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		Page 1			Page 3
1	NOTE TO READER: The	e are many "inaudible" and	1	Q.	Mr. Haynes, just to follow up on that in
2	"unintelligible" portions in	this transcript due to	2		terms of including the off-island sales,
3	poor recording which was r	ot recorded by Discoveries	3		that figure that we looked at, Hydro's
4	Unlimited Inc.	•	4		contribution to that overall amount, I think
5	CHAIR:		5		it was 6.8 cents a kilowatt hour, and so
6		ng, everybody. We're having some	6		that's included in that figure, is that –
7		ies, my apologies. I	7	MR. HAYNE	<b>o</b> ,
8		nat the rest of the transcripts	8	A.	The best person to answer those questions
9		n now. They're being delivered	9		and get into that detail would be Mr. Fagan,
10	•	ole of minutes. Sarah and Renee	10		who would be more familiar on the mechanics
11		while we're going to start.	11		of the structure than I.
12		nary issue, Mr. Templeton?	12	MR. O'BRIE	
13	MR. TEMPLETON:	iary issue, ivir. reimpreton:	13	Q.	And in terms of responding to the
14		orrect. Thank you, Madam	14	Q.	undertaking, have you seen any documentation
15		preliminary issue, we are now	15		to confirm your answer?
16		ddress undertaking #1. The	16	MR. HAYNE	•
1	1 1		17		Other than discussion with the folks who
17		ranscript of April 16, 2018,	ı	A.	
18		35, line 6. This undertaking	18		actually participated in the analysis that
19		context of the questions from	19		that basically was included, the load
20		around IC-NLH-122 Attachment 1,	20		forecast that was used for project sanction
21		ally the table on page 20. Page	21		included, obviously, Hydro's load forecast,
22		of the transcript, Mr. O'Brien	22		which is obviously the reason the project
23		tness, "Do these rates, to the	23		was undertaken, that energy below that
24		knowledge, account for revenues	24		sanction load forecast line is Hydro's. So
25	from off-isla	nd sales?". The answer came at	25		that analysis did include the sale of those
		Page 2			Page 4
1		At line 22, the answer,	1		unused energy that Hydro has rights to at
2		mitigated rates. I don't think	2		the export price, which I don't know that
3	they account	for off-island sales". Page	3		either, Mr. Fagan may be able to answer that
4	36, line 1, and	swer, "I actually don't know".	4		if that was an issue.
5	The undertak	ing was asked at Page 36, line	5	MR. O'BRIE	N:
6	3, question, "	If you can check on that and	6	Q.	I'll ask Mr. Fagan those questions. Before
7	confirm with	us". So, Mr. Haynes, have you	7		we leave that, we were talking yesterday
8		pportunity to check on that?	8		about the restructure. I don't think I
9	MR. HAYNES:		9		asked you about the off-island purchases
10	A. Yes, and they	do include the off-island	10		account, and find out whether or not you
11		y that Hydro owns. I think I	11		felt – I asked a question about the optics
12		erred to what I call a	12		of it and whether you thought there might be
13	•	oad forecast", which basically	13		some concern about the optics of that
14		forecast when the project was	14		particular account collecting O & M costs
15		nd energy below that line is	15		prior to Muskrat Falls Project being fully
16		gy, but our load forecast has	16		commissioned. I wonder from an engineering
17		so that energy is included in	17		perspective, once the LIL is energized and
18		The sales of those energy at	18		in operation, would you consider the project
19	market rates i		19		near commissioning?
20	MR. TEMPLETON:	o moradod.	20	MR. HAYNE	· ·
21	Q. Thank you.		21	A.	I would consider – I mean, the project has
22	CHAIR:		22	л.	three key components; obviously, the Muskrat
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$		you, Mr. O'Brien.	23		Falls Generating Station, the Labrador
1 4.)	•	you, MI. O DITCH.	<sup>23</sup>		
	MB HYAMEC CDUCCE	YAMINATION BY MD O'RDIEN.	2/		Transmission Assets and the Lahrador Island
24 25	MR. HAYNES – CROSS-E MR. O'BRIEN:	XAMINATION BY MR. O'BRIEN:	24 25		Transmission Assets, and the Labrador Island Link, and the lines aspect are, you know,

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1	near commissioning, yes, the lines are in	1	a cost-effective structure. Did you look at
2	service. They are used and useful, they're	2	any – do any analysis as to whether or not
3	delivering power to Muskrat Falls and onto	3	this structure was more cost effective than
4	the island and they are in service.	4	the matrix structure?
5	MR. O'BRIEN:	5	MR. HAYNES:
6	Q. Okay, let's go back to where we left off in	6	A. No, we didn't. Basically, we took a fair
7	terms of the restructure. I think the last	7	bit of instruction, if you will, from the
8	we were talking about was this consultation	8	reports and reviews that were done on the
9	<del>_</del>	9	Prudency Review and the analysis done by the
10	process, but we'll talk about the process	10	
1	itself. I wonder whether or not you		consultants. There are things that we do
11	considered any alternatives to the present	11	share with Nalcor. So from the point of
12	restructure or present organization you've	12	view of totally standalone, we share some –
13	got now when you moved from the matrix	13	our supply chain folks do the purchasing for
14	organization to the present one, were there	14	the organization as a whole. So we haven't
15	any alternative structures looked at?	15	unbundled, if you will, or taken things
16	MR. HAYNES:	16	apart to that degree. There are things that
17	A. No, not really. Obviously, we looked at	17	make sense. That's one area, in particular,
18	organizational charts from other utilities,	18	where it doesn't make sense to establish two
19	but basically from the point of view of the	19	completely separate purchasing service
20	geography that we operate under, and the	20	supply chain groups. We've also retained
21	large investment in generation and the	21	some HR administrative, department payroll
22	uniqueness of that versus transmission and	22	and so on, we don't need to have two payroll
23	distribution, we think that what we put	23	groups. So we haven't blindly, if you will,
24	forward from the point of view of structure	24	just separated everything totally and
25	covers off, you know, a structure that	25	absolutely. There are areas where there's
	Page 6		Page 8
1	affords a high level of scrutiny and	1	inter-company operations, and I know that
2	responsibility for the respective assets.	2	the IT, there's an IT side, or the corporate
3	So the wires (phonetic) is in one area along	3	business systems is one for discussion, but
4	with the NLSO, which operate the	4	that too, it doesn't make sense to go out
5	transmission system and the energy control	5	and rebuild all those things independently
6	centre. All the generation is under AVP	6	when there are savings from that
7		7	
/	responsible, finance and - corporate and	0	perspective. So it's not absolute and
8	financial related services, risk, insurance,	8	total. There are parts where it makes sense
9	and commercial things and so on are under	9	to continue sharing services.
10	finance, and the regulatory—and corporate	10	MR. O'BRIEN:
11	service has picked up regulatory, which is	11	Q. So there was no cost analysis done?
12	extremely important, obviously, to a	12	MR. HAYNES:
13	regulated utility, and we've included in	13	A. No. We did try to make sure that we were
14	there HR, Communications, Safety, and	14	not increasing cost to any significant
15	Environment. We think what we have put	15	extent when we actually separated from that
16	forward is pretty appropriate for our	16	perspective.
17	company.	17	MR. O'BRIEN:
18	MR. O'BRIEN:	18	Q. Did you look at whether or not new bodies
19	Q. Were any feasibility reports produced on the	19	were going to be required or new FTE's were
20	change in structure?	20	going to be required?
21	MR. HAYNES:	21	MR. HAYNES:
22	A. No.	22	A. We tried to hold a – I don't recall specific
1 22			
23	MR. O'BRIEN:	23	numbers, but we tried to hold the total
		23 24	numbers, but we tried to hold the total number of FTE's that were allocated one way
23	MR. O'BRIEN: Q. During the last General Rate Application, we talked about matrix organizations, how it is		· · · · · · · · · · · · · · · · · · ·

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1		roughly the same. There were some changes,	1	Q.	So why wouldn't you at that time have done a
2		obviously, because we done some things, but	2		detailed analysis if you're going to do a
3		we think they're reasonable investments, if	3		restructuring of the cost benefit to
4		you will, that will bring value to the	4		customers, you know, if the rates are going
5		shareholder – I'm sorry, value to the	5		to be increasing in the future?
6		customer at the end of the day by our	6	MR. HAYNE	· ·
7		attention to our mandate.	7	A.	We are looking at – currently we are looking
8	MR. O'BRIE	EN:	8		at opportunities to save money. We've had a
9	Q.	Have you had any assessment really as to how	9		productivity improvement group set up, no
10		it worked out in terms of the cost-effective	10		additional hires, by the way, and we are
11		basis, did it cost you more in this scenario	11		looking at all things to actually reduce our
12		than it would have?	12		total cost of operation. So that doesn't
13	MR. HAYNI		13		stop. We're continually at that, we're
14	A.	I don't know the numbers offhand, but I know	14		looking for efficiencies in everything we
15		Ms. Dalley was key and instrumental in	15		do. We have renewed our efforts in that area
16		actually going down through and separating	16		and we're focused on it quite a bit,
17		the different departments, with input	17		actually.
18		obviously from everybody, and review and	18	MR. O'BRIE	•
19		approval by the team at large. She may have	19	Q.	I wonder if we could look at some of the
20		those numbers.	20		primary changes. We talked about some of
21	MR. O'BRIE		21		that yesterday. Can we bring up Page 323 of
22	Q.	And in terms of justifying the	22		the evidence, and at lines 6 to 16, here we
23		reorganization as being cost effective,	23		go, there's some primary changes mentioned
24		would Ms. Dalley be the one to talk to about	24		so the creation of a separate and dedicated
25		that?	25		executive team, we talked about that, and
		Page 10			Page 12
1	MR. HAYN	ES:	1		that's something I understand was a
2	A.	She could speak to any incremental cost	2		recommendation from Liberty, is that right?
3		associated with that.	3	MR. HAYNE	
4	MR. O'BRII	EN:	4	A.	I think the recommendation from Liberty was
5	Q.	Okay.	5		the fact there was not enough focus – in a
6	MR. HAYN	ES:	6		nutshell, there was not enough focus on
7	A.	And, obviously, you know, as you go through	7		Hydro specific issues. My read of it was
8		and as years go by, we made a cut at - in	8		that, basically, they felt that it was a bit
9		reorganizing the system, took all our	9		diluted in the overall Nalcor structure and
10		engineering as self contained and so on, so	10		objectives.
11		whether we're 100 percent, you're never 100	11	MR. O'BRIE	N:
12		percent, there's always an evolution, but	12	Q.	"Reduced reliance on parent company for
13		there's no major changes foreseen in the	13	`	services that were previously shared among
14		future.	14		Nalcor business lines". We talked about
15	MR. O'BRII	EN:	15		that. There's still some areas where
16	Q.	So at the time you were doing the	16		there's going to be some shared services?
17		restructuring, you would have had visibility	17	MR. HAYNE	ES:
18		into what we were talking about yesterday in	18	A.	Yes, where it doesn't make sense to have,
19		terms of increased rates coming down	19		for instance, two supply chain departments
20		probably in a few years just with the	20		or two groups of people administering
21		Muskrat Falls Project being –	21		payroll systems and things like that.
			22	MR. O'BRIE	
22	MR. HAYN	ES.		MIK. O DIGIL	4.1.
	MR. HAYN A.	Well, we certainly knew that was coming,	23	Q.	How about the executive team, what level is
22			1		
22 23		Well, we certainly knew that was coming, yes.	23		How about the executive team, what level is

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1	MR. HAYNE	ES:	1	MR. O'BRIEN:	
2	A.	I'm sorry, can you repeat?	2	Q. So the individual in your position price	or
3	MR. O'BRIE		3	would have been Mr. Henderson, is the	
4	Q.	The executive team now at Hydro, to what	4	right? He wasn't the president, but he	
5	٧.	level do they provide services to other	5	vice-president of Hydro under the ma	
6		lines of Nalcor?	6	organization?	, LIIA
7	MR. HAYNE		7	MR. HAYNES:	
8	A.	Very little. As I said, supply chain spends	8	A. Yes. Actually, in 2016, the president	of
9	A.	some time, obviously, servicing requests for	9	Hydro was John MacIsaac.	01
10			10	MR. O'BRIEN:	
		Churchill Falls or whatever, but from the			:
11		point of view of the executive team, very	11	Q. Oh, that's right. So Mr. MacIsaac can	me m,
12		little time is spent on – very little, if	12	I believe, in 2016 – late 2015, is that	
13		any. I would suggest there's probably some	13	right?	
14		by Mr. Young because we're still dealing	14	MR. HAYNES:	
15		with TTO, The Transmission of Operations. We	15	A. I'm not exactly sure.	
16		still, obviously, have interfaces with	16	MR. O'BRIEN:	
17		Nalcor in trying to make sure that all these	17	Q. And in terms of Mr. MacIsaac, would	
18		things come into service and are reliable	18	been providing any services to Nalcon	
19		and meet our needs, but it's extremely	19	that something that changed when yo	u came in
20		limited.	20	to take over for him?	
21	MR. O'BRIE	N:	21	MR. HAYNES:	
22	Q.	I can probably show you. There's an RFI	22	A. I can't speak to that, but I doubt it ver	·y
23		there, PUB-NLH-28, if we can bring that up.	23	much. His role – basically, the presid	lent's
24		There's an assessment, I think, of hours.	24	role was created and, basically, the fo	cus
25		There's four members of the Hydro Executive	25	was on Hydro, sobut I can't speak to	o how
		Page 14			Page 16
1		Team. Scroll down there. Yes, there we go,	1	much time he spent.	
2		we have a chart there. So the hours charged	2	MR. O'BRIEN:	
3		to Nalcor in 2016/2017. I don't see you on	3	Q. And that would make sense because t	there's no
4		that list, so would you have provided any	4	line for president there.	
5		services yourself?	5	MR. HAYNES:	
6	MR. HAYNI	•	6	A. No.	
7	A.	None, zero.	7	MR. O'BRIEN:	
8	MR. O'BRIE	· ·	8	Q. And those hours that we're looking a	t here
9	Q.	Okay.	9	in terms of 2016 and 2017, do you ex	
10	MR. HAYNI		10	those hours to continue similar to tha	
11	A.	I'll be quite frank, I attend – there's	11	amount or would you see them –	•
12	л.	obviously a meeting with the CEO and the	12	MR. HAYNES:	
13		other VPs, but that's, basically, what's on	13	A. I think over time, the general counsel	and
14		the go. There's no contribution, if you	13	corporate secretary will diminish ove	
15		will, per se to Nalcor. It's strictly	15	as the TTO gets legs and things actua	
16		• •	16		•
	MR. O'BRIE	Hydro.	17	start to get being put into operation.	1.01
17				the vice-president of Production, the	hv
18	Q.	And that's different from the previous	18	Exploit assets are not actually owned	
19	MD HANN	matrix organization?	19	Hydro, so that is an unregulated entity	
20	MR. HAYNI		20	we basically manage those things, so	
21	A.	It was a lot more diluted in the previous	21	respect to her position, those hours w	
22		matrix organization because, basically,	22	continue while those assets are opera	ied and
23		there were, you know, VPs in Nalcor who had	23	maintained by our staff.	
24		responsibilities for Hydro, and that has	24	MR. O'BRIEN:	
25		since changed.	25	Q. That's Production, vice-president of	

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1	Production?	1	Q. I wonder if we could bring back Page 323
2	MR. HAYNES:	2	again. That's the transfer of certain
3	A. Production, yes, because the Exploits assets	3	functions to provide the services. So
4	are not – we have a contract, basically, to	4	you're looking at supply chain and some
1	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • • • • • • • • • • •
$\int_{0}^{2}$	purchase that power from the Exploits	5	human resources, safety and information
6	assets, if you will, and so that is an	6	services, is that right?
7	unregulated activity, but it's not – in the	7	A. Supply chain, some human resources in the
8	sense of a matrix organization and Nalcor	8	sense of payroll administration, things like
9	sort of thing, those things are used and	9	that, and there are still some things from a
10	useful and all ratepayers get good value for	10	Nalcor perspective where we have – you know,
11	that energy that's produced.	11	there are people who look at compensation
12	MR. O'BRIEN:	12	practices and so on. We don't see actually
13	Q. And the amount of hours spent there for the	13	having our own dedicated person. We think
14	vice-president of Production, and I can ask	14	that's a valid shared service with Nalcor.
15	the vice-president of Production this, but	15	It's not cost effective for us to go out and
16	would you expect that to be about similar,	16	have a fulltime employee or two or whatever
	* *	17	1 *
17	in any event?	1	doing those specific things, so we think
18	MR. HAYNES:	18	those are legitimate things that Nalcor
19	A. I would expect it would be about similar,	19	would continue to provide information and
20	yes. You know, maybe a little bit more, and	20	guidance to us or are shared, but,
21	the other folks that are providing a little	21	obviously, with a lot of input from Hydro as
22	bit more oversight. Jennifer, obviously, is	22	well. They can't ignore the fact that
23	the VP. There are other people within the	23	there's 800 or 900 employees, so they have
24	organization who spend some time, but it's	24	to take our input, but having specific
25	not excessive.	25	people dedicated to that for a company of a
			people dedicated to that for a company of a
	Page 18		1 1
	Page 18 MR. O'BRIEN:	1	Page 20
1	MR. O'BRIEN:	1 2	Page 20 total of 1500 people, that's not cost
1 2	MR. O'BRIEN: Q. And senior legal counsel there, there's a	1 2 3	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular
1 2 3	MR. O'BRIEN:  Q. And senior legal counsel there, there's a big dip there. Would you expect some	3	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular department can help the whole company with
1 2 3 4	MR. O'BRIEN:  Q. And senior legal counsel there, there's a big dip there. Would you expect some services from the senior legal counsel?	3 4	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular department can help the whole company with that, the whole Nalcor Group, I should say.
1 2 3 4 5	MR. O'BRIEN:  Q. And senior legal counsel there, there's a big dip there. Would you expect some services from the senior legal counsel?  MR. HAYNES:	3 4 5	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular department can help the whole company with that, the whole Nalcor Group, I should say.  MR. O'BRIEN:
1 2 3 4	MR. O'BRIEN:  Q. And senior legal counsel there, there's a big dip there. Would you expect some services from the senior legal counsel?  MR. HAYNES:  A. Until we get to the full utilization and	3 4	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular department can help the whole company with that, the whole Nalcor Group, I should say. MR. O'BRIEN: Q. And who at Hydro is responsible for
1 2 3 4 5 6 7	MR. O'BRIEN:  Q. And senior legal counsel there, there's a big dip there. Would you expect some services from the senior legal counsel?  MR. HAYNES:  A. Until we get to the full utilization and implementation of Muskrat Falls, there's a	3 4 5 6 7	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular department can help the whole company with that, the whole Nalcor Group, I should say.  MR. O'BRIEN: Q. And who at Hydro is responsible for providing that input in terms of transfer of
1 2 3 4 5 6 7 8	MR. O'BRIEN:  Q. And senior legal counsel there, there's a big dip there. Would you expect some services from the senior legal counsel?  MR. HAYNES:  A. Until we get to the full utilization and implementation of Muskrat Falls, there's a transitional operations aspect of Nalcor,	3 4 5 6 7 8	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular department can help the whole company with that, the whole Nalcor Group, I should say. MR. O'BRIEN: Q. And who at Hydro is responsible for providing that input in terms of transfer of any functions or -
1 2 3 4 5 6 7 8 9	MR. O'BRIEN:  Q. And senior legal counsel there, there's a big dip there. Would you expect some services from the senior legal counsel?  MR. HAYNES:  A. Until we get to the full utilization and implementation of Muskrat Falls, there's a transitional operations aspect of Nalcor, we're participating in – there are things	3 4 5 6 7 8 9	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular department can help the whole company with that, the whole Nalcor Group, I should say.  MR. O'BRIEN: Q. And who at Hydro is responsible for providing that input in terms of transfer of any functions or -  MR. HAYNES:
1 2 3 4 5 6 7 8 9	MR. O'BRIEN:  Q. And senior legal counsel there, there's a big dip there. Would you expect some services from the senior legal counsel?  MR. HAYNES:  A. Until we get to the full utilization and implementation of Muskrat Falls, there's a transitional operations aspect of Nalcor, we're participating in – there are things that are ongoing that will require some more	3 4 5 6 7 8 9 10	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular department can help the whole company with that, the whole Nalcor Group, I should say.  MR. O'BRIEN: Q. And who at Hydro is responsible for providing that input in terms of transfer of any functions or -  MR. HAYNES: A. Well, from the point of view on the HR, the
1 2 3 4 5 6 7 8 9 10 11	MR. O'BRIEN:  Q. And senior legal counsel there, there's a big dip there. Would you expect some services from the senior legal counsel?  MR. HAYNES:  A. Until we get to the full utilization and implementation of Muskrat Falls, there's a transitional operations aspect of Nalcor, we're participating in – there are things that are ongoing that will require some more time. I don't have an estimate of how much,	3 4 5 6 7 8 9 10	Page 20 total of 1500 people, that's not cost effective, so one person, or that particular department can help the whole company with that, the whole Nalcor Group, I should say.  MR. O'BRIEN: Q. And who at Hydro is responsible for providing that input in terms of transfer of any functions or -  MR. HAYNES: A. Well, from the point of view on the HR, the Environment, the Legal, that would be Ms.
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		Page 21			Page 23
1	Q.	And do you undergo an analysis every year	1		the bills, if you will, to ensure that
2		just to ensure that those guidelines are	2		they're accurate and right.
3		cost effective?	3	MR. O'BRI	
4	MR. HAYNI		4	Q.	And you'd agree that's support that Hydro
5	A.	Other than our current – as I said, we're	5	Q.	would do in terms of a regulated entity to
6	Λ.	looking at all our costs. We're examining	6		maintain control over those costs?
7		those. We are challenging them in various	7	MR. HAYN	
1			ı		Absolutely.
8		areas of whether these costs are legitimate	8	A. MR. O'BRII	
9		and valid, and we will have those	9		
10		discussions ongoing. Those are ongoing	10	Q.	How about – when we talked about the
11		things where we will question the	11		structure, I understand, as you mentioned
12		transferred in charges and reveal them. We	12		yesterday, that there remains a chief
13		spend some time at that, and we will spend	13		executive officer of Hydro, who is Mr.
14		more. We want to ensure that we are paying			Marshall?
15		for what we should be paying for, and	15	MR. HAYN	
16		nothing more.	16	A.	Yes.
17	MR. O'BRIE		17	MR. O'BRI	
18	Q.	In terms of the logic behind transfer of	18	Q.	who is also the chief executive officer of
19		services to Nalcor lines, is it better I ask	19		Nalcor, is that right?
20		Ms. Dalley about those?	20	MR. HAYN	ES:
21	MR. HAYNI	ES:	21	A.	That's correct.
22	A.	Yes.	22	MR. O'BRI	EN:
23	MR. O'BRIE	EN:	23	Q.	What sort of oversight does that position in
24	Q.	If you'd move down to line 14 to 16 there,	24		Hydro provide at this point in time?
25		"Hydro now incurs a fee for these services	25	MR. HAYN	ES:
		Page 22			Page 24
1		from Nalcor, but maintains control and	1	A.	I can't speak for Mr. Marshall, but Mr.
2		accountability for all the services and cost	2		Marshall's primary focus is obviously on the
3		from Hydro". Can you explain that?	3		project, getting it in and getting it done,
4	MR. HAYNE		4		and finishing the project in a reliable and
5	Α.	We don't blindly accept the transferred in	5		cost-effective way as possible. The level
6		cost, and, basically, as I mentioned, they	6		of oversight for Hydro, he is the chief
7		are challenged and they're reviewed, and we	7		executive officer. We do have meetings, we
8		do review all those numbers, and at the end	8		do discuss things, but, basically, a lot of
9		of the day we are accountable for those	9		it is just allocated down and to manage it
10		costs, so it's not a bill that's sent in and	10		from the president's position.
11		blindly signed. They're reviewed,	11	MR. O'BRIE	
12		scrutinized, and we would go down through	12	Q.	In the last hearing we talked about this
13		and say, yes, this is a reasonable cost or	13	Q.	idea of a single point of accountability for
14		acceptable cost.	14		the company. Would that be you?
15	MR. O'BRIE	•	15	MR. HAYNE	1 0
16			16	MR. HATNE A.	
1	Q. MR. HAYNE	How do you maintain control of that?		MR. O'BRIE	For Hydro, yes.
17			17		
18	A.	That's done by the various departments. When	18	Q. MD HAVNE	For Hydro, as opposed to Mr. Marshall?
19		they come in, if it's a cost that comes in	19	MR. HAYNE	
20		from the point of view of these fees, they	20	A.	Yes, from a Nalcor perspective, yes. Hydro,
21		are reviewed by the respective department.	21		anything Hydro would basically come back to
22		If it's Safety or Environment, it goes	22	MD O'DDIE	me.
1.1		through Ms. Dalley's folks. Accounting	23	MR. O'BRIE	
23		11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	^ 4	^	
23 24 25		actually provides a very high level of input and review of all those costs, picking apart	24 25	Q.	You say from a Nalcor perspective. How about from a customer perspective?

MR HAYNES:   2	1 MR. HAYNES: 2 A. The same thing. The services that we – all the customers that we have, whether they're 1 Newfoundland Power or our own rural customers that basically all comes back to 1 Hydro, there's very little, if any, actually engagement with Nalcor folks on those issues. I would venture to say none.  9 MR. O'BRIEN: 10 Q. What level of interaction do you have with the CEO on an annual basis? 11 MR. HAYNES: 12 MR. HAYNES: 13 A. We have regular meetings, and if there's anything that's coming up from the point of view where t think that he needs, I'll call it a heads up, or just give him some forewarning. Obviously, we don't file a rate application without letting the CEO has signally, it is elicitated if there's things from that perspective or if there's things from that perspective or if there's uncertainty from that of view of day-to-day dialogue and discussion, there's very little. 2 MR. O'BRIEN: 2 Q. When you say "regular meetings", are these kind of monthly meetings? 3 MR. HAYNES: 4 MR. O'BRIEN: 2 Q. When you say "regular meetings", are these kind of monthly meetings? 4 MR. O'BRIEN: 5 A. More or less monthly meetings with the executive—actually, the senior folks in Nalcor, what they call executive vice-presidents. 9 MR. O'BRIEN: 10 Q. Are these meetings more focused on general operations? 11 transmission operation, or are they focused on general operations? 12 MR. HAYNES: 4 A. No, they're just general business meetings. 5 MR. O'BRIEN: 13 MR. HAYNES: 4 A. No, they're just general business meetings. 5 MR. O'BRIEN: 14 A. No, they're just general business meetings. 15 what's on the go in each different division. 16 You know, what is the challenges we are going to have or things that are upcoming. 18 MR. O'BRIEN: 19 Q. Do you take much instruction from Mr. 20 Do you take much instruction from Mr. 21 MR. O'BRIEN: 22 MR. HAYNES: 23 MR. HAYNES: 24 MR. O'BRIEN: 25 MR. HAYNES: 26 MR. O'BRIEN: 27 MR. HAYNES: 28 MR. O'BRIEN: 29 MR. O'BRIEN: 30 MR. O'BRIEN: 31 MR. HAYNES: 32 MR. HAYNES: 33 MR. HAYNES: 34 MR. O'BRI	Apm	17, 2018				NL Hydro 2017 GRA
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		Page 29			Page 31
1		There's some key dates, and the last date	1		that you have for the new organization with
2		there in that summary of key dates is	2		respect to operations management, financial
3		Nalcor's submission. I'm just wondering is	3		management, performance accountability, and
4		that a pro forma thing or is it that Nalcor	4		regulatory oversight. Do you have a lay of
5		has the ability to –	5		the land now as to whether or not that's
6	MR. HAYN	•	6		been effective in any of those areas?
7	A.	I would suggest that those are just	7	MR. HAYNE	
8		received, that the information is put there	8	A.	Yeah, I think it is. We had objectives
9		for consolidation to the Nalcor budget. I do	9		regarding reliability, we had objectives
10		not recall Nalco coming back to look for	10		regarding financial performance with respect
11		changes in Hydro's budget. There's	11		to operating budgets, and there's always
12		discussion, obviously, with other folks	12		work to do, it requires a lot of attention,
13		there from the point of view of our cost,	13		and we're continuing and doing more, but we
14		but it's Hydro's budget, we own it and are	14		do have financial targets. As I said, we
15		accountable.	15		have reliability targets, and we are focused
16	MR. O'BRIE		16		on delivering those, and those are reviewed
17	Q.	When you say there's discussion, is it open	17		basically monthly.
18	ζ.	to Nalcor to suggest changes to Hydro's	18	MR. O'BRIE	3
19		budget at that stage?	19	Q.	You believe the new organization is
20	MR. HAYN		20	٧.	assisting in that regard in reviewing those?
21	A.	They certainly could, but I don't recall	21	MR. HAYNE	
22	11.	anything that has actually come up from that	22	A.	Yes, I do, I do. I do honestly believe that
23		perspective, but at the end of the day the	23	71.	there's a lot more singular focus on folks
24		Hydro Board of Directors do approve the	24		on their budget. It's stuff that they can
25		budget.	25		control. There's very little, if you will,
<del>  -</del>		Page 30			Page 32
1	MR. O'BRIE		1		transferred in charges, and that is their
2	Q.	So in terms of the overall structure now	2		focus, along with reliability, obviously,
3	ζ.	that you have that you're operating under, I	3		and safety, the normal things we have to do.
4		can ask Ms. Dalley, I guess, in terms of	4	MR. O'BRIE	
5		whether that's reduced costs, can I, or is	5	Q.	I think the evidence talked about sort of
6		that something you can -	6	Q.	looking to be operationally independent from
7	MR. HAYN		7		Nalcor. Do you feel you've been successful
8	A.	Well, you can ask Ms. Dalley, but from the	8		in reaching that goal?
	11.	point of view of reduced cost, our goal was	9	MR. HAYNE	~ ~
10		to be cost neutral, but we have had some – I	10	A.	Yes, I do.
11		do not remember any monetary increase, but	11	MR. O'BRIE	· ·
12		we have had some changes, obviously, but	12	Q.	Have you identified any negative impacts
13		we're also looking for anything that we can	13	Ψ.	from the reorganization?
14		do from within from the point of view of,	14	MR. HAYNE	
1 17		so hom within hom the point of view of,			
15			15	А	NO I don I think there are any negative
15 16		you know, vacant positions or retirements or	15 16	A.	No, I don't think there are any negative impacts. Basically, you know all the
16		you know, vacant positions or retirements or whatever to smooth that transition to be as	16	A.	impacts. Basically, you know, all the
16 17	MR O'RRII	you know, vacant positions or retirements or whatever to smooth that transition to be as neutral as we possibly can.	16 17	A.	impacts. Basically, you know, all the departments and all the folks are focused on
16 17 18	MR. O'BRIE	you know, vacant positions or retirements or whatever to smooth that transition to be as neutral as we possibly can.  EN:	16 17 18	A.	impacts. Basically, you know, all the departments and all the folks are focused on Hydro assets. We do, obviously, still have
16 17 18 19	MR. O'BRIE Q.	you know, vacant positions or retirements or whatever to smooth that transition to be as neutral as we possibly can.  EN:  Are there performance measures in place to	16 17 18 19	A.	impacts. Basically, you know, all the departments and all the folks are focused on Hydro assets. We do, obviously, still have some commissioning things that we're doing
16 17 18 19 20		you know, vacant positions or retirements or whatever to smooth that transition to be as neutral as we possibly can.  EN:  Are there performance measures in place to evaluate the effectiveness of the new	16 17 18 19 20	A.	impacts. Basically, you know, all the departments and all the folks are focused on Hydro assets. We do, obviously, still have some commissioning things that we're doing in cooperation with Nalcor, such as Soldiers
16 17 18 19 20 21	Q.	you know, vacant positions or retirements or whatever to smooth that transition to be as neutral as we possibly can.  EN:  Are there performance measures in place to evaluate the effectiveness of the new organization plan?	16 17 18 19 20 21	A.	impacts. Basically, you know, all the departments and all the folks are focused on Hydro assets. We do, obviously, still have some commissioning things that we're doing in cooperation with Nalcor, such as Soldiers Pond. Soldiers Pond, as I mentioned
16 17 18 19 20 21 22	Q. MR. HAYNI	you know, vacant positions or retirements or whatever to smooth that transition to be as neutral as we possibly can.  EN:  Are there performance measures in place to evaluate the effectiveness of the new organization plan?  ES:	16 17 18 19 20 21 22	A.	impacts. Basically, you know, all the departments and all the folks are focused on Hydro assets. We do, obviously, still have some commissioning things that we're doing in cooperation with Nalcor, such as Soldiers Pond. Soldiers Pond, as I mentioned yesterday, is the biggest station on the
16 17 18 19 20 21 22 23	Q. MR. HAYNI A.	you know, vacant positions or retirements or whatever to smooth that transition to be as neutral as we possibly can.  EN:  Are there performance measures in place to evaluate the effectiveness of the new organization plan?  ES:  Not specifically, no.	16 17 18 19 20 21 22 23	A.	impacts. Basically, you know, all the departments and all the folks are focused on Hydro assets. We do, obviously, still have some commissioning things that we're doing in cooperation with Nalcor, such as Soldiers Pond. Soldiers Pond, as I mentioned yesterday, is the biggest station on the island, actually, and basically eight of our
16 17 18 19 20 21 22	Q. MR. HAYNI	you know, vacant positions or retirements or whatever to smooth that transition to be as neutral as we possibly can.  EN:  Are there performance measures in place to evaluate the effectiveness of the new organization plan?  ES:  Not specifically, no.	16 17 18 19 20 21 22	A.	impacts. Basically, you know, all the departments and all the folks are focused on Hydro assets. We do, obviously, still have some commissioning things that we're doing in cooperation with Nalcor, such as Soldiers Pond. Soldiers Pond, as I mentioned yesterday, is the biggest station on the

April	17, 2018		NL Hydro 2017 GRA
	Page 33		Page 35
1	in with respect to commissioning and so on,	1	Q. They were not.
2	because they have all new staff. We have	2	GREENE, Q.C.
3	some seasoned staff who have been familiar	3	Q. The 2017 actuals we can file as an
4	with the commissioning process, and we think	4	information item?
5	that brings value, but that would diminish,	5	MR. YOUNG:
6	obviously, as the assets are in service and	6	Q. That would be my suggestion. The intent
7	they have their own staff up to speed to	7	when we filed these, we knew these would be
8	maintain and operate those assets.	8	relevant to the hearing and we can file them
9	MR. O'BRIEN:	9	under that cover, so absolutely, we can file
10	Q. Would you see that, though, as a negative	10	them, an information piece would be good.
11	impact from the reorganization at all?	11	MR. O'BRIEN:
12	MR. HAYNES:	12	
		ı	Q. From what I can see, Mr. Young, I think
13	A. No, I don't think so. I think that's just	13	they're just updated tables from the
14	business as usual. It's also a transition	14	evidence, is that fair?
15	until all these assets are in service, and	15	GREENE, Q.C.:
16	Soldiers Pond, I would just repeat, was put	16	Q. They weren't filed as a revision, so I guess
17	into service, there's very little issues and	17	we will call them Information Item #1, 2017
18	it's successful, and I think it's a	18	actual financial information from Hydro.
19	commendation to Nalcor and to Hydro working	19	MR. O'BRIEN:
20	together to bring those on line last fall	20	Q. Okay, so we looked at page 23 of 118, so
21	and have all the lines terminated in there	21	that's after the cover letter, I guess.
22	without any major issues at all.	22	This is Table 317 updated Hydro's operating
23	MR. O'BRIEN:	23	costs, 2015 test year, and the 2019 test
24	Q. I think, Mr. Haynes, I'm going to jump now	24	year. Before we get into any detailed
25	to operating cost and I'm going to ask you	25	questions about this, I do have some general
	Page 34		Page 36
1	some questions about, so I'm going to shift	1	questions about how operating costs are set
2	focus here. I wonder if we can bring up the	2	and managed. I presume that you agree with
3	2017 actuals. We received a batch of	3	me that the context for a rate case, it's
4	additional information on Friday past. Go	4	the utility's obligation to show that the
5	to page 23 of 118.	5	costs included in the rates are reasonable
6	GREENE, Q.C.:	6	and consistent with least cost principles?
7	Q. Excuse me, Madam Chair, those documents, I	ı	MR. HAYNES:
8	don't have them (inaudible).	8	A. Of course.
9	MR. O'BRIEN:	9	MR. O'BRIEN:
10		10	
1		l .	Q. And would you agree with me that a utility
11	to put those on the record.	11	is also obligated to show that it manages
12	CHAIR:	12	its costs in a way consistent with least
13	Q. If you're going to refer to them –	13	cost principles?
14	MR. O'BRIEN:	14	MR. HAYNES:
15	Q. I am.	15	A. Yes.
16	CHAIR:	16	MR. O'BRIEN:
17	Q. For the purposes of the GRA, they should be	17	Q. So are you – I guess, we talked about single
18	in the record, yes.	18	point of accountability. Are you the one
19	MR. O'BRIEN:	19	that's ultimately responsible for Hydro's
20	Q. How do you want to deal with that? These	20	costs?
21	are mostly updated pages, I think, from all	21	MR. HAYNES:
22	the –	22	A. I am, but if there are particulars in the
23	GREENE, Q.C.:	23	various divisions of Hydro, the best folks
24	Q. And they weren't filed in the revision -	24	to answer those costs would be the VPs
25	MR. O'BRIEN:	25	responsible, because, basically, my goal and

Page 37 Page 39 my directions is that they each manage their 1 our storm response and so on based on past 1 2 cost down to the budget as best they can, 2 practice. If you had a really rough winter, 3 and if there are things that are going over 3 we will be off the mark a little bit, or if 4 budget, look for other ways to mitigate that 4 we have some – you know, if we have, for 5 if possible. It's not always possible, but 5 instance, no, fuel is not in here, so that's 6 that's the direction. 6 not quite the same, but if we had lower 7 MR. O'BRIEN: 7 water and we burn more fuel, those all 8 Are you able to speak to costs on this 8 affect the end of the day. In that case, it Q. 9 higher level, as opposed to -9 would be the rate stabilization plan, 10 MR. HAYNES: 10 obviously for--primarily. So that's the way 11 At a high level, I can briefly, yes, but if 11 – generally, that's the way it's done. A. 12 you're going to go down in any detail, I 12 MR. O'BRIEN: 13 would suggest that the VPs responsible would 13 And how are you involved in that process, to Q. 14 be best equipped to answer that. 14 what extent? 15 MR. O'BRIEN: 15 MR. HAYNES: 16 0. Okay, so if I'm getting too far into a 16 Α. In the reviews, they start the process in their departments. They come up, they 17 detail, just let me know. 17 MR. HAYNES: 18 18 consolidate, we sit down as a group and we 19 I will. 19 go down through. We look for measures that Α. MR. O'BRIEN: we can actually go back and trim cost or, 20 20 21 And we'll go down there. Okay, so when you 21 you know, fine tune things, or ask the 0. 22 questions if we're doing the right work at talk about budgets, just take me through how 22 23 the budgets get set on a general basis and the right time. I have asked the folks on 23 24 what's your involvement is in that process? 24 operating and capital from the point of view 25 MR. HAYNES: 25 that I want them to be doing the things that Page 38 Page 40 1 A. So from the point of view of the budget, 1 basically bring value to the customer in the 2 budgets instructions are sent out and they 2 sense of we're not taking too much risk, 3 look at, obviously, our work plan for the 3 that we're not actually being too risk 4 upcoming year, particularly on the operating 4 aversive. I'd like for them to have a 5 5 side, because there are operating projects balance of all that there and put in the 6 as well as capital projects, and they go 6 dollars that we think it will require to do 7 down through our work plans, our maintenance 7 our work, but we've gone back. With respect 8 plans, and they try to build a budget, 8 to, and we mentioned yesterday the vacancy 9 allowance, we had, you know, planned the basically, from that perspective, and that 9 10 would include anything and everything. 10 budget based on 40, and we've changed it to 11 There are some – I'm sure that there are 55 because we have been reasonable doing 11 some things that are, basically, this is how 12 12 that over the past couple of years, but, you much we normally spend on, I'll say, office know, we look at every position that's 13 13 14 materials and basically sometimes we go back filled, do we need to do it now, can we 14 15 and we try to cut those things. We go back 15 delay a month or two months, and we try to 16 and look at all those things, but we want stage that in to maintain the budget and to 16 17 people to do that. But it is in response to meet those objectives. 17 18 the next year's work program primarily and 18 Q. And in terms of your personal involvement, 19 what we foresee, and, obviously, there are 19 are those budgets brought to you first in 20 things that go "bump in the night", if you 20 draft form, is it just piecemeal and brought 21 will, where we have to react, and sometimes together in the foreseeable -21 22 we will see an overage, if you will, because 22 MR. HAYNES: 23 we didn't foresee that; particularly if it 23 A. No, no, it has been both ways, depending on 24 can't be capitalized and things do happen 24 if there's something different or new, or 25 like that, but we make estimates based on 25 changed, but, basically, it's a consolidated

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	Page 41		Page 43
1	budget primarily I focus on. I have	1	A. Yes.
2	attended meetings on what we call, refer to,	2	MR. O'BRIEN:
3	and Ms. Dalley can speak to this more	3	Q. How often is the executive meetings with you
4	appropriately, what we call a "get-in	4	to discuss these budgets?
5	process". When we have vacancies and we	5	MR. HAYNES:
6	fill jobs, it's not just automatically we	6	A. We have a meeting at least monthly, and
7	fill that particular position because it's	7	sometimes twice a month on various issues,
8	vacant and it's an approved budget position.	8	and there is, obviously, a monthly report
9	We look at each one of those. We look at	9	done on the budgets and so on and regularly
10	the overall request and we try to stage them	10	reviewed.
11	in to suit the work requirements, and,	11	MR. O'BRIEN:
12	obviously, with a strong eye to the budget	12	Q. So a monthly report on budget that will tell
13	and meeting our goals with respect to, for	13	you how you're tracking?
14	instance, vacancy allowance.	14	MR. HAYNES:
15	MR. O'BRIEN:	15	A. Yes, year-to-date forecast. It's very
16	Q. In terms of the management of the budget	16	comprehensive, actually.
17	going forward, how are you involved in that	ı	MR. O'BRIEN:
18	process?	18	Q. And you review those on a monthly basis,
19	MR. HAYNES:	19	personally?
20	A. We review the budget on a monthly basis.	20	MR. HAYNES:
21	There are reports done. We look at that.	21	A. Yes, I review – it's a summary document, and
22	We've generated reports back out to the	22	occasionally we get down and take a deeper
23	folks in the field with respect to their	23	look that I will attend.
24	labour costs and so on. We expect the folks	24	MR. O'BRIEN:
25	in the field from a supervisor up to be	25	Q. And how about Mr. Marshall's role, does he
	Page 42	23	Page 44
1	contributing to meeting our budget goals and	1	play a role in setting the budget or
2	objectives.	2	managing the budget in any way, shape, or
$\frac{2}{3}$	MR. O'BRIEN:	3	form?
4	Q. And on a monthly basis in those meetings,	4	
5		"	MIK HAVINES.
	are you informed of where a hudget is	l 5	MR. HAYNES:  A He has not to date no
	are you informed of where a budget is	5	A. He has not to date, no.
6	tracking or where the costs are tracking in	6	A. He has not to date, no. MR. O'BRIEN:
6 7	tracking or where the costs are tracking in relation to the budget?	6 7	A. He has not to date, no.  MR. O'BRIEN:  Q. Now, during the last General Rate Hearing,
6 7 8	tracking or where the costs are tracking in relation to the budget?  MR. HAYNES:	6 7 8	A. He has not to date, no.  MR. O'BRIEN:  Q. Now, during the last General Rate Hearing, the CEO of Nalcor testified, Mr. Martin, and
6 7 8 9	tracking or where the costs are tracking in relation to the budget?  MR. HAYNES:  A. It depends on the issue. Basically, if the	6 7 8 9	A. He has not to date, no.  MR. O'BRIEN:  Q. Now, during the last General Rate Hearing, the CEO of Nalcor testified, Mr. Martin, and he testified about striving to keep
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	tracking or where the costs are tracking in relation to the budget?  MR. HAYNES:  A. It depends on the issue. Basically, if the budgets are on tap, I don't spend a lot of time at it, but if they're drifting off and I have been informed, or if there are challenges for certain things, and things do come up that we need to do that we have o go find the money for, and sometimes we have to move it up, and those happen on a regular basis.  MR. O'BRIEN:  Q. It's your expectation to be informed if that's the case?  MR. HAYNES:  A. Yes.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. He has not to date, no.  MR. O'BRIEN:  Q. Now, during the last General Rate Hearing, the CEO of Nalcor testified, Mr. Martin, and he testified about striving to keep operating budgets at inflationary levels and trying to do that. Is that something you look at as well?  MR. HAYNES:  A. We look at that, but we also have to look at the age of the assets, and we also respond, you know, to – we have changed the way we do things. We're a lot more proactive on storm preparation and looking at our operating reserve. As I mentioned yesterday, you know, when you go back from the 2013/2014 timeframe, we have changed the way we've done things, so it's not always practical to
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	tracking or where the costs are tracking in relation to the budget?  MR. HAYNES:  A. It depends on the issue. Basically, if the budgets are on tap, I don't spend a lot of time at it, but if they're drifting off and I have been informed, or if there are challenges for certain things, and things do come up that we need to do that we have o go find the money for, and sometimes we have to move it up, and those happen on a regular basis.  MR. O'BRIEN:  Q. It's your expectation to be informed if that's the case?  MR. HAYNES:  A. Yes.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. He has not to date, no.  MR. O'BRIEN:  Q. Now, during the last General Rate Hearing, the CEO of Nalcor testified, Mr. Martin, and he testified about striving to keep operating budgets at inflationary levels and trying to do that. Is that something you look at as well?  MR. HAYNES:  A. We look at that, but we also have to look at the age of the assets, and we also respond, you know, to – we have changed the way we do things. We're a lot more proactive on storm preparation and looking at our operating reserve. As I mentioned yesterday, you know, when you go back from the 2013/2014 timeframe, we have changed the way we've done things, so it's not always practical to

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1	Page 45			Page 47
1	perspective, but we feel that they're cost	1		What we need and what we want, and the
2	increases that reflect the expectations of	2		instructions to my folks is that we're
3	the customer, and the Board, in fact,	3		looking for sustainable savings ongoing, so
4	particularly through the Liberty Review, and	4		we're not having – you know, we're not going
5	I can't get into the granularity or the	5		to move a bunch of money out of that cost of
6	specifies of that, but we have changed, and	6		service year to get through a GRA, but what
7	when you look at those particular numbers	7		we need is sustainable savings ongoing, and
8	that are on the screen, you know, 2015,	8		that's the direction that I've given to the
	there was a lot of catch-up work, I'll say,	9		folks to look for these savings on an
10	reviewing our work processes. From the point			ongoing basis. That's why we have a
11	of view of the operating and maintenance	11		productivity team created, that's why I've
12	plans, there's a integrated annual work plan	12		asked them to go back and look at the
1				
13	where we try to tie all that together, we	13		capital program because even though it's not
14	try to minimize the impacts of multiple	14		operating, capital still has to be paid for
15	outages so we can do more work at one time,	15		by the customer. So my instructions are to
16	and sometimes from the point of view of	16		go back and make sure we have the right
17	customer liability, that may cost more money	17		balance of cost in the operating area and
18	sometimes, but at the end it probably saves	18		the capital area to serve our customers to
19	money because you're not having – it saves	19		the greatest extent that we can.
20	the overall performance because we're not	20	MR. O'BRIE	
21	having multiple outages too. So there's a	21	Q.	Let's pick up on that in terms of 2016 when
22	fair bit of coordination involved as well.	22		you arrived at Hydro – came back to Hydro, I
23	MR. O'BRIEN:	23		guess, in this particular position. Hydro's
24	Q. So in terms of $-$ put aside things that $-$ I	24		budget had already been set for that year
25	suppose, you have to keep track of capital	25		from the previous year, is that fair?
	Page 46			Page 48
1	assets and keep track of things that might,			
	assets and keep track of things that hight,	1	MR. HAYNE	ES:
2		_	MR. HAYNE A.	
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	work that might need to be done on an annual	2		I do not recall the number, but it had been
3	work that might need to be done on an annual basis, but would you have a general	2 3		I do not recall the number, but it had been set, but it was a fairly aggressive program
3 4	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at	2 3 4		I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that
3 4 5	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?	2 3 4 5		I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a
3 4	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:	2 3 4		I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately
3 4 5 6 7	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put	2 3 4 5 6 7		I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted
3 4 5 6 7 8	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel,	2 3 4 5 6 7 8		I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's
3 4 5 6 7 8 9	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even	2 3 4 5 6 7 8 9		I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you
3 4 5 6 7 8 9 10	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an	2 3 4 5 6 7 8 9 10		I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain
3 4 5 6 7 8 9 10	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there	2 3 4 5 6 7 8 9 10		I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to
3 4 5 6 7 8 9 10 11 12	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost,	2 3 4 5 6 7 8 9 10 11 12		I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my
3 4 5 6 7 8 9 10 11 12 13	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost, the two things that jumped off the page were	2 3 4 5 6 7 8 9 10 11 12 13	A.	I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my opinion.
3 4 5 6 7 8 9 10 11 12 13 14	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost, the two things that jumped off the page were a significant reduction in what we call SEM	2 3 4 5 6 7 8 9 10 11 12 13 14	A.  MR. O'BRIE	I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my opinion.
3 4 5 6 7 8 9 10 11 12 13 14 15	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost, the two things that jumped off the page were a significant reduction in what we call SEM budget, which is System Equipment	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A.	I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my opinion.  N:  My question is more you're coming in the
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost, the two things that jumped off the page were a significant reduction in what we call SEM budget, which is System Equipment Maintenance, and two of the specific examples that I still remember were there was a lot of money cut out of the budget for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A.  MR. O'BRIE Q.  MR. HAYNE	I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my opinion.  N:  My question is more you're coming in the middle of the year, so there's already a budget set?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost, the two things that jumped off the page were a significant reduction in what we call SEM budget, which is System Equipment Maintenance, and two of the specific examples that I still remember were there was a lot of money cut out of the budget for vegetation management on lines, and there	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A.  MR. O'BRIE Q.  MR. HAYNE A.	I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my opinion.  N:  My question is more you're coming in the middle of the year, so there's already a budget set?  ES:  There was a budget set.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost, the two things that jumped off the page were a significant reduction in what we call SEM budget, which is System Equipment Maintenance, and two of the specific examples that I still remember were there was a lot of money cut out of the budget for vegetation management on lines, and there was also a significant amount of money cut	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. O'BRIE Q. MR. HAYNE A. MR. O'BRIE	I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my opinion.  N:  My question is more you're coming in the middle of the year, so there's already a budget set?  ES:  There was a budget set.  N:
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost, the two things that jumped off the page were a significant reduction in what we call SEM budget, which is System Equipment Maintenance, and two of the specific examples that I still remember were there was a lot of money cut out of the budget for vegetation management on lines, and there was also a significant amount of money cut out of the budget for gas turbines. I said,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A.  MR. O'BRIE Q.  MR. HAYNE A.	I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my opinion.  N:  My question is more you're coming in the middle of the year, so there's already a budget set?  ES:  There was a budget set.  N:  And being operated – that's being managed
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost, the two things that jumped off the page were a significant reduction in what we call SEM budget, which is System Equipment Maintenance, and two of the specific examples that I still remember were there was a lot of money cut out of the budget for vegetation management on lines, and there was also a significant amount of money cut out of the budget for gas turbines. I said, so responding to all the criticism of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. O'BRIE Q. MR. HAYNE A. MR. O'BRIE	I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my opinion.  N:  My question is more you're coming in the middle of the year, so there's already a budget set?  ES:  There was a budget set.  N:  And being operated – that's being managed presumably in accordance with some
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	work that might need to be done on an annual basis, but would you have a general philosophy to try to keep operating costs at inflationary levels?  MR. HAYNES:  A. Yes, in the last couple of years, we've put some heavy restrictions on travel, conferences, and things like that, even training as well. If I could use an example, when I came back in 2016, and there was a concerted effort to reduce the cost, the two things that jumped off the page were a significant reduction in what we call SEM budget, which is System Equipment Maintenance, and two of the specific examples that I still remember were there was a lot of money cut out of the budget for vegetation management on lines, and there was also a significant amount of money cut out of the budget for gas turbines. I said, so responding to all the criticism of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. O'BRIE Q. MR. HAYNE A. MR. O'BRIE	I do not recall the number, but it had been set, but it was a fairly aggressive program in place to actually go back and reduce that cost, and I presume it would have been a reaction to the 2015 actual of approximately \$151,000.000.00. So there was a concerted effort to come back and reduce, and there's nothing wrong with that, but some things you can cut and move out, but you can't sustain those savings ongoing and not continue to provide safe reliable service, in my opinion.  N:  My question is more you're coming in the middle of the year, so there's already a budget set?  ES:  There was a budget set.  N:  And being operated – that's being managed presumably in accordance with some instruction at that point?

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1	MR. O'BRII	EN:	1		identify options to reduce costs in the
2	Q.	At your instructions at that point?	2		short term". Is that a fair assessment of
3	MR. HAYN	ES:	3		what was done in 2016?
4	A.	No, but it was continue there to do all	4	MR. HAYNI	ES:
5		that, but I also am very conscious of the	5	A.	Well, the SEM budget I mentioned would
6		fact that you just can't keep taking money	6		certainly be indicative of that reaction,
7		out of the operating budget and expect to	7		yes. You can defer vegetation management
8		deliver reliable service. You know, you	8		for one year, it's not going to cause grief,
9		can't keep going, but I think the aggressive	9		but you can't sustain it over the long term.
10		tactics were appropriate, and we've	10		I'm just using that as an example.
11		continued some of those, but we do want to	11	MR. O'BRIE	
12		come back to the right sustainable operating	12	Q.	I understand.
13		amount of money that we need to deliver the	13	MR. HAYNI	
14		service that we're demanded to do.	14	A.	The same thing with training, you can take a
15	MR. O'BRII		15	11.	holiday on a training budget, but at the end
16	Q.	So when you talk about aggressive tactics,	16		of the day, you have to train your folks.
17	ζ.	do you know what the instructions were in	17	MR. O'BRIE	
18		putting together the 2016 budget? Do you	18	Q.	And, I guess, that's my focus, there's
19		have any idea as to what they were?	19	٧.	certain things you can do on a short term
20	MR. HAYN		20		and certain things you can do in a long
21	A.	When the budget was created versus what we	21		term?
22	11.	actual, I think it was – I do not have that	22	MR. HAYNI	
23		specific information; I didn't go back and	23	A.	What I'm looking for from the folks is
24		review that.	24	Α.	sustainable savings that we can continue
25	MR. O'BRII		25		throughout.
25	Witt. O Ditti	Page 50			Page 52
1	Q.	The evidence suggests there were	1	MR. O'BRIE	-
	Q.	instructions for the short term, to reduce	2		So I'm wondering why in 2016, or whether in
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$		cost on a short-term basis. Is that fair?	3	Q.	2016 there was any focus on sustainable cost
4	MR. HAYNI		4		reduction?
5			5	MR. HAYNE	
1	A.	I think by moving out, for instance, the examples I gave of system equipment	6		I'm not aware if there was a focus on that
6		maintenance, that would be indicative of		A.	other than it should be just general
7		that because you can't sustain – you know,	7 8		business as usual to be focused on
8 9		•	9		sustainable savings, and that's what we're
10		you have to clear right-of-ways and you can't sustain that sort of cost cutting	10		focused on.
1				MR. O'BRIE	
11 12		measure and not maintain reliability, obviously.	11 12		Well, even if we go down here to the next
13	MR. O'BRIE	•	13	Q.	line, "This has the effect of creating
14		Do you know whether instructions were given			immediate focus on cost reduction without
15	Q.	•	14 15		consideration of sustainability. At that
113		in terms of the long-term basis, how to cut			•
16		cost for the long term hasis on an annual			
16		cost for the long-term basis, on an annual	16		time Hydro had submitted a 2015 test year
17	MR HAVNI	cost?	17	мр цаумп	operating of 139".
17 18	MR. HAYNI	cost? ES:	17 18	MR. HAYNE	operating of 139".
17 18 19	A.	cost? ES: I'm not aware of what was done then, no.	17 18 19	A.	operating of 139". SS: Yes.
17 18 19 20	A. MR. O'BRIE	cost? ES: I'm not aware of what was done then, no. EN:	17 18 19 20	A. MR. O'BRIE	operating of 139". SS: Yes. N:
17 18 19 20 21	A.	cost? ES: I'm not aware of what was done then, no. EN: I wonder if we can bring up PUB-NLH-54.	17 18 19 20 21	A.	operating of 139". SS: Yes. N: The actual costs were 150, so I think that
17 18 19 20 21 22	A. MR. O'BRIE	cost? ES: I'm not aware of what was done then, no. EN: I wonder if we can bring up PUB-NLH-54. Line 6 to 8, the answer, "In early '16,	17 18 19 20 21 22	A. MR. O'BRIE	operating of 139". SS: Yes. N: The actual costs were 150, so I think that goes to your earlier comment that costs were
17 18 19 20 21 22 23	A. MR. O'BRIE	cost? ES: I'm not aware of what was done then, no. EN: I wonder if we can bring up PUB-NLH-54. Line 6 to 8, the answer, "In early '16, direction was given by the executive and	17 18 19 20 21 22 23	A. MR. O'BRIE	operating of 139". SS: Yes. N: The actual costs were 150, so I think that goes to your earlier comment that costs were higher earlier and there was a focus on
17 18 19 20 21 22	A. MR. O'BRIE	cost? ES: I'm not aware of what was done then, no. EN: I wonder if we can bring up PUB-NLH-54. Line 6 to 8, the answer, "In early '16,	17 18 19 20 21 22	A. MR. O'BRIE	operating of 139". SS: Yes. N: The actual costs were 150, so I think that goes to your earlier comment that costs were higher earlier and there was a focus on bringing that down?

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1	A.	But the costs were higher, basically, in	1		down closer to inflationary -
2		response to doing what I would call a lot of	2	MR. HAYNE	
3		catch-up work on maintenance and so on as a	3	A.	Closer to inflation, but, basically, as we
4		result of the events of 2013/2014 and	4		go back and review all aspects of the
5		somewhat in 2015 primarily. So there was a	5		budget, whether it's our labour component,
6		lot of work undertaken to do that. There	6		training, conferences, travel, anything and
7		was a lot of extra effort expended in the	7		everything is on the table for review and
8		field on assets and so on to increase	8		discussion, and as I mentioned before, the
9		reliability and sustainability of the	9		productivity improvement small team that we
10		assets.	10		put together to go out and mine those
11	MR. O'BRIE		11		aspects, they report up to Lisa, the vice-
12	Q.	That 2015 year, is that more an anomaly as a	12		president of Finance – Ms. Hutchens, I
13		result of catch-up sort of approach?	13		should say, the vice-president of Finance,
14	MR. HAYNE		14		and basically they are committed and they
15	A.	The 150.9 at that time I would think would	15		are looking for, to turn over any stone that
16	11.	be an anomaly, yes. I mean, the last couple	16		we can to provide sustainable, primarily
17		of years our budget – our final costs have	17		sustainable savings.
18		been lower, but I still think we have to	18	MR. O'BRIE	
19		struggle with the – we need to get to the	19	Q.	Were there any written direction to any team
20		point where it's a sustainable ongoing	20	Q.	executives to come up with long term
21		requirement of money to provide the service	21		solutions here?
22		we're expected to, the level of service	22	MR. HAYNE	
23		that's expected.	23	A.	We have put – I won't say there's written
$\begin{vmatrix} 23 \\ 24 \end{vmatrix}$	MR. O'BRIE		24	A.	directions. We have put things in folks'
25			25		performance contracts with respect to coming
23	Q.	And, I guess, when you came on in 2016,	23		1 0
,		Page 54			Page 56
		would you have seen – you would have been	1		up with productivity improvement things that
2		informed or get a chance to review what the	2		would be provided to the productivity
3		budget was and where you were tracking from	3		improvement team to look for, and,
4		an operating perspective?	4		obviously, if you got 200 suggestions –
5	MR. HAYNE		5		because we think that anybody in the company
6	A.	Yes, and basically the budget was tracking	6		can contribute to savings, whether it's the
7		lower because of some measures that were	7		line worker or the janitor, or whatever. If
8		taken. As I mentioned, I went down through	8		they have an idea, we would like to hear it,
9		the budget, and the ones specific were the	9		and, obviously, the folks are looking at
10		large numbers that were deferred from the	10		high level things, but they'll respond to
11		system equipment maintenance point of view	11		any suggestion and they will evaluate them
12		when we're actually trying to respond to	12		from the point of view of how can they be
13		system equipment maintenance issues that	13		exercised, are they realistic ones or just
14		have evolved over time.	14		someone's personal perspective, and they
15	MR. O'BRIE		15		will rank those and we are determined to
16	Q.	So based on seeing that information, and	16		deliver savings.
17		your comments that some of that stuff is	17	MR. O'BRIE	
18		sort of short term, you can't defer those	18	Q.	I wonder if we could scroll to the
19		types of costs -	19		attachment to this. There's a total
20	MR. HAYNE	S:	20		operating cost category here. So we do see
21	A.	Indefinitely.	21		a 2016 original budget. That 2016 original
22	MR. O'BRIE		22		budget, if we go down to the bottom, and I
23	Q.	Indefinitely. What direction did you give	23		won't get into the details of it, just want
24	`	the executive in terms of coming up with	24		to look at the bottom figure there, 139,000
I 44					
25		long term solutions here to keep budgets	25		– sorry, one hundred and thirty-nine

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1	million, five sixty nine. That looks like	1	specifics of that. It was created before I
2	the figure that was submitted for the 2015	2	came, you know. If I could use an example,
3	test year. Do you have any knowledge as to	3	the target was to find basically 4 million
4	how they came up with - how Hydro came up	4	dollars of the 30 million dollar system
5	with that 2016 budget?	5	equipment maintenance. The two that jump
6	MR. HAYNES:	6	out to my mind were the right-of-way
7	A. The 2016 budget? Other than the fact that	7	clearing and the gas turbine. I forget the
8	they're broken down by category here, that's	8	collective number, but they were significant
9	all. I didn't go back and review the	9	in the order of a couple of million dollars
10	rationale or things like that that were in	10	total.
11	the budget.	11	MR. O'BRIEN:
12	MR. O'BRIEN:	12	Q. Are you able to find out for me whether or
13	Q. And did you look at that budget and then	13	not there was a set reduction from the
14	compare where you were tracking when you	14	budget that was to be managed, try to come
15	started?	15	up with the -
16	MR. HAYNES:	16	MR. HAYNES:
17	A. Well, yes, when I came, basically, the	17	A. I would suggest that discussion is probably
18	budget was 139 million, and, basically, we	18	better left with Ms. Hutchens. It may
19	were tracking below that because of the	19	require some time.
20	efforts that were taken to find any savings,	20	MR. O'BRIEN:
21	which I would suggest a lot of them were	21	Q. Was Ms. Hutchens there at the time?
22	short term things as opposed to long term	22	MR. HAYNES:
23	sustainable ones, but we are continuing –	23	A. Pardon?
24	you know, I mentioned already that we go	24	MR. O'BRIEN:
25	back and we have a fairly rigorous process,	25	Q. Was Ms. Hutchens there at the time?
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1	we're filling vacant positions, and we	1	MR. HAYNES:
2	challenge people to come back and look for	2	A. No, but some of the accounting people are
3	other ways to do it, do they really need	3	still there within the department, so they
4	those folks, can they rationalize the work,	4	would aid her to find that information there
5	reallocate work within a department, and so	5	to have a discussion on it.
6	on. Those are ongoing discussions, you	6	MR. O'BRIEN:
7	know, in order to get down, if you will, to	7	Q. Okay, if we could go back to the table for
8	the sustainable number long term.	8	the operating cost 2017, page 23, that's the
9	MR. O'BRIEN:	9	information one. So that 2016 budget that
10	Q. If we could scroll up to the second column	10	we saw of 139 million, that was actually in
11	there, target reduction. Was there actually	11	excess of the 132 million that was
12	a target set to reduce the 2016 budget? Do	12	ultimately approved by the Board for the
13	you know the answer to that?	13	2015 test year, is that right?
14	MR. HAYNES:	14	MR. HAYNES:
15	A. I don't know the answer, this was—well it	15	A. That's correct, as I remember, yes.
16	says there, "Target versus actual".	16	MR. O'BRIEN:
17	MR. O'BRIEN:	17	Q. So for 2016, the actuals came out to be 123
18	Q. Yeah, that's the third one, though, but the	18	million, which is a fair difference between
19	middle one, target reduction, is that just	19	the anomaly year of 2015, but also a
20	the difference between the actuals? I would	20	reduction from the actual 2015 approved test
21	have thought that was target versus actual.	21	year, is that right?
22	Target reduction, I'm wondering if it's a	22	MR. HAYNES:
23	set reduction?	23	A. Yes, and a very aggressive cost reduction
24 25	MR. HAYNES:	24	target too in the sense of reducing cost
	A. It appears to, but I can't speak to the	25	anywhere and everywhere, again I would

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1		suggest largely – or somewhat at least, if	1	MR. O'BRIEN:	
2		not largely, on sustainable long term.	2	Q. Right. But was there – I guess my question	
3	MR. O'BRIE	EN:	3	is more was there a focused approach at	
4	Q.	So in terms of how you were able to reduce	4	reducing FTEs in 2016 as a manner raised -	
5		costs in that year, I wonder if we could	5	MR. HAYNES:	
6		bring up page 3.3 of Chapter 3. It's a	6	A. There's a focused approach to have the right	
7		table there for FTEs.	7	number of FTEs to do the work that we needed	
8	CHAIR:		8	to do. I wouldn't agree that there was a	
9	Q.	In the additional information or –	9	focus to reduce the total number of FTEs.	
10	MR. O'BRIE	EN:	10	The focus is to have the right number of	
11	Q.	No, in the evidence, Chapter 3, Page 3.3.	11	FTEs to do the job that we're supposed to	
12		Sorry, 3.4. So the actual FTEs changed in	12	do.	
13		2015 from 861 to 809. Did that contribute a	13	MR. O'BRIEN:	
14		fair bit to the reduction cost?	14	Q. And you were going through a reorganization	
15	MR. HAYNI		15	process at the time?	
16	A.	Absolutely, yes.	16	MR. HAYNES:	
17	MR. O'BRIE		17	A. At the same time, yeah.	
18	Q.	Was that a focus?	18	MR. O'BRIEN:	
19	MR. HAYNI		19	Q. So to the extent that any FTEs were moved	
20	A.	As I said, we were paying a lot of	20	from Hydro to Nalcor around that time, there	
21	11.	attention, and still do, to the vacancy	21	still would have been money charged back	
22		allowance that we have in the budget and we	22	from Nalcor for the services provided?	
23		have to meet that, so we are – there's a lot	23	MR. HAYNES:	
24		of focus on actually staging an employee at	24	A. Yes, you can't look at it in total	
25		the right time, and sometimes we have to	25	isolation. If there are employees in Nalcor	
==		Page 62		Page 64	
1		bring them in ahead of time if there's	1	providing services to Hydro, there would be	
2		training required or safety orientation and	2		
$\frac{2}{3}$		stuff like that, but, basically, bring in	3	have to look at the whole really.	
4		temporaries and permanent people, and if we	4		
5		can delay, we will delay. If you have a	5		
6		vacant, to use an example, fairly obvious,	6	reduction in cost?	
7		if you have a vacant trades position that is	7	MR. HAYNES:	
8		at the end of the heavy lift season with	8		
9		respect to maintenance, and then we will	9	a two-way street, there were services	
10		wait a few months before we bring them on.	10		
11		You know, we'll bring them on in a timely	11	versa, you know. I'll use an example: We	
12		basis to effect next year's work. Then	12		
13		there's temporaries to go with that, and	13	to help put it in context, if you have an	
14		temporaries come and go, obviously.	14	* *	
15	MR. O'BRIE	1	15		
16		Yeah, I understand there's also a fair	16	engineering department, and at the time the engineering managers were Nalcor, but	
17	Q.	number of FTE positions transfer for common	17	engineering managers were realcor, but engineers would be working on a Hydro	
18		services around that time too.	18		
19	MR. HAYNE		19	1 3 / 3	
20			20	1 0 .	
20 21	A.	There's quite a bit, and Ms. Dalley would have a fair bit of detail on the – there was	20	working on multiple projects, but their cost and work orders were actually charged time	
22			21 22	· · · · · · · · · · · · · · · · · · ·	
23		a restructuring. Obviously, there were bodies moving back and forth between Hydro	23	1	
24		and Nalcor in the sense of separating Nalcor	23		
1		and Hydro.	25		
25		anu myuto.	23	incurred. Right now - basically, most of	

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1		their time right now is strictly Hydro and	1		we have to balance it. My instructions, and
2		very little transferred in from Nalcor. So	2		I just can't restate it enough, my
3		there is a readjustment, if you will,	3		instructions are we want sustainable cost
4		happening in this process with multiple	4		reductions and we want sustainable
5		changes, obviously.	5		improvement and reliability, and we have to
6	MR. O'BRIE		6		look for that balance, and that's what we're
7	Q.	Can I ask you, Mr. Haynes, just in terms of	7		proposing to do in this GRA.
8	Q.	the reduction in overall costs from 2015,	8	MR. O'BRIE	
9		150 million, which we agree is sort of an	9	Q.	Those instructions, did you give those
10		anomaly, but even from the budget for 2016	10	Q.	instructions when you came on in 2016?
11		of 139 down to 123,9 is a significant	11	MR. HAYNE	
12		difference. Did you find any issues with	12	A.	
1				A.	Well, the instructions for 2016 were there,
13	MD HANNE	reliability as a result of that?	13		they were sustained. I questioned the logic
14	MR. HAYNE		14		of deferring SEM cost when we know that
15	A.	Not that I'm aware of, not off the top of my	15		reliability is an issue. Those were
16	A CONTRACTOR	head, no.	16		primarily – that was my initial reaction to
17	MR. O'BRIE		17		the budget is that we've cut a lot of
18	Q.	So when you looked –	18		reliability related cost that we probably
19	MR. HAYNE		19		should reconsider, but we were also
20	A.	We have had, you know – that's not fair to	20		responding to the pressures to reduce cost.
21		say. We have improved reliability of the	21	MR. O'BRIE	
22		gas turbines, for instance, over the	22	Q.	Okay, so from that perspective, and I did
23		2016/2017 timeframe, and I think there were	23		get that impression from your evidence
24		some things there that may have contributed	24		yesterday, that reliability came before
25		to that because we didn't hire, we deferred	25		cost, is that a fair assessment?
		Page 66			Page 68
1		certain things to do, you know, so we were	1	MR. HAYNES	S:
2		working on improving those, that sort of	2	A.	It's a balance. It's a balance, and as I
3		thing. There may be some, but whether	3		said, or as I tried to say, that if we are
4		there's a huge single issue, I don't think	4		spending too much on reliability and there's
5		SO.	5		an appetite for a bit higher risk, then,
6	MR. O'BRIE	N:	6		obviously, maybe there's some cost savings
7	Q.	Did you have a focused plan in 2016 that	7		that we can do. You know, we had a higher
8		you're going to reduce cost to make sure	8		reserve, we've done – we've staffed gas
9		that it's not going to affect reliability?	9		turbines in the event of a situation where
10	MR. HAYNE		10		we think we might be at risk. You know, in
11	A.	I can't speak to – I'm sure that would have	11		2013 and when I left, that would be a rare
12	11.	been an overarching goal, but from the point	12		event. We do it right now, we do it as
13		of view of specifics and the directions, I	13		required, and it is obviously a cost, a
14		doubt that, but I do not know. My	14		labour cost; particularly an operating cost
15		directions are to my folks is that,	15		in that case.
16		basically, we look at our cost, we sustain	16	MR. O'BRIEN	
17		it; we want to keep safety, obviously, first	17		So in 2016 when you came on, that would have
18		and foremost; we want the reliability to be	18	Q.	been around the time where the budget for
1		•			· ·
19		improving; and, obviously, as I said	19		2017 would have been – that process would
20		yesterday, it's safety, reliability, and	20	MD HANNE	have been started?
21		cost, and because we anticipate or we are of	21	MR. HAYNES	
22		the opinion that the reliability is a hugely	22	A. MR. O'BRIEN	Yeah.
1 22		important iccite to the clictomere and	23	WIR LIBRIEN	AI -
23		important issue to the customers and			
23 24 25		everybody and that we have to look at that first. We look at the cost in parallel, but	24 25	Q.	So in terms of instruction, if you had issues with some of the short-term costs

that were being cut that could affect reliability, what instructions did you give?  A. The instructions to make sure that the folks were comfortable with what they're suggesting, the VPs, in particular, that they were comfortable with what was being put forward that we can meet these reliability targets, and at the cost that we put forward, but I was not down in the weeds. Obviously, it was a period of transition because we were thiring — were transition because we were thiring— were transition because we were thiring— they in particular think thugely so.  MR. O'BRIEN:  MR. O'BRIEN:  MR. HAYNES:  A. A true time, I don't remember the numbers off the top of my head, but we would have looked at retarting by or history. We would have looked at retarting to required to portional that time to try to make sure that tyou kept the FTEs at a reasonable level, any written instructions?  MR. HAYNES:  Q. Did you put in place any processes around that time to try to make sure that tyou kept the FTEs at a reasonable level, any written instructions?  MR. HAYNES:  Q. Did you put in place any processes around that time to try to make sure that you kept the FTEs at a reasonable level, any written instructions?  MR. HAYNES:  MR. HAYNES:  Q. Did you put in place any processes around that time to try to make sure that you kept the FTEs at a reasonable level, any written instructions?  MR. HAYNES:  MR. HAYNES:  A. A I don't think we have written instructions. We have an ongoing, you know, what we call the "Gating in Process" (phonetic) where any requisition comes in, 1 vould slightest through A blanket approval to approve department blank that time to try to make sure that you kept the FTEs at a reasonable level, any written instructions?  MR. HAYNES:  A. A I don't think we have written instructions. We have an ongoing, you know, what we call the "Gating in Process" (phonetic) where any requisition comes that the folks and the order and process. A MR. O'BRIEN:  MR. HAYNES:  A. Well, the forecast, that in the company that we can delay	April	17, 2018		NL Hydro 2017 GRA
2 reliability, what instructions did you give? 3 MR. HAYNES: 4 A. The instructions to make sure that the folks 5 were comfortable with what they're 6 suggesting, the VPs, in particular, that 7 they were comfortable with what was being 8 put forward that we can meet these 9 reliability targets, and at the cost that we 10 put forward that we can meet these 10 put forward, but I was not down in the 11 weeds. Obviously, it was a period of 12 transition because we were hiring process and 14 a restructuring. So that may have 15 complicated it a bit, but I don't think 16 hugely so. 17 MR. O'BRIEN: 18 Q. So the 2017 budget was set by the October 19 range? 19 MR. HAYNES: 20 And that particular budget, was that higher 19 than what we have in the 2018 test year? 21 MR. HAYNES: 22 MR. HAYNES: 3 A. At the time, I don't remember the numbers 4 off the top of my head, but we would have 4 looked at certainly our history. We would 6 have looked at what we put forward in the 8 costs to provide the level of service that 9 we think we're obligated or required to 10 provide, but on the details of the budget, I 11 would suggest that it never was kind of a blanket approval to approve it, but the 10 thurdle now to get that approval to approve it, but the 11 the weeds. Obviously, it was a period of 11 the weeds. Obviously, it was a period of 12 tracking for cost to figure out- 14 the weeds. Obviously, it was a period of 15 meeting process of the look of the provide, but on the details of the budget, I 16 would suggest that it never was kind of a blanket approval to paprove it, but the 16 hurdle now to get that approved the hurdle now to get that approval to paprove it, but the 17 minute of the requisition of the search will suggest that it never was lind of a view, or can we share things that can happen from the point of 18 view, or can we share it with somebody see 19 meeting every month where I attend them 10 occasionally, I don't go to all the meetings 11 meeting every month where I attend them 12 over the provide of the provide in t		Page 69		Page 71
reliability, what instructions did you give?  A. The instructions to make sure that the folks were comfortable with what they're suggesting, the VPs, in particular, that they were comfortable with what was being put forward that we can meet these reliability targets, and at the cost that we put forward that we can meet these reliability targets, and at the cost that we put forward that we can meet these reliability targets, and at the cost that we put forward, but I was not down in the weeds. Obviously, it was a period of the weeds. Obviously, it was a period of the complicated if a bit, but I don't think bugely so.  MR. O'BRIEN:  NR. O'BRIEN:  NR. O'BRIEN:  A. Around that timeframe.  MR. HAYNES:  A. At the time, I don't remember the numbers off the top of my head, but we would have looked at everal booked at everal booked at what we put forward in the costs to provide the level of service that we think we re be folks tog so over that process.  MR. HAYNES:  A. At the time, I don't remember the numbers off the top of my head, but we would have looked at everal booked at what we put forward in the the FTs at a reasonable level, any written instructions?  MR. HAYNES:  MR. O'BRIEN:  MR. HAYNES:  MR.	1	that were being cut that could affect	1	long term requirement, so we're constantly
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25 wait, or even delete, if you will, if it's a 25 MR. HAYNES:	1 0 7			

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		Page 73		Page 75
1	A.	So if that was early in the year, it would	1	somewhat, but I do not have memory of any
2		be very close to budget. If it was in the	2	specific thing that was a single driver, if
3		last quarter of the year, there would be	3	you will.
4		variations, obviously, between different	4	MR. O'BRIEN:
5		categories of cost because they're not –	5	Q. Okay. We talked earlier about education
6		obviously, not precise.	6	deferrals. That would be under system
7	MR. O'BRIE		7	equipment maintenance?
8	Q.	Are you able to undertake just to provide a	8	MR. HAYNES:
9	Q.	copy of the 2017 budget when it was	9	A. That would be under system equipment
10		approved?	10	maintenance, yes, and that's up by roughly
	MR. HAYNE			
11			11	half a million dollars, a little over
12	A.	Yes.	12	\$600,000.00, \$650,000.00, which is not a
13	CHAIR:	T211	13	major amount. I would also suggest too, if
14	Q.	I'll register that as Undertaking #2.	14	I could, if you take a one-year holiday, and
15	MR. TEMPL		15	I do remember this discussion, if you take a
16	Q.	Undertaking #2, yes, thank you, Chair.	16	one-year holiday or you cut back severely or
17	MR. O'BRIE		17	significantly your vegetation management
18	Q.	Any idea whether or not – I'm assuming	18	program, it doesn't necessarily mean that
19		because this is filed with the rate case	19	you do it all next year. You may stagger it
20		2017, you're halfway through the year at	20	over a number of years, but you can't just
21		around that point. Do you know whether or	21	keep plowing that up to later on, but you
22		not the forecast was as a result of numbers	22	can kind of reshuffle your forecast. So
23		halfway through or just first few months?	23	maybe the vegetation management that was
24	MR. HAYNE		24	required six years out is now deferred one
25	A.	I'm sure that the test year forecast would	25	year to try to streamline that in, but you
-		Page 74		Page 76
1		have been based on all the information we	1	can't do that year over year, over year;
1		had up to the date of filing. Obviously, it		otherwise, you'll end up with a major
2			2	
3		wouldn't be the month prior, but certainly	3	vegetation issue eventually.
4	MD CADDIE	the quarter prior.	4	MR. O'BRIEN:
5	MR. O'BRIE	17	5	Q. That becomes a reliability issue versus –
6	Q.	Are you aware of any major changes that	6	MR. HAYNES:
7		would have occurred the first three or four	7	A. Yes. Basically, you will have, you know,
8		months of 2017 that might have affected the	8	tree falls (phonetic) primarily, or access
9		budget or changed the forecast picture?	9	issues.
10	MR. HAYNE	CS:	10	MR. O'BRIEN:
11	A.	Not offhand, no. I am not, but as I said,	11	Q. We do see labour cost went up 4 million?
12		the VPs manage their budgets.	12	MR. HAYNES:
13	MR. O'BRIE		13	A. Yes, less than the '15 actuals, and actually
14	Q.	For 2017 itself, to what level can you state	14	less than the 2015 test year as well.
15	ζ.	the reasons behind the change from the	15	MR. O'BRIEN:
16		actuals of 2016 to that forecast in 2017,	16	Q. Do you believe that was associated with the
17		was there anything glaring in your mind as	17	reorganization?
18		to why that increased from 123.9 of actuals	18	MR. HAYNES:
19		to 134?	19	A. I think partially, but, you know, if I
20	MR. HAYNE		20	* *
				recall correctly, there was, and Ms.
21	A.	You can go down through the different –	21	Hutchens could – there was some change on
22		between the 2016 actuals and 2017 forecast,	22	employee future benefits which is basically,
23		you go down to the last category. You see	23	I won't say uncontrollable, but it is what
24		it bumps up various numbers. You know,	24	it is, sort of a number at the end of the
25		labour is up somewhat, consultants are up	25	day. I think there were some changes there

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1	as well, but I don't see them there. It is	1	Hydro's last general rate application came
2	roughly \$700,000.00 probably—or \$600,000.00,	2	out in 2016. Do you recall seeing that?
3	I should say, sorry.	3	MR. HAYNES:
4	MR. O'BRIEN:	4	A. Yes, yeah.
5	Q. I wonder if we could go back to Information	5	MR. O'BRIEN:
6	1, Page 8 of 118, Table 3.1. We looked at	6	Q. Would you have reviewed that in detail?
7	that earlier. So there was a forecast	7	MR. HAYNES:
8	increase in 2017 for FTEs of 51. Would that	8	Q. I've reviewed it, but I don't have it at the
9	largely have been related to your shuffling	9	top of my head. But I have reviewed it,
10	any –	10	yes.
11	MR. HAYNES:	11	MR. O'BRIEN:
12	A. Can you repeat the first part of your	12	Q. What was your initial impression of that
13	question, please, I'm sorry?	13	order?
14	MR. O'BRIEN:	14	MR. HAYNES:
15	Q. It looks like there's a forecast increase	15	A. Well, basically the—I was just going to
16	from 2016 actuals to 2017 forecast of 51	16	restate that basically on a go-forward
17	FTEs. Is that part of your process –	17	basis, we are going to stick with the—
18	MR. HAYNES:	18	looking for sustainable reliability,
19	A. I would suspect, but again Ms. Dalley has	19	delivery of service, and with the least
20	spent a fair of time on the detail of	20	about of FTE resources and overall cost.
21	managing those overall numbers.	21	Now that basically is the crux of what we're
22	MR. O'BRIEN:	22	trying to do in our 2018 and 2019 proposal.
23	Q. Do you know why the actuals for 2017 really	23	MR. O'BRIEN:
24	only went up by six?	24	Q. But in terms of the Board's comments and
25	MR. HAYNES:	25	that sort of thing, did you put any—did you
25	Page 78	25	Page 80
1	A. I think there was, going back to the	1	read anything into that or from that order
2	concerted effort on, you know, the staging	$\frac{1}{2}$	that gave you cause to think?
3	in folks or whatever, as I said, we are	$\frac{2}{3}$	MR. HAYNES:
4	looking for sustainable savings, we are	4	A. I don't have that at the top of my mind
5	reviewing every position, every requisition,	5	right now.
6	and only approving the ones that we think is		MR. O'BRIEN:
7	required to provide the service that we're	7	Q. Okay.
8		8	MR. HAYNES:
1	expected to provide. MR. O'BRIEN:	9	
9			A. Sorry. MR. O'BRIEN:
10	Q. So, that's a focused effort on your part to	10 11	
12	maintain appropriate levels – MR. HAYNES:	12	Q. So, going forward, what did you see as your biggest challenge for Hydro to control
13			
	A. On everybody's part, yeah. MR. O'BRIEN:	13	operating costs?
14		14	MR. HAYNES:
15	Q. Maintain an appropriate level of FTEs?	15	A. Our biggest challenge on controlling
16	MR. HAYNES:	16	operating costs is the maintenance that we
17	A. Yes.	17	have to do on the assets. And you know, we
18	MR. O'BRIEN:	18	have gone through a fair bit of asset
19	Q. Okay.	19	replacement on certain things, particularly
20	MR. HAYNES:	20	breakers and things like that. We have
21	A. Yeah.	21	reviewed the Asset Management Program, our
22	MR. O'BRIEN:	22	PMs, our preventative maintenance work, our
23	Q. And I'm going to get back to that just a	23	corrective maintenance work and providing
24	little bit later. So, by the end of 2016,	24	that level of service. We have concerns
25	2016, the Board's order on—with respect to	25	about, you know, some, you know, reliability

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1		issues on some aging assets which we don't—	1	particular area. It was a collective of
2		like for instance, I mentioned Holyrood	2	number that we—a collective review of
3		yesterday is a challenge, and in the sense	3	everything. Whether it's training or
4		of, you know, the number of employees that	4	transportation or travel or whatever, we
5		have retired and moved on, and the temporary	5	could look for savings wherever we can.
6		employees. So, those things all have some	6	MR. O'BRIEN:
7		incurrence of addition costs, maybe in	7	Q. Okay. I'm going to take you to a couple of
8		overtime or external resources required	8	portions of the—that Board Order. And I
9		occasionally to help us get things in order,	9	wonder if we can bring up P.U. 49(2016). I
10		but you know, I think the budget that we put	10	don't want to go in too much detail, but
11		forward for 2018 and 2019 in realistic. We	11	page 44 if we could, at lines or line 23.
12		did put in a million-dollar—roughly a	12	"The Board acknowledges the upward pressure
13		million-dollar, what we call a productivity	13	on Hydro's salaries and benefits costs since
14		allowance because we are still looking for	14	2007. Nevertheless, it's Hydro's
15		savings. We recognize that up front. I	15	responsibility to manage these costs with a
16		would also mention that even in that budget,	16	view to the provision of least cost reliable
17		have also—that was the amount that was put	17	service. Given the significant increase in
18		there specifically as a productivity	18	salaries and benefits costs it is incumbent
19		allowance. There was also the number of	19	on Hydro to demonstrate that all steps"—
20		additional resources that required an ECC to	20	"reasonable steps were taken to manage these
21		facilitate the facilitate the DC lines and	20	· · · · · · · · · · · · · · · · · · ·
1			22	costs. Hydro provided evidence in relation
22		the additional work there. We put those in		to how the budget for salaries and benefits
23		and we, you know, we found those from	23	costs was developed. Managers were
24		within. So, that's another part of it. We	24	responsible in relation to cost controls and
25		have agreed to the—an increase in the	25	finding efficiencies, and develop budgets
,		Page 82		Page 84
		vacancy allowance in the Settlement	1	using the established budget guidelines and
2		Agreement which also is another part of	2	the salary estimates provided by Human
3		productivity. So, you know, the one-million	3	Resources and Organizational Effectiveness.
4		dollars I think is only a portion of what	4	It appears the"—"that execution" or
5		we're already conceded—not conceded. That's	5	"executive oversight of the budget was
6		the wrong word. Well we've agreed that we	6	focused to a large degree on areas where the
7		would be, you know, reasonable and prudent	7	budget exceeded inflation. Hydro did not
8		things to do to maintain and reduce our	8	demonstrate that systematic reviews and
9		cost.	9	controls were in place to manage these
10	MR. O'BRIE		10	significant and increasing costs or that
11	Q.	Do you have any idea how that one-million	11	there was meaningful and strategic oversight
12		dollars is calculated?	12	by the executive. The Board finds that
13	MR. HAYNE		13	Hydro failed to demonstrate that these costs
14	A.	I don't off the top of my head, but	14	were established in a rigorous process and
15		basically it was a number that was—we know	15	was involved"—"and which involved a
16		that we can—you know, if we can save a	16	substantive review of requirements and
17		dollar here or a dollar there, they will add	17	consideration of the available opportunities
18		up. And that's what we're looking for with	18	to achieve savings and cost reductions.
19		the productivity group, to go back and look	19	Hydro did not provide evidence demonstrating
20		for those savings. And I know that, you	20	reasonable controls on salaries and
21		know, fromyou know, Ms. Hutchens may be	21	benefits." And ultimately, down on line 12,
22		able to add a little more context to that	22	"The Board believes that a disallowance of
23		there, but it was not—it wasn't necessarily	23	four million dollars of the proposed 2015
24		that we thought we could find a million	24	salaries and benefits costs is reasonable in
1		dollars in this particular area or that	25	the circumstances." Do you recall reviewing
25		donars in this particular area of that		the entermistances. Be you recan reviewing

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1	that?	1	all their costs, to get it down to a
2	MR. HAYNES:	2	sustainable, reasonable level.
3	A. Yes, I read that, yes.	3	MR. O'BRIEN:
4	MR. O'BRIEN:	4	Q. Okay. But you've added a disallowance of
5	Q. That part of the order?	5	four-million dollars here in salaries.
6	MR. HAYNES:	6	MR. HAYNES:
7	A. Yeah.	7	A. Yes, we have, yeah.
8	MR. O'BRIEN:	8	MR. O'BRIEN:
9	Q. And what did you take from that?	9	Q. So, did that cause you to go back and look
10	MR. HAYNES:	10	at the budget?
11	A. Well I remember, we have gone back, as I	11	MR. HAYNES:
12	said, with the FTE portion of our—I go back	12	A. Only to go back and reinforce the fact that
13	to that on a regular basis, and I have. I	13	we need to control costs, get it down to a
14	apologize, but that is an effort to reduce	14	defendable level, and what we've put forward
15	that cost. We have not had—you know, we	15	for the 2018 and 2019 test year is what we
16	have collective agreements in place, we have	16	consider to be the amount of money we
1	salary scales where people can progress in	17	· ·
17	, , , , , , , , , , , , , , , , , , , ,	1	required to deliver the service that we're
18	their scales which are—which we've honoured.	18	expected to deliver.
19	The—from the point of view of a general	19	MR. O'BRIEN:
20	cost-of-living increase, they have not—we	20	Q. I wonder if we could move along to page 52.
21	have not done that for the management side	21	We talked earlier about the productivity
22	of the business for the last two years. So,	22	allowance. 52, lines 40—or sorry, line 40.
23	we haveyou know, we have not given a	23	This is the Board's—are the Board Findings.
24	general increase. The collective agreement	24	"The Board shares the concerns expressed by
25	did have salary adjustments, obviously,	25	the intervenors in relation to the
	Page 86		Page 88
1	which we honoured, but from the point of	1	efficiency of Hydro's operations. While
2	view of the management side of the business,		Hydro selects"—"suggested that productivity
3	there was no cost of living. That doesn't	3	is built into the budget when prepared by
4	mean people didn't move within their scale	4	the manager, the budget guidelines do not
5	to get the job rate and things like that,	5	set this out, and further do not provide
6	but there was no general, no general cost of	6	guidance as to the approach that is to be
7	living.	7	taken to build in productivity," sorry, "to
8	MR. O'BRIEN:	8	build in productivity. The Board notes that
9	Q. Did you go back and look at the 2017 budget	9	the annual budget guidelines do not
10	after receiving this order to revisit it?	10	reference productivity objectives,
11	MR. HAYNES:	11	efficiency measures or cost reduction
12	A. Not that I recall.	12	initiatives." If we go to the next page—or
13	MR. O'BRIEN:	13	sorry, go to the lines 26 to 38, the Board
14	Q. And why not?	14	comments here about these efficiency
15	MR. HAYNES:	15	measures. "Despite the fact that Hydro
16	A. I can't recall. You know, we had put in	16	failed to demonstrate reasonable efficiency
17	place the Gating Session (phonetic). We go	17	measures, the Board believes that a
18	look at all these things. We go back and	18	productivity allowance may not be
19	we're looking at overtime. We're looking at	19	appropriate in the circumstances. A
20	all the cost contributions, and I look at	20	productivity allowance is intended to
21	that as a business-as-usual thing we need to	21	provide an incentive to manage costs and
22	be doing all the time. And that has been	22	find efficiencies. There would be no
23	reinforced with the folks, and we are busy	23	effective opportunity for Hydro to find
	with that. And I know that I the VPs are	24	efficiencies given that it is now late in
1 2/1		1 4 <del>4</del>	CHICICHOIOS ZIVOH HIGH H 15 HOW TAILOHI
24 25	engaged in looking at their labour costs, as	25	2016 and that Hydro is expected to file a

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1		general rate application in 2017 for 2018	1	of actually a detailed budget document and
2		test year rates." If we go back down—if we	2	so on, Ms. Hutchens could elaborate on that
3		go down here to line 35, "However, the Board	3	a bit more than I would—could.
4		expects Hydro to implement improved	4	MR. O'BRIEN:
5		processes in relation to identifying,	5	Q. So, in terms of the productivity allowance
6		establishing and documentary"—or	6	itself, Ms. Hutchens can elaborate more on
7		"documenting efficiency measures before the	7	that as well?
8		filing of its next general rate	8	MR. HAYNES:
9		application." Has Hydro done that?	9	A. Yes, yeah, but as I said, it is a target
10	MR. HAYNI	11	10	that we have to actually, you know, reduce
11	A.	I'm going back—when we actually prepared the	11	the cost and—but the budget is built based
12	11.	budget, we went back and we looked at to	12	on, you know, what our expected—our expected
13		reduce whatever costs we thought was	13	maintenance program requires and so on.
14		reasonable. We've increased our attention	14	MR. O'BRIEN:
15		to hiring and so on, but from—that's what	15	Q. Right.
16		we've done. And I'm not aware that we've	16	MR. HAYNES:
17		actually gone back and done any specific	17	A. And those—that's what in the budget.
18		document. We looked at transportation, we	18	MR. O'BRIEN:
19		looked at travel, we're looking at anything	19	Q. So, that million dollars, it's generally a
20		and everything. And part of the reason, you	20	million dollars for each of the test years?
21		know, for the productivity allowance is, you	21	MR. HAYNES:
22		know, we have put a productivity allowance	22	A. Yes.
23		in the 2018 and 2019 test year to account	23	MR. O'BRIEN:
24		for some of that.	24	Q. That's Hydro's incentive to keep its costs
25	MR. O'BRIE		25	down?
	THE O DIEL	Page 90		Page 92
1	0	_	l .	
	()	Okay well I gliess my dilestion -	I 1	MR HAYNES:
$\frac{1}{2}$	Q. Mr. hayni	Okay, well, I guess my question - ES:	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	MR. HAYNES:  A. Hydro's incentive. That is—vou could put it
$\begin{bmatrix} 1\\2\\3 \end{bmatrix}$	MR. HAYNI	ES:	$\begin{bmatrix} 1\\2\\3 \end{bmatrix}$	A. Hydro's incentive. That is—you could put it
3		ES: So, you know, we have acknowledged that part	3	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said
3 4	MR. HAYNI A.	ES: So, you know, we have acknowledged that part of it, if you will.	3 4	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in
3 4 5	MR. HAYNI A. MR. O'BRIE	ES: So, you know, we have acknowledged that part of it, if you will.	3 4 5	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact
3 4 5 6	MR. HAYNI A.	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity	3 4 5 6	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPC.
3 4 5 6 7	MR. HAYNI A. MR. O'BRIE Q.	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested –	3 4 5 6 7	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a
3 4 5 6 7 8	MR. HAYNI A. MR. O'BRIE Q. MR. HAYNI	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested – ES:	3 4 5 6 7 8	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing
3 4 5 6 7 8 9	MR. HAYNI A. MR. O'BRIE Q.	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019	3 4 5 6 7 8 9	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars
3 4 5 6 7 8 9 10	MR. HAYNI A. MR. O'BRIE Q. MR. HAYNI A.	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year.	3 4 5 6 7 8 9 10	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance
3 4 5 6 7 8 9 10 11	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year. EN:	3 4 5 6 7 8 9 10 11	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would
3 4 5 6 7 8 9 10 11 12	MR. HAYNI A. MR. O'BRIE Q. MR. HAYNI A.	ES: So, you know, we have acknowledged that part of it, if you will. N: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year. N: No, I understand, but suggested that Hydro	3 4 5 6 7 8 9 10 11 12	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to
3 4 5 6 7 8 9 10 11 12 13	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year. EN: No, I understand, but suggested that Hydro implement improved processes in relation to	3 4 5 6 7 8 9 10 11 12 13	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets
3 4 5 6 7 8 9 10 11 12 13 14	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year. EN: No, I understand, but suggested that Hydro implement improved processes in relation to identifying and establishing, documenting	3 4 5 6 7 8 9 10 11 12 13 14	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets that were required to meet the things that
3 4 5 6 7 8 9 10 11 12 13 14 15	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year. EN: No, I understand, but suggested that Hydro implement improved processes in relation to identifying and establishing, documenting efficiency measures before the filing of the	3 4 5 6 7 8 9 10 11 12 13 14 15	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets that were required to meet the things that they had to do, and we'll come back and
3 4 5 6 7 8 9 10 11 12 13 14 15 16	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE Q.	ES: So, you know, we have acknowledged that part of it, if you will. N: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year. N: No, I understand, but suggested that Hydro implement improved processes in relation to identifying and establishing, documenting efficiency measures before the filing of the next GRA. Did you do that?	3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets that were required to meet the things that they had to do, and we'll come back and we'll find another million dollars besides.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE Q.	So, you know, we have acknowledged that part of it, if you will.  EN:  But the Board didn't impose the productivity allowance here, but suggested –  ES:  No, we volunteered one in the 2018 and 2019 test year.  EN:  No, I understand, but suggested that Hydro implement improved processes in relation to identifying and establishing, documenting efficiency measures before the filing of the next GRA. Did you do that?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets that were required to meet the things that they had to do, and we'll come back and we'll find another million dollars besides.  MR. O'BRIEN:
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE Q.	So, you know, we have acknowledged that part of it, if you will.  EN:  But the Board didn't impose the productivity allowance here, but suggested –  ES:  No, we volunteered one in the 2018 and 2019 test year.  EN:  No, I understand, but suggested that Hydro implement improved processes in relation to identifying and establishing, documenting efficiency measures before the filing of the next GRA. Did you do that?  ES:  I don't recall that we actually went down to	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets that were required to meet the things that they had to do, and we'll come back and we'll find another million dollars besides.  MR. O'BRIEN:  Q. Can we go to Information 1 again there? I'm
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE Q.	So, you know, we have acknowledged that part of it, if you will.  EN:  But the Board didn't impose the productivity allowance here, but suggested –  ES:  No, we volunteered one in the 2018 and 2019 test year.  EN:  No, I understand, but suggested that Hydro implement improved processes in relation to identifying and establishing, documenting efficiency measures before the filing of the next GRA. Did you do that?  ES:  I don't recall that we actually went down to that level of detail, no, but the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets that were required to meet the things that they had to do, and we'll come back and we'll find another million dollars besides.  MR. O'BRIEN:  Q. Can we go to Information 1 again there? I'm looking for Table 317. Okay, yes. So,
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE Q.	ES: So, you know, we have acknowledged that part of it, if you will. N: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year. N: No, I understand, but suggested that Hydro implement improved processes in relation to identifying and establishing, documenting efficiency measures before the filing of the next GRA. Did you do that? ES: I don't recall that we actually went down to that level of detail, no, but the instructions to the folks preparing the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets that were required to meet the things that they had to do, and we'll come back and we'll find another million dollars besides.  MR. O'BRIEN:  Q. Can we go to Information 1 again there? I'm looking for Table 317. Okay, yes. So, that's the general—it's the overall
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE Q.	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year. EN: No, I understand, but suggested that Hydro implement improved processes in relation to identifying and establishing, documenting efficiency measures before the filing of the next GRA. Did you do that? ES: I don't recall that we actually went down to that level of detail, no, but the instructions to the folks preparing the budget is to bring forward only what's necessary to actually, you know, provide a level of service that they're mandated to	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets that were required to meet the things that they had to do, and we'll come back and we'll find another million dollars besides.  MR. O'BRIEN:  Q. Can we go to Information 1 again there? I'm looking for Table 317. Okay, yes. So, that's the general—it's the overall operating budgets. So, if we compare 2018 test year, we've got an 18-million-dollar increase from the 2016 actuals, is that
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. HAYNI A.  MR. O'BRIE Q.  MR. HAYNI A.  MR. O'BRIE Q.	ES: So, you know, we have acknowledged that part of it, if you will. EN: But the Board didn't impose the productivity allowance here, but suggested – ES: No, we volunteered one in the 2018 and 2019 test year. EN: No, I understand, but suggested that Hydro implement improved processes in relation to identifying and establishing, documenting efficiency measures before the filing of the next GRA. Did you do that? ES: I don't recall that we actually went down to that level of detail, no, but the instructions to the folks preparing the budget is to bring forward only what's necessary to actually, you know, provide a	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Hydro's incentive. That is—you could put it that way, I guess. Basically, we have said that we will find another million dollars in our operating budget in addition to the fact that we've, you know, had more FTEs and EPCs which we've absorbed that. So, it's a million dollars plus the other the thing that have been done, but the million dollars is just a targeted productivity allowance that we, you know, propose that we would find those dollars. And the instruction to the folks were to come back with budgets that were required to meet the things that they had to do, and we'll come back and we'll find another million dollars besides.  MR. O'BRIEN:  Q. Can we go to Information 1 again there? I'm looking for Table 317. Okay, yes. So, that's the general—it's the overall operating budgets. So, if we compare 2018 test year, we've got an 18-million-dollar

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	Page 93		Page 95				
1	A. Yes, I think in the 2017 actuals though	1	which—and I think, you know, the—as I said,				
2	there's a lot of detail below that that Ms.	2	from the point of view of the actual				
3	Hutchens could probably rationalize more	3	analysis and dissecting the budget, the				
4	than me with respect to the implications of	4	finance folks would do that better than me.				
5	the GRA and things like that. It's not—you	5	MR. O'BRIEN:				
6	know, there are other bits and pieces of	6	Q. There's a reference to the evidence of the				
7	that particular number.	7	2018 and 2019 test year being a renewed				
8	MR. O'BRIEN:	8	Hydro's—or a reflection of Hydro's renewed				
9	Q. I guess the 2016 actuals I was comparing it	9	commitment to cost control.				
10	to, I'm sorry.	10	MR. HAYNES:				
11	MR. HAYNES:	11	A. Yes, but in the context of the change in the				
12	A. Oh, I'm sorry.	12	service that it's providing, as I go back,				
13	MR. O'BRIEN:	13	and we, you know, we are more proactive on				
1		ı	•				
14	Q. That's my fault. So, there's an 18-million-	14	maintenance. We are spending more on				
15	dollar increase over the one twenty-four and	15	maintenance from that perspective. We are				
16	one twenty-three nine. That's approximately	16	spending more on labour costs from staffing				
17	a 15 percent increase from 2016 to the first	17	gas turbines, you know, and terminal				
18	test year, is that right?	18	stations, if required and so on. And we are				
19	MR. HAYNES:	19	also going through a—you know, there's been				
20	A. Um-hm.	20	a significant turnover in the last number of				
21	MR. O'BRIEN:	21	years. There's obviously, you know, a				
22	Q. In that range?	22	decrease in productivity if you have new				
23	MR. HAYNES:	23	employees and so on. So, it is a bit of a				
24	A. Well, at that—in that range, yes.	24	transitory stage there, but we have				
25	MR. O'BRIEN:	25	responded to the feedback in the sense of,				
	Page 94		Page 96				
1	Q. And 2019 is going—the request is up to 145	1	you know, of improving reliability. And I				
2	MR. HAYNES:	2	can't remember the words in the Liberty				
3	A. Yes.	3	Report, but basically that's just the cost				
4	MR. O'BRIEN:	4	of doing business, and we—in prior times,				
5	Q. That's 21 million dollars over 2016 actuals?	5	we're extremely reluctant to spend money on				
6	MR. HAYNES:	6	staffing gas turbines for instance in case				
7	A. Yes, 2016 actuals, but as I said, there was—	7	there's an issue with Holyrood or another				
8	there were some specific actions taken in	8	generator if we're—or if we were close on				
9	2016 that can't be sustained. I think if	9	reserves. We've increased our reserve.				
10	you go back and compare the 2015 test year	10	Those things do not come free. They do come				
11	approved budget, and certainly the 2015	11	at a cost, but it is a cost that we feel				
12	actual which wasyou know, which is a	12	that the customers and the Board, and the—at				
13	different issue because were doing a lot of	13	large expect to improve that reliability.				
14	catch-up work if you will. You know, I	14	So, we do not have repeats of what happened				
15	don't know if it's appropriate to trigger	15	in 2013 and 2014.				
16	off any particular year. If you go back to	16	MR. O'BRIEN:				
17	* * * * * * * * * * * * * * * * * * *	17					
	the, you know, 2015 test year, which was	ı	Q. Those gas turbines, they're covered under				
18	approved, the 132, then basically from 2017,	18	these energy supply deferral accounts, are				
19	I don't think—I think that over time, you	19	they not?				
20	know, there are some bumps and—bumps along	20	MR. HAYNES:				
21	the way obviously, but I don't think it's	21	A. The fuel is.				
22	extraordinary that we—in 2015, if was 133	22	MR. O'BRIEN:				
23	million dollars, and we're now at 142, I	23	Q. The fuel is, yes.				
24	don't know what escalation rate is of that,	24	MR. HAYNES:				
25	but there are lots of puts and takes there	25	A. Yeah.				

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		Page 97			Page 99
1	MR. O'BRIE	-	1	MR. HAYN	_
2	Q.	Which is the capital cost in terms of –	2	Α.	Yes.
3	MR. HAYNI		3	MR. O'BRII	
1 4	A.	The capital cost and the—I don't think the	4	Q.	That's what was submitted.
1	Λ.	•	5	MR. HAYN	
5		operating costs is in a deferral account,			
6		but I think it's the fuel that's in the	6	A.	At 139?
7		deferral account. So, you know, you're	7	MR. O'BRII	
8		staffing up gas turbines in, you know –	8	Q.	At 139.
9	MR. O'BRIE		9	MR. HAYN	
10	Q.	So, labour associated?	10	A.	Yeah.
11	MR. HAYNI		11	MR. O'BRII	
12	A.	Labour associated, and in our collection	12	Q.	But the Board's Order was 132.
13		agreement basically, you know, you have some	13	MR. HAYN	IES:
14		restrictions on how that's done. There's a	14	A.	Right, yeah.
15		lot of that that's overtime.	15	MR. O'BRII	EN:
16	MR. O'BRIE	N:	16	Q.	It was a reduction –
17	Q.	You'd agree with me that from this table	17	MR. HAYN	IES:
18		anyway, if you looked at 2016 and 2017	18	Α.	Yeah, so –
19		actuals, 2018 is not an inflationary	19	MR. O'BRII	
20		increase, is it?	20	Q.	- for four million for labour.
21	MR. HAYNI		21	MR. HAYN	
22	A.	No, but I would also tie it back to the 2015	22	A.	Yeah, so 132 to 142 over that three-year
1	A.	t contract the contract to the	23	A.	period, it is high, but we have change the
23		test year and recognize that there was some,			
24		you know, fairly aggressive things done in	24		way we're operating. We are focused on
25		2016, and to some degree in 2017 for the—to	25		delivering higher reliability.
		Page 98		LED CIDRIEN	Page 100
1		deliver those budget numbers, which I don't	1	MR. O'BRIE	
2		think are sustainable.	2	Q.	But 132 to 142 is high, but you reduced it
3	MR. O'BRIE		3		to 123 and 130.
4	Q.	But I thought we agreed 2015 was an anomaly?	4	MR. HAYNE	SS:
5		It was a catch-up year, wasn't it?	5	A.	yes, but with deferring a bunch of system
6	MR. HAYNE	ES:	6		equipment maintenance is one part of that
7	A.	The test year. I don't think the test year	7		thing there which you referred me to that
8		was an anomaly. The 2015 actual was	8		table before. So, that was a fairly
9		certainly an anomaly.	9		aggressive thing to do. They're not
10	MR. O'BRIE		10		sustainable.
11	Q.	The test year of 139 with Board satisfied—or	11	MR. O'BRIE	
12	٧.	the Board indicated you had to prove	12	Q.	Well, let me ask you, in terms of FTEs—
13		reasonable costs for that 139, and 132 was	13	Q.	you've testified yesterday that you—that
			14		Hydro is not planning on adding any FTEs for
14	MR. HAYNE	given. Is that fair?	15		the test years?
				MD HAVNE	•
16	A.	The one thirty –	16	MR. HAYNE	
17	MR. O'BRIE		17	A.	No. We will –
18	Q.	The four-million-dollar reduction in	18	MR. O'BRIE	
19		salaries, salary costs, labour costs.	19	Q.	2018 or 2019?
20	MR. HAYNE		20	MR. HAYNE	
21	A.	You'd have to take me back to the 139 again,	21	A.	Yeah, and we will look for any savings we
22		I'm sorry.	22		can, and we will look at attrition, we will
23	MR. O'BRIE		23		look at any avenue to reduce. We'll—that's
24	Q.	One thirty-nine was a test year. The first	24		a commitment that we've made as well.
1 25	-	one here, the 2015 test year.	25	MR. O'BRIE	N:
25					

Page 101  1 Q. Would you agree with me that salary and labour costs sort of make up the larger part of operating costs?  3 MR. HAYNES:  5 A. Yes, it's a huge part of our costs, yes.  6 MR. O'BRIEN:  7 Q. Okay. And we saw an eartier table there where FTEs in 2017 only went up by six?  9 MR. HAYNES:  10 A. Not from the budget; from the actual.  11 MR. O'BRIEN:  12 Q. From the—well, the actual only went up the budget; but was a fair bit, 511 think is what the  15 MR. HAYNES:  16 A. Yes, eight—it's something like that, yeah.  17 MR. O'BRIEN:  18 Q. Yes.  19 MR. HAYNES:  19 MR. HAYNES:  19 MR. HAYNES:  10 A. Yeah, eight—it's something like that, yeah.  20 Q. So, if you don't increase FTEs, how do you gate from 132 to 142 or 130 to 142? It's a significant jump.  21 MR. O'BRIEN:  22 Q. So, if you don't increase FTEs, how do you gate from 132 to 142 or 130 to 142? It's a significant jump.  23 MR. HAYNES:  4 A. Yes, but the—if you were to take out the—a manumber is already lower by whatever that number is already lower by whatever that the doditional information, it might be easier. Yes, so the FTIEs we re looking at. The actual—her forecast in 2019 was 860, you year, 852, but ou're not going to add any test year 2018 or 2019?  24 MR. HAYNES:  5 A. Yes, but the—if you were to take out the—the top of my head, but—the office of the mount of the additional information, it might be easier. Yes, so the FTIEs we re looking at. The decay of the same through the mechanics of that.  24 MR. O'BRIEN:  25 MR. HAYNES:  26 A. Yes, but the—if you were to take out the—the the the to	April	17, 2018				NL Hydro 2017 GRA
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d MR. HAYNES:  A. Yes, it's a huge part of our costs, yes.  MR. O'BRIEN:  A. Not from the budget; from the actual only went up the budget, but was a fair bit, 51 I think is what the-  MR. O'BRIEN:  MR. HAYNES:  MR	1	Q.	Would you agree with me that salary and	1	Q.	So, is that 142 the appropriate figure now
of operating costs?  MR. HAYNES: A. Yes, it's a huge part of our costs, yes. MR. OBRIEN: C. Okay. And we saw an earlier table there where FTEs in 2017 only went up by six? MR. HAYNES: C. Okay. And we saw an earlier table there where FTEs in 2017 only went up by six? MR. HAYNES: C. Okay. And we saw an earlier table there where FTEs in 2017 only went up by six? MR. HAYNES: C. OFTOM the—well, the actual only went up the budget, but was a fair bit, 511 think is what the .  MR. OBRIEN: MR. HAYNES:	2		labour costs sort of make up the larger part	2		for 2018?
4 MR. HAYNES: 5 A. Yes, it's a huge part of our costs, yes. 6 MR. O'BRIEN: 7 Q. O'Kay. And we saw an earlier table there where FTEs in 2017 only went up by six? 9 MR. HAYNES: 10 A. No from the budget, from the actual. 11 MR. O'BRIEN: 12 Q. From the—well, the actual only went up the budget, but was a fair bit, 51 I think is budget, but was a fair bit, 51 I think is what the - 15 MR. HAYNES: 16 A. Yea, eight—it's something like that, yeah. 17 MR. O'BRIEN: 18 Q. Yes. 18 MR. O'BRIEN: 19 MR. HAYNES: 20 A. Yeah. 21 MR. O'BRIEN: 22 Q. So, if you don't increase FTEs, how do you get from 132 to 142 or 130 to 142? It's a significant jump. 23 MR. HAYNES: 24 A. Yes, but the—if you were to take out the—2 MR, O'BRIEN: 25 MR. HAYNES: 26 A. Yes, but the—if you were to take out the—2 MR, O'BRIEN: 27 A. Yes, but the—if you were to take out the—2 MR, O'BRIEN: 28 MR. HAYNES: 40 A. Yes, but the—if you were to take out the—2 MR, O'BRIEN: 41 A. Yes, but the—if you were to take out the—2 MR, O'BRIEN: 42 A. Yes, but the—if you were to take out the—2 MR, O'BRIEN: 43 Q. Built into that 142, isn't that an extra bunch of FTEs? 44 MR, O'BRIEN: 45 MR. HAYNES: 46 A. Yes. The vacancy allowance is built in. 46 A. Yes, but the—if you were to take out the—2 MR, O'BRIEN: 47 A. We're pretty well there right now, and basically, what we see, that 852, is what we think what we need to sustain the delivery of the service that we want to do. With respect to the evolution of the unibor and 11 number is already lower by whatever that number is already lower the same thing. If we can use the additional information, it might be easier. Yes, so the FTEs we're looking at. The actual—the forecast in 2017 was 860, you have to look at it in the context of the cost as well, and she					MR. HAYNI	ES:
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	23	MR. HAYNE	SS:	23	MR. O'BRIE	N:
	24	A.	No.	24	Q.	Okay. I'll ask Ms. Dalley. You mentioned
25 MR. O'BRIEN: 25 earlier this—I guess a dedicated team to	25	MR. O'BRIE	N:	25	~	· · · · · · · · · · · · · · · · · · ·

<u>A</u> pril	17, 2018		NL Hydro 2017 GRA
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1	look at the aggressive approach of costs,	1	Q. Yes, this is the group we were talking about
2	but can you give me a little bit more	2	that –
3	information about how that works?	3	MR. HAYNES:
4	MR. HAYNES:	4	A. Yes.
5	A. Ms. Hutchens could give you a lot more	5	MR. O'BRIEN:
6	detail than I can. Basically, we have taken	6	Q. "Is determined that a focused effort by a
7	basically, I'm going to say four individuals	7	core dedicated group is required."
8	to actually look at any way that we can	8	MR. HAYNES:
9	actually look at productivity improvement or	9	A. Yeah.
10	at-cost savings. We're looking for what we	10	MR. O'BRIEN:
11	call low-hanging fruit, along withbut	11	Q. So, and in terms of the individual team
12	mostly I want sustainable things come out of	12	members of that group, why—I guess first
13	that. But their scope is broad, and they do	13	I'll ask you when was the group established?
14	have, you know, some guidelines to do that	14	MR. HAYNES:
15	by, which Ms. Hutchens could speak to, and	15	A. They were established—we started talking
16	they report up through Ms. Hutchens. But	16	about this last summer when we had someyou
17	basically, there are a couple of—one senior,	17	know, kind of day of training on what was
18	one senior seasoned person who has a fair	18	referred to as Six—Lean Six Sigma, I
19	bit of field experience who basically	19	believe, sort of thing, and there were
20	started his career as a temporary and went	20	various levels. So, we have a couple of
21	through as eventually being a manager of	21	people who did more training and that there.
22	Hydro Generation who has a lot of insight	22	We're looking for—you know, to help us get
23	into the say things are working and what	23	to the point where we can actually deliver
24	some potential savings are. We have	24	sustainable savings. And then basically
25	somebody with a significant amount of	25	there's—they have no holds barred from the
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1	project management background in that group	1	point of how we're doing it now, what's the
2	who is keen on actually delivering, you	2	best way to do it? And can we actually do
3	know, sustainable savings. And we have two	3	it in a better, cheaper, more effective way,
4	other folks out there that basically—one	4	but also maintain safety and reliability?
5	basically is a line worker, and	5	So, you know, it is structured. They do
6	unfortunately, I forget the other—I just	6	have some technical training from that
7	forget the other individual, but basically,	7	perspective and they're very engaged. But
8	it's a small group who are going to generate	8	that is the team, and that would have been
9	their own thoughts on that there. They've	9	late last year.
10	been looking for input. They've met with	10	MR. O'BRIEN:
11	various groups across the system and has	11	Q. Late last summer or -
12	continued to do that, looking for	12	MR. HAYNES:
13	information and feedback. They will take	13	A. Last—yeah, we started talking about it, but
14	them back. They will prioritize the	14	we, you know, we have formalized that
15	possible savings and they will set up the	15	particular group now to be—you know, they
16	process easiest deliverable, and hopefully,	16	have legs. They have effort. The folks
17	we will enact enough that we'll deliver the	17	have been relieved from a few—from their
18	million dollars savings.	18	normal duties and we've replaced them with—
19	MR. O'BRIEN:	19	you know, we've just moved people around on
20	Q. Look, well, maybe we can pull up PUB NLH	20	a temporary basis to backfill those
21	122. I just want to make sure this is the	21	positions as required.
22	group we're talking about.	22	MR. O'BRIEN:
23	MR. HAYNES:	23	Q. And is there a written mandate?
24	A. This is the group, yes.	24	MR. HAYNES:
25	MR. O'BRIEN:	25	A. There is a written mandate.

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1	MR. O'BRIEN:	1	Q. And is that from each area or each
2	Q. Is that something you can you can provide	2	department? How does that work?
3	us?	3	MR. HAYNES:
4	MR. HAYNES:	4	A. No, we didn't do it that way. As I
5	A. I would suggest the best discussion would be	5	mentioned, one of the folks is basically
6	from Ms. Hutchens because she basically is	6	from Hydro Generation. The lady leading the
7	in charge of that particular group. They	7	group is basically from the Engineering
8	report up through her to the rest of the	8	Department. There's a line worker and I
9	leadership team.	9	just for the life of me cannot remember
10	MR. O'BRIEN:	10	where the other person is from. I think he
11	Q. I wonder if counsel can take it under	11	might be from the CVN group, but I'm
12	advisement to check their mandate on that?	12	probably guessing now.
13	MR. TEMPLETON:	13	MR. O'BRIEN:
14	Q. About the written mandate?	14	Q. So, there's four including Ms. Hutchens, is
15	MR. O'BRIEN:	15	it?
16	Q. Yes.	16	MR. HAYNES:
17	MR. TEMPLETON:	17	A. Pardon?
18	Q. We'll look into it.	18	MR. O'BRIEN:
19	CHAIR:	19	Q. Four including Ms. Hutchens?
20	Q. Is that another undertaking?	20	MR. HAYNES:
21	MR. O'BRIEN:	21	A. No, no, Ms. Hutchens is the executive
22	Q. I'll ask counsel to check into it for now.	22	sponsor if you will for that particular
23	It's something we may—we'll ask for the	23	group.
24	undertaking.	24	MR. O'BRIEN:
25	CHAIR:	25	Q. Okay, all right. And they meet how often?
25	Page 110		Page 112
1	Q. I'll haul the record up.	1	Monthly? Is that what you said?
2	MR. O'BRIEN;	2	MR. HAYNES:
$\frac{2}{3}$	Q. And are you part of that group, Mr. Haynes?	3	A. The particular group are at this fulltime.
4	MR. HAYNES:	4	MR. O'BRIEN:
5	A. Not directly. Basically, those group report	5	1 - 1
$\frac{3}{6}$	to Ms. Hutchens and we haven't had a	6	Q. Oh, fulltime? Okay. MR. HAYNES:
1	detailed report yet on where they are, but I	7	A. They're dedicated as –
7 8	know that they're very busy and we've some—	8	MR. O'BRIEN:
9	actually, that's true. We haven't had a	9	
10	report, but we've had a few meetings, yes,	10	Q. All right. MR. HAYNES:
11		11	
12	on that particular subject. MR. O'BRIEN:	12	A. Particularly the two senior folks. MR. O'BRIEN:
13		13	
	Q. I was going to ask you – MR. HAYNES:	14	Q. So, it's—I guess they're fully established
14 15		15	as of the end of this year or was it prior to that? Or the end of last year or was it
	A. Yeah, we have had meeting and basically		•
16	there's positive feedback coming and they're	16	prior to that?
17	very engaged. I'm very impressed. MR. O'BRIEN:	17	MR. HAYNES:
18		18	A. Oh, the end of—the end of last year they
19	Q. How many members on that team?	19	were done.
20	MR. HAYNES:	20	MR. O'BRIEN:
21	A. There are four people dedicated to that, and	21	Q. And what results, if any, have you seen as a
22	then we will use other people as required,	22	result of that?
23	but there are four people who are focused on	23	MR. HAYNES:
24	this particular group. MR. O'BRIEN:	24 25	A. I haven't seen specific results of things of late—to date, but I do recall that there's
25			

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1		been some mention, but you know, they'reas	1		They're still talking to the various
2		I said before, any dollar saved adds up the	2		regions. They've gone around. They've
3		collective at the end of the day. But Ms.	3		talked—you know, they're making visits,
4		Hutchens would be better to speak to the	4		specific site visits, to different areas to
5		specific progress. I don't recall the	5		tell them what they're doing and up to. And
6		specifics right now.	6		basically, there's a fair bit of—you know,
7	MR. O'BRIE	N:	7		I've had positive feedback. There's a fair
8	Q.	Do the 2018 or 2019 test years take into	8		bit of enthusiasm in a lot of people there,
9		account any anticipated savings?	9		including the folks, you know atyou know
10	MR. HAYNI	ES:	10		the front-line workers as well, that they're
11	A.	Well, yeah, the productivity allowance would	11		pleased to see that we're actually doing
12		have anticipated that it would be	12		this.
13		contributing to that there, but we are, as I	13	MR. O'BRII	
14		said, we are—you know, there's no stone	14	Q.	I wonder if we could take our break at this
15		unturned from our perspective that we need	15		point? We were planning on an eleven
16		to look at.	16		o'clock break.
17	MR. O'BRIE		17	CHAIR:	
18	Q.	Is that a directive?	18	Q.	Okay.
19	MR. HAYNE		19		(BREAK)
20	A.	And some of those things may take time to	20	CHAIR:	
21		implement. They may take more than one or	21	Q.	Are we ready to continue?
22		two years if there are, you know, issues	22	MR. O'BRII	
23		with respect to the collective agreement or	23	Q.	Thank you very much.
24		how things are organized or even, you know,	24	CHAIR:	
25		the way the divisions are separated, but we	25	Q.	Mr. O'Brien.
		Page 114			Page 116
1		want to be—we don't want to have them	1	MR. O'BRIE	
2		bounded by any particular issue. We want to	2	Q.	Okay. I wonder if we can bring up the
3		know what are the potential savings, and how	3		Information 1, the 2017 Actuals, page 24,
4		do we actually make that happen?	4		Table 3.18. Yes, that's it, thank you.
5	MR. O'BRIE		5		Okay, Mr. Haynes, I had a question about—we
6	Q.	And I understand from the evidence in some	6		see the actual cost or the total cost for
7		responses that there's no direction given to	7		2017, and the ones for 2016. We see the
8		management in terms of that productivity	8		labour cost. There's a four-million-dollar
9		allowance per se. Is that part of this	9		increase there. When we talked earlier
10		group? Are they given a direction, say,	10		about the FTEs and there only being an
11		"We've got a built-in productivity allowance	11		additional six FTEs in 2017 over 2016, are
12		in our test years. This what you"—"we want	12		you able to comment on why there would have
13		you to focus on, those savings," or –	13		been a four-million-dollar increase in
14	MR. HAYNI		14	. m	labour costs?
15	A.	I wouldn't say it's directly. We want to	15	MR. HAYNI	
16		focus on whatever way we can make it more	16	A.	Between 2016 and 2017? I can't specifically
17		efficient, period. So, and you know, Ms.	17		speak to that there, but I suggest that Ms.
18		Hutchens could actually go down to the	18		Dalley could probably speak to the—at a high
19	) (D. 0:==:	specific details and –	19		level on the overall compensation. I mean,
20	MR. O'BRIE		20		we did have collective agreement adjustments
21	Q.	Do you have any idea in terms of the order	21		of, I believe, two and a half percent for
22		of magnitude of savings that you—cost	22		the year. As I mentioned, there were no
23	100 *****	efficiencies you're expecting out of this?	23		management increased whatsoever, except for
24	MR. HAYNI	ES:	24		progression, in the normal progression
25	A.	Not offhand. They're still exploring data.	25		within their scales. And there may be some—

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1	those are the only two things that pop in	1	I just want to get just certainyour take
2	mind.	2	on as to why there'd be an increase in the
3	MR. O'BRIEN:	3	actuals of 815 into the test year—of 815 in
4	Q. Okay. Do you think that they would have	4	2017 into the test year of 2018 to 852. Is
5	been anywhere in the range of a four-	5	there an anticipation of further FTEs needed
6	million-dollar figure? Is that something	6	in the test year than what you've got right
7	that –	7	now?
8	MR. HAYNES:	8	MR. HAYNES:
9	A. I don't know what the collective is, but I	9	A. What we have put forward, we had put forward
10	would suggest that Ms. Dalley could actually		852, and that's what we anticipate we would
11	put a number—have those numbers at hand.	11	require to do that, and we've already—you
12	MR. O'BRIEN:	12	know, in the Settlement Agreement we've
13	Q. I wonder if we could have a look at the	13	agreed that we would see another increase of
14	actuals, page 29. This I thought you might	14	15 FTEs from the point of view of vacancy
15	be able to comment on, executive leadership	15	allowance. So, that would be, you know, in
16	the increase from actuals from 2016	16	effect reduced by that anyway. Now, the
17	(inaudible).	17	other details, I would suggest that, you
18	MR. HAYNES:	18	know, Ms. Dalley would be the best one to
19	A. But the executive leadership in 2016 would	19	speak to the evolution of those particular
20	have been transferred in charges or	20	numbers.
21	allocated costs from Nalcor executive into	21	MR. O'BRIEN:
22	twenty—some of that would be there, I'm	22	Q. And maybe the better question is, have you
23	sure. I don't read all the numbers,	23	deferred any anticipated increase from 2017
24	obviously.	24	into 2018? If you had an anticipated or
25	MR. O'BRIEN:	25	forecast increase to 860, would you have
25			<del>-</del>
1	Page 118	1	Page 120
	Q. How about the forecast to actual there?	1	deferred that to 2018?
2	It's a seven-hundred-thousand-dollar change.	2	MR. HAYNES:
3	MR. HAYNES:	3	A. Well, we had—the only thing that I can think
4	A. Well, we had vacancies. We were recruiting	4	of offhand, and I wouldn't necessarily have
5	for positions of the transmission	5	called it a deferral, that we had provisions
6	distribution in NLSO.	6	for additional operators in the Energy
7	MR. O'BRIEN:	7	Control Centre, you know, to facilitate
8	Q. Yes.	8	managing the DC assets, you know, operating
9	MR. HAYNES:	9	the DC assets and also the open access
10	A. We were recruiting for the position of a	10	system. That would be the only—you know,
11	finance individual at the time. So, some of	11	they were initially paid for by TTO, and
12	that would have contributed to those	12	basically, they would be in our budget on a
13	changes.	13	go-forward basis. That's the only one I
14	MR. O'BRIEN:	14	could think of, but again, Ms. Dalley would
	MR. O'BRIEN:	14 15	could think of, but again, Ms. Dalley would have the particulars to the evolution of
14 15	MR. O'BRIEN: Q. And the details, can I take up with Ms.	15	have the particulars to the evolution of
14 15 16	MR. O'BRIEN: Q. And the details, can I take up with Ms. Dalley?	15 16	have the particulars to the evolution of those particular, you know, FTE numbers.
14 15 16 17	MR. O'BRIEN: Q. And the details, can I take up with Ms. Dalley? MR. HAYNES:	15 16 17	have the particulars to the evolution of those particular, you know, FTE numbers.  MR. O'BRIEN:
14 15 16 17 18	MR. O'BRIEN: Q. And the details, can I take up with Ms. Dalley? MR. HAYNES: A. Yes.	15 16 17 18	have the particulars to the evolution of those particular, you know, FTE numbers.  MR. O'BRIEN: Q. Yes, I guess, yes, my concern about it is
14 15 16 17 18 19	MR. O'BRIEN: Q. And the details, can I take up with Ms. Dalley? MR. HAYNES: A. Yes. MR. O'BRIEN:	15 16 17 18 19	have the particulars to the evolution of those particular, you know, FTE numbers.  MR. O'BRIEN:  Q. Yes, I guess, yes, my concern about it is more of you don't need the—if you're at
14 15 16 17 18 19 20	MR. O'BRIEN: Q. And the details, can I take up with Ms. Dalley? MR. HAYNES: A. Yes. MR. O'BRIEN: Q. Okay.	15 16 17 18 19 20	have the particulars to the evolution of those particular, you know, FTE numbers.  MR. O'BRIEN:  Q. Yes, I guess, yes, my concern about it is more of you don't need the—if you're at normal operations now, is that fair? Is
14 15 16 17 18 19 20 21	MR. O'BRIEN: Q. And the details, can I take up with Ms. Dalley?  MR. HAYNES: A. Yes.  MR. O'BRIEN: Q. Okay.  MR. HAYNES:	15 16 17 18 19 20 21	have the particulars to the evolution of those particular, you know, FTE numbers.  MR. O'BRIEN:  Q. Yes, I guess, yes, my concern about it is more of you don't need the—if you're at normal operations now, is that fair? Is that a fair assessment? Are you at normal
14 15 16 17 18 19 20 21 22	MR. O'BRIEN: Q. And the details, can I take up with Ms. Dalley?  MR. HAYNES: A. Yes.  MR. O'BRIEN: Q. Okay.  MR. HAYNES: A. Yeah.	15 16 17 18 19 20 21 22	have the particulars to the evolution of those particular, you know, FTE numbers.  MR. O'BRIEN:  Q. Yes, I guess, yes, my concern about it is more of you don't need the—if you're at normal operations now, is that fair? Is that a fair assessment? Are you at normal operations now?
14 15 16 17 18 19 20 21 22 23	MR. O'BRIEN: Q. And the details, can I take up with Ms. Dalley?  MR. HAYNES: A. Yes.  MR. O'BRIEN: Q. Okay.  MR. HAYNES: A. Yeah.  MR. O'BRIEN:	15 16 17 18 19 20 21 22 23	have the particulars to the evolution of those particular, you know, FTE numbers.  MR. O'BRIEN:  Q. Yes, I guess, yes, my concern about it is more of you don't need the—if you're at normal operations now, is that fair? Is that a fair assessment? Are you at normal operations now?  MR. HAYNES:
14 15 16 17 18 19 20 21 22	MR. O'BRIEN: Q. And the details, can I take up with Ms. Dalley?  MR. HAYNES: A. Yes.  MR. O'BRIEN: Q. Okay.  MR. HAYNES: A. Yeah.	15 16 17 18 19 20 21 22	have the particulars to the evolution of those particular, you know, FTE numbers.  MR. O'BRIEN:  Q. Yes, I guess, yes, my concern about it is more of you don't need the—if you're at normal operations now, is that fair? Is that a fair assessment? Are you at normal operations now?

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1	anticipate would be the normal requirements	1	would put forward that basically we—when we
2	to deliver the service that we want to	2	went back and prepared the budget, we went
3	provide, are expected to provide. In 2015	3	back through and we challenged everybody
4	it was 861, but I'm sure there was some	4	from the point of view cost control. What
5	additional work there, you know doing some	5	did they need, what's absolutely required to
6	of the recovery. That's why we spent 150	6	provide the level of service, how to respond
7	million dollars. So, we've brought that	7	to, you know, outages and so on, and we
8	back down a bit, but -	8	arrived at 852. So, the 852, less the 15
9	MR. O'BRIEN:	9	additional vacancy, I wouldn't suggest that
10	Q. So, you brought –	10	we'd contemplate going any lower than that.
11	MR. HAYNES:	11	And even in that space, I mean, you have to
12	A. So, we are less than that.	12	recognize our geography. You know, we don't
13	MR. O'BRIEN:	13	have electricians and mechanics and line
14	Q. You brought your FTEs down to 809 in 2016?	14	workers in every rural isolated area. You
15	MR. HAYNES:	15	know, if you had a no holds barred on, you
16	A. Yes, a very aggressive, you know, program to	16	know, reliability at all cost, we would
17	control costs which, as I said before, I	17	staff up that way, and that's—we would never
18	don't think that's sustainable.	18	consider doing that. That would be
19	MR. O'BRIEN:	19	irresponsible. I think what we put forward
20	Q. It was sustained in 2017.	20	is reasonable and prudent.
21	MR. HAYNES:	21	MR. O'BRIEN:
22	A. We did, because we're still—we were still	22	Q. And did you have reliability concerns in
23	aggressive, but you know, on a go-forward	23	2017 arising from your reduction in costs
24	basis, we need more people in the control	24	down to 130?
25	room for managing those assets. We want to	25	MR. HAYNES:
	Page 122		Page 124
1	get—we have to—you know, what we set for	1	A. I'm not aware of specific items. I know
2	2018 and 2019, the budget is what we think	2	that we had lot of pressure on staffing for—
3	we need to support the system. And you	3	we had pressure on staffing for the gas
4	know, for the evolution of those numbers	4	turbine operations to, you know, react and
5	again, I would just suggest that if you want	5	respond to, you know, potential outages on
6	to walk through the different—you know, the	6	other equipment. We have staffing issues at
7	different FTE components, I would suggest	7	Holyrood because we have a lot of new people
8	that Ms. Dalley would be the best one to	8	there, and so we've incurred some extra
9	speak to that as we—and you know, we are	9	costs there from that perspective. But I
10	also, you know, separating the Hydro and	10	don't foresee any—I don't think there's
11	Nalcor. So, I'm sure there's a few things	11	anything major from that perspective, not
12	in there as well that would fall on that,	12	that I'm aware of, but -
13	but they wouldn't be—they would not be major	13	MR. O'BRIEN:
14	at all.	14	Q. Is there a specific plan to increase staff
15	MR. O'BRIEN:	15	in the CP in Holyrood?
16	Q. Okay. So, the 860 for 2017 forecast never	16	MR. HAYNES:
17	materialized. Is it possible that the 852	17	A. Not to increase, but we, you know, we have a
18	and 850 for the test years won't materialize	18	fair turnover rate. So, there's—every time
19	either?	19	somebody leaves, obviously there's an
20	MR. HAYNES:	20	additional cost from the point of view of
21	A. I would suggest that there would be at least	21	training and orientation. Possibly
22	down by the vacancy allowance that we've	22	backfilling some pressures on overtime to
23	set, because we will aggressively manage	23	accommodate those things. Those are—you
1 24	that as well. And if we can, fine, but I	24	know, we—when you go out hiring people for
24		ı – ·	
25	wouldn't suggest that we would, you knowI	25	Holyrood, right now, most people realize

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1	that that has a defined life. As I	1	think the—some of the outcomes of the GRA
2	mentioned before, we have over 50 percent of	f 2	which Ms. Hutchens could speak to may have
3	the staff are term and temporary, and	3	had some influence on that number as well.
4	obviously that's—they are obviously, I would		MR. O'BRIEN:
5	suggest at least that they're always looking	5	Q. What do you mean by that?
6	for a permanent job if some would arise.	6	MR. HAYNES:
7	And we do, you know, get applicants from	7	A. I think there areon the overall budget, I
8	those folks to go to permanent jobs in	8	think there were things from the point of
9	Hydro, and we accommodate that, but we	9	view of the, you know, the—what's the word
10	usually, you know, we may delay or backfill	10	I'm looking for? The PU Order whereby some
11	on a temporary basis, other jobs, because we	11	costs were actually done. And as I said,
12	want them to stay at Holyrood. So, there's,	12	that Ms. Hutchens would be the one to
13	you know, so, there are pressures like that,	13	actually—in that particular detail. Our
14	but they're normal pressures that we have to	14	overall operating—and maybe I'm getting,
15	deal with in the next couple of years. But	15	maybe getting mixed up with our total
16	the 850 and 852 are until post-steam world,	16	revenue net income number, and I apologize
17	if you will, those numbers I think are what	17	for that.
18		18	MR. O'BRIEN:
19	we require. Following, you know, the	19	
1	permanent shutdown of Holyrood as a steam		Q. That's okay. MR. HAYNES:
20	plant, there would be a reduction in FTEs,	20	
21	but that is, you know, a later even, post	21	A. Yeah.
22	2021 at least.	22	MR. O'BRIEN:
23	MR. O'BRIEN:	23	Q. And I won't take you down into the weeds. I
24	Q. So, you didn't require them for 2016 or '17,	24	guess I'm more concerned about, was that
25	but you will for 2018 and '19?	25	reduction as a result of a review of the
Ι.	Page 12	Ι.	Page 128
1	MR. HAYNES:	1	order maybe, and the focus -
2	A. I wouldn't put it that way. We were	2	MR. HAYNES:
3	extremely aggressive there, and as I said, I	3	A. Yeah. Yes, but I think one of the cost
4	can only back, that we went down to the	4	allocation reductions, one that does—that I
5	budget. We built a budget up based on	5	do recall is the fact that the—and the
6	maintenance requirements which have change	d 6	corporate business systems have moved off to
7	somewhat, and I can't speak to the level of	7	a separate issue, but the 2017 forecast when
8	granularity that maybe—that Mr. LeBlanc or	8	it was originally done, anticipated a
9	Ms. Williams could on that there. But we	9	significant from the IT component of the
10	built a budget based on our requirements and	10	corporate business systems which didn't
11	what we anticipated we need for a corrective	11	materialize because of some delays in that
12	and preventative maintenance program. And	12	project. And again, Ms. Hutchens could
13	they do spend time at capital as well,	13	speak to that particular part, and that
14	obviously, but that's netted out of the	14	particular issue has been set off as a
15	operating cost at least.	15	separate discussion.
16	MR. O'BRIEN:	16	MR. O'BRIEN:
17	Q. I wonder if can we pull up the—page 24 again	17	Q. So, that's taken out of the actuals?
18	there? I do want to, just briefly revisit	18	MR. HAYNES:
19	the overall operating costs. You've got	19	A. The actual. Well, you have a—the actual is
20	your overalls down at the bottom. The	20	right there. It was 948 for the forecast
21	•	21	and the credit back was 2.5. So, if the
1 41	increase from—what your actuals now turned		
1	out to be which was four million dollars	22	cost allocations from Nalcor would have been
22	out to be which was four million dollars	22	
22 23	out to be which was four million dollars less than the forecast, is that fair?	22 23	cost allocations from Nalcor would have been not as high as originally anticipated. So, there's a –
22	out to be which was four million dollars	22	not as high as originally anticipated. So,

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1	Q.	So, that was a cost -	1		142, with respect to the, you know, the
2	MR. HAYNE	S:	2		change in the vacancy allowance, we've
3	A.	There's decrease ofmy reading and Ms.	3		already committed to do things to resolve
4		Hutchens would probably be the better one to	4		that number to be lower based on that.
5		speak to it, but if there was a significant	5	MR. O'BRIE	EN:
6		reduction in the allocated costs for the	6	Q.	And how do you, in your role as president,
7		corporate business systems component because			how do you see that as consistent with least
8		it did not materialize as planned.	8		cost principles?
9	MR. O'BRIE		9	MR. HAYN	
10	Q.	Right.	10	A.	I don't understand your question.
11	MR. HAYNE	•	11	MR. O'BRIE	
12	A.	That would be—there would be less of a	12	Q.	Well, you've got a significant increase
13	11.	credit there. Like they did not—the cost	13	٧.	then, even if you gave 132 as the possible
14		allocation, I—as a matter of fact, I'm want	14		figure (unintelligible) in 2017 to 142, how
15		to back up a little bit because that may be	15		do you see that increase of ten million
16		net of cost allocations in and out, and I	16		dollars a year over year basis as
17		would suggest that maybe Lisa, Ms. Hutchens,	17		consistent?
18			18	MR. HAYN	
1		will be the best one to go down to that there.	19		
19	MR. O'BRIE			A.	Well, what we put forward though is what we
20			20		feel is the amount of money required to
21	Q.	I think I know what you're saying though in	21		operate the way we're operating now, to be
22	MD HANNE	terms of –	22		proactive on storm events, to be proactive
23	MR. HAYNE		23		on changes and the expectations of the way
24	A.	But there were changes, puts and takes	24		we deliver service, that we're covering
25		there.	25		possibilities and that basically we are, you
	A COLORD	Page 130			Page 132
1	MR. O'BRII			1 CD OIDDIES	know, going back to the proactive stance.
2	Q.	Yes.	2	MR. O'BRIE	
3	MR. HAYN		3	Q.	Okay, so –
4	A.	And I'm not—I don't have that level of	4	MR. HAYNE	
5		detail.	5	A.	We would not have always—and we're moving
6	MR. O'BRII		6		that way, and we're doing more of it, and
7	Q.	But that for the most part, even in puts and			it's—that's a progression that we're—we
8		takes there, that's a two-million-dollar	8		think we're delivering the level of service
9		difference?	9		that people expect.
10	MR. HAYN		10	MR. O'BRIE	
11	A.	Yes.	11	Q.	And can you –
12	MR. O'BRII		12	MR. HAYNE	
13	Q.	Right?	13	A.	And we also strongly feel that basically
14	MR. HAYN		14		what we put forward is a cost to do that.
15	A.	Yeah.	15	MR. O'BRIE	
16	MR. O'BRII	EN:	16	Q.	Do you see that as consistent with the
17	Q.	And there's still going to jump from 2017	17		Board's direction to Hydro to implement
18		actual, then let's even say it's 132 to 142?	18		improved processes in relation to
19	MR. HAYN		19		identifying, establishing and documenting
20	A.	Yes.	20		efficiency measures, juggle in a year-over-
21	MR. O'BRII	EN:	21		year basis (unintelligible)?
22	Q.	That's a significant increase over	22	MR. HAYNE	SS:
23		inflation, is it not?	23	A.	Well, we have gone down to—and we'll go back
	1 (D 11 ( 1 D )		24		to the productivity group that we've
24	MR. HAYN	ES:	24		to the productivity group that we ve

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1		that for sustainable savings. In our	1		And we have -
2		performance contracts we have included, you	2	MR. O'BRIE	N:
3		know, we have included performance metrics	3	Q.	And that can be dollars—oh, sorry, go ahead.
4		in there with respect to cost control and	4	MR. HAYNE	S:
5		cost savings. And so, those are all there.	5	A.	No. And with respect to the productivity
6		It's all going towards the same thing. The	6		group, theyyou know, we have people in the
7		performance contracts for executives and	7		various regional offices who also had some
8		other people have budgetary things, do have	8		orientation and an training to this, the
9		a target which specifically is budget. They	9		Lean Six Sigma principle, and they're all
10		have an opportunity which is to bring in	10		engaged to do—to deliver that. Now, that's
11		costs that are below budget. So, you know,	11		just, you know, on-the-corner-of-the-desk
12		we do have processes in place to aid and	12		kind of a job, but they are kind of the
13		abet, reducing our cost and to holding and	13		mentors or the champions in the regions if
14		hopefully reducing the cost on a go-forward	14		you will. So, from that perspective, we
15		basis.	15		think we're going to be there, and the
16	MR. O'BRIE		16		million dollars, what we've incorporated to
17	Q.	How does that assist the customer if it's	17		date.
18	Q.	not built into the 2018 and 2019 test years,	18	MR. O'BRIEN	
19		those efficiencies?	19	Q.	So, that productivity allowance, that's not
20	MR. HAYNI		20	Q.	built in to theobviously not into the 2017
$\frac{20}{21}$	A.		21		actual, but –
$\begin{vmatrix} 21\\22\end{vmatrix}$	A.	What is built in there is basically the	$\begin{vmatrix} 21\\22\end{vmatrix}$	MR. HAYNE	· · · · · · · · · · · · · · · · · · ·
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$		targets that we've had for, you know, for	23	A.	
1		our budget. I'm not quite sure I understand.	23	MR. O'BRIEN	In the 2018 and 2019 budget, it's –
24	MR. O'BRIE		25		It is? It is.
25	MR. OBRIE		25	Q.	
Ι.		Page 134	١.	NO HANDE	Page 136
	Q.	I guess my questionyou've mentioned in	1	MR. HAYNE	
2		terms of setting up that core team to look	2	A.	It is.
3		for efficiencies –	3	MR. O'BRIE	
4	MR. HAYNI		4	Q.	So, otherwise it would be 143—there'll be a
5	A.	Yeah.	5		jump from 130 to 143 and 130 to 146 in those
6	MR. O'BRIE		6		test years?
7	Q.	- but I understood from my—an answer to one		MR. HAYNE	
8		of my questions before that none of that was	8	A.	Yes, had we not put in the productivity
9		efficiencies or necessarily built into the	9		element, yes.
10		test years.	10	MR. O'BRIE	
11	MR. HAYNI		11	Q.	Are you satisfied that's a sufficient
12	A.	No, but they would be part of the	12		productivity allowance to incent Hydro to
13		productivity allowance that we provided for.	13		keep its costs in line with inflation?
14	MR. O'BRIE		14	MR. HAYNE	
15	Q.	Okay. Well, let's talk about that, that	15	A.	I think at this stage it is, but at this
16		productivity allowance. We—there's no	16		stage, like as I keep going back, that you
17		specific instruction about the productivity	17		know, we're not looking for, you know, one-
1			18		shot things that just provide a savings for
18		allowance, is that fair?			
1	MR. HAYNI		19		one year. We want sustainable—and we'll
18	MR. HAYNI A.	ES: There is a mandate to the productivity group			
18 19		ES:	19		one year. We want sustainable—and we'll
18 19 20		ES: There is a mandate to the productivity group	19 20		one year. We want sustainable—and we'll take those if we can, but what we want is
18 19 20 21		ES: There is a mandate to the productivity group from the point of view of, you know, of	19 20 21		one year. We want sustainable—and we'll take those if we can, but what we want is sustainable things in the future, and part
18 19 20 21 22		There is a mandate to the productivity group from the point of view of, you know, of looking for savings, but I won't say that we expect to see, you know, \$200,000 a here or	19 20 21 22		one year. We want sustainable—and we'll take those if we can, but what we want is sustainable things in the future, and part of the discussion, the dialogue that I've had with the team, with that team, with the
18 19 20 21 22 23		ES: There is a mandate to the productivity group from the point of view of, you know, of looking for savings, but I won't say that we	19 20 21 22 23		one year. We want sustainable—and we'll take those if we can, but what we want is sustainable things in the future, and part of the discussion, the dialogue that I've

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1		looking to do everything we can to bring	1	MR. HAYNES	S:
2		whatever value we can, save whatever we can	2		Yes.
3		to allow us to contribute to whatever we	3	MR. O'BRIEN	:
4		can, to the post-Muskrat Falls. Like the	4	Q.	Right? What I want to know is the best you
5		goal here to my mind, in the sense of that	5		can tell us, is to how have you done—how
6		it's long-term savings, long-term value,	6		have you implemented anything so that it's
7		that will help to the degree that Hydro can	7		built into those test years to reduce those
8		from an operating budget and performance	8		test years costs where that they wouldn't
9		point of view, to aid the post-Muskrat	9		have been 150 or 155? What is that you've
10		Falls, which is, you know, the looming	10		done?
11		issue. In the meantime, we did put forward	11	MR. HAYNES	
12		a million dollars in '18 and '19 that we	12		We built a budget from the ground, up,
13		would—we will deliver. And obviously, we	13		basically, on what we require to maintain
14		have targets to—you know, we have targets.	14		the assets we have. We have also added new
15		We want to deliver as much as we can. We	15		assets. We have TL 267 which also needs to
16		will not delay implementing something. If	16		be maintained. You know, we've expanded the
17		we see something that we can bring value, we	17		terminal station at Western Avalon to
18		will not delay it because of what the budget	18		accommodate that, to accommodate the 267 and
19		says. We will do it.	19		Bay d'Espoir as well. So, all those new
20	MR. O'BRIE		20		assets have some—you know, the best folks to
21	Q.	But that's looking outwards beyond the 2019	21		answer those questions would be the VPs
22	Q.	test year, is that fair?	22		responsible. But all of those assets are
23	MR. HAYNE		23		adding additional things that we have to
24	A.	We will take whatever we can.	24		maintain; additional PM routines;
25	MR. O'BRIE		25		additional, you know, line patrols, et
-	THE STEEL	Page 138			Page 140
1	Q.	That won't affect those years?	1		cetera, et cetera. They all accumulate up a
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	MR. HAYNE	·	2		bit, you know, but they're all incremental
$\frac{2}{3}$	Q.	Whatever can identify to save, we will save.	3		obviously, but –
4	Q.	We've identified and said that we will hang	4	MR. O'BRIEN	
5		our hats to this point in time on a million	5		So, in terms of the Board's direction or
6		dollars a year, in addition to the vacancy	6	Q.	Board's concern about not—Hydro not
7		allowance we've conceded to, along with the	7		maintaining its operation costs within a
8		other positions that have absorbed into the	8		measure of let's say inflationary levels,
1		organization. You know, the ECC operators			
9		, ,	9		you're satisfied this is the best Hydro can do for 2018 and 2019 in terms of the least
10		specifically were six, I think, additional	10		
11		staff that we put there because of we're now	11	MR. HAYNE	costs perspective?
12		open-access and doing those things that are	12		
13	MR. O'BRIE	new to Hydro.	13	A. MR. O'BRIEN	Yes, I am.
14			14		
15	Q.	Just before we move from this point, I just	15	Q.	Okay. I'm going to turn to—I just want to
16		want to understand, you've got 2016 actuals	16		ask you some questions about the status of
17		and 2017 actuals which are both under what	17		integration of Hydro's status there. I'm
18		the test year for 2015 provided, one of	18		going to ask; can you tell me about the
19		which is significantly under, and one of	19		status of Hydro's readiness for integration
20	MD HAND	which is two million under. Is that fair?	20	MD HARRY	with North American grid? Just an overview.
	$\Lambda \Pi U = \Pi \Lambda V \Lambda   L$	25.	21	MR. HAYNE	
21	MR. HAYNE	Trl		A	0 - 1 - 4 2 - 1 '-1 1 1 1
21 22	A.	The numbers are the numbers, I agree. Yeah.	22	A.	So, what we've done with—you know, the
21 22 23	A. MR. O'BRIE	N:	23	A.	impacts there from the point of view of
21 22	A.			A.	

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1	all, we created the NLSO which will be the	1	need to adopt all those regulations. What
2	system operator. They will operate the bulk	2	we want to adopt is the regulations that
3	assets on—in the province actually is the	3	are—that we think are good for our customer
4	plan for—from 230 kV and above. That did	4	base, our native load. And there may be a
5	require some additional staff in ECC to	5	few that we have to do, too, from the point
6	manage that and to administer that. The	6	of view of ensuring that we have reached
7	overall, from an integration point of view,	7	reciprocity with other groups that
8	the—you know, if there are customers that	8	basically Hydro-Quebec, for instance, or
9	come, basically we are prepared to do all	9	anybody else in the exterior market, we'll
10	that. We have to provide reciprocity from	10	deal with in NLSO. So, those are the sorts
11	the point of view of the external markets to	11	of things that we've done on integration,
12	allow Hydro—Nalcor basically through—and		from that perspective, but you know, the
13	Hydro indirectly to sell excess recall	13	reality is that we do—we are connected.
14	power, excess of the Muskrat Falls power if	14	There's a certain standard of care, if you
15	it's available to do that, and there's a	15	will, that's expected by the other folks
16	reciprocity requirement to do all that. If	16	that offer, you know, reciprocity and to
17	that were shut down, that would severely	17	allow us to do business out there or I
18	impair our ability to sell excess power	18	should say Nalcor to do business out there,
19	south. We know that we can't use all the	19	which in the end will be selling energy that
20	Muskrat Falls power, so that's all part of	20	is excess to Hydro's needs and energy that
21	that equation. And that will, you know,	21	Nalcor has to sell. So, you know, and from
22	some of those revenues, as we mentioned this	22	rate mitigation point of view, those are
23	morning, certainly from the point of view of	23	critical because if we can sell excess
24	the Hydro share of Muskrat Falls generation	24	power, we have no revenue from that
25	will come back to aid the ratepayer.	25	particular source. So, we have to be
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1	Ideally, we would sell it in the province at	1	cautious that the system that is set up,
2	our rates, as opposed to the market rates	2	that the—that they are providing
3	which are a lower than what they were	3	reciprocity. If it's Hydro-Quebec or Nova
4	anticipated to be, but however, it's still	4	Scotia or anybody else, it doesn't matter.
5	better than spilling the water down the	5	Any external party can come in, and you
6	river, so to speak. So, those are changes	6	know, if we don't meet the test, then we
7	there. The DC systems are new to Hydro.	7	will be challenged.
8	They do bring value in the sense of they do	8	MR. O'BRIEN:
9	allow some frequency control. They do allow	9	Q. So, the transition to operations now, what's
10	some—you know, to prevent some under	10	the ratings for transition? How's that?
11	frequency load shedding events. They do	11	What's the status of that now?
12	allow somethings in the events of emergency	12	MR. HAYNES:
13	to buy power or even on, you know, a peak	13	A. So, that is a Nalcor initiative more or
14	management plan—a peak management process we	14	less, because they are building and
15	can avail of purchases, short-term	15	organization to actually manage and operate
16	purchases, to do that. So, those are the	16	those assets in the sense of day to day, you
17	things that we've done, and you know, from	17	know, doing the maintenance and so on. Now,
18	that perspective. The overall integration	18	that would be undertaken by, primarily by
19	with respect to the new assets is a fair bit	19	the power supply group which, you know, is
20	of dialogue with the—you know, do—you know,	20	basically Nalcor looking after most of
21	how far do we go with respect to, you know,	21	Nalcor's physical assets, whether it's
22	reliability? ReliabilityI'm not looking	22	Churchill Falls, Menihek and LIL, LTA and
23	for the word criteria. Reliability	23	eventually the Muskrat Falls plant. So,
	standards with respect to NEDV (when stick	24	thay are still progressing. They are
24 25	standards with respect to NERK (phonetic), and we've taken the position that we do not	25	they are still progressing. They are staffing up, they're hiring people. Some

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1		obviously are Hydro hires; some are external	1	little bit more detail than I can, but we
2		hires. So, that is happening on a regular	2	have had people move to a power supply, and
3		basis.	3	we've had people come from power supply to
4	MR. O'BRIE	N:	4	Hydro.
5	Q.	Take me through that just in terms of some	5	MR. O'BRIEN:
6		of them are Hydro hires and some are	6	Q. And there's no –
7		external.	7	MR. HAYNES:
8	MR. HAYNE	ES:	8	A. But when the job goes up, people are free to
9	A.	Well, when power supply advertises for a	9	obviously apply for whatever they wish.
10		position, if they hire—if they're	10	That's -
11		advertising for, you know, a technician or	11	MR. O'BRIEN:
12		an electrician, they will—typically they	12	Q. (Inaudible).
13		will have it posted, and we do have	13	MR. HAYNES:
14		employees in Hydro who may apply. And so,	14	A. And we don't want to interfere with that.
15		they may get the job; they may not. And if	15	MR. O'BRIEN:
16		they get the job, then we go through, you	16	Q. There's no design movement for the group of
17		know, our hiring or gating (phonetic) in	17	people from Hydro to Nalcor power supplies.
18		process for, you know, replacement positions	18	MR. HAYNES:
19		or whatever.	19	A. No, no, the only time that there was a
20	MR. O'BRIE	N:	20	specific change there was actually when we
21	Q.	How does that work? Is it—does it take some	21	were doing the realignment between, you know
22		time to replace them? Is there training	22	the Matrix group, where we had an
23		involved and what –	23	Engineering Department. That was the only
24	MR. HAYNE	ES:	24	time there was, you know, a kind of large
25	A.	We have had some—I don't want to say issues.	25	effort to go down and separate Hydro from
		Page 146		Page 148
1		We've had some concerns with some of the	1	Nalcor. Right now, there's no—Nalcor is not
2		hiring that, you know, we may lose too many	2	coming in and—you know we have no things
3		people too soon, but we've also, you know,	3	that I know of in the future, and I can't
4		come to terms with those folks, that	4	imagine there would be where we have a
5		basically we will agree on a transition	5	wholesale movement of a department to, for
6		date. Then they hire a person that may be	6	instance, Power Supply or Nalcor.
7		delayed by two, three, four months or longer	7	MR. O'BRIEN:
8		because we need to—you know, if it's a	8	Q. And in terms of—have you got a process in
9		critical position for us, we obviously don't	9	place I guess in terms of backfilling those
10		want to be left short, you know, shorthanded	10	positions with anybody who does move from
11		in that sense. Some jobs, they can go	11	Hydro to –
12		tomorrow and we will fill because, you know,	12	MR. HAYNES:
13		we know we can get off the street and do the	13	A. Well, it comes back down to the gating
14		job. And some others, some other particular	14	(phonetic) in position, they will—the
15		areas, particularly PNC technicians and	15	manager or supervisor/manager responsible
16		specialities like that, there are no—the	16	will make up a job requisition and go
17		electrical industry is a little bit unique	17	through and look to replace it. And they
18		in some of those things, and we would like	18	have to re-justify to every job, every time.
19		to have some time to actually, you know,	19	There's no carte blanche removal unless we
20		look at how we can get somebody in that	20	all realize and know it's a critical
21		place or even retain them for a longer	21	position that we need today. They will go
22		period of time, if they can do it, and they	22	to a process of re-justifying any vacancy
23		may hire temporary. So, there is a	23	whether they move to Nalcor or whether they
24		discussion and there's a process, and Ms.	24	retired or whatever. That process is pretty
25		Dalley could actually go down to that in a	25	robust in the sense that basically they have
				ž ž

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1	to do up—as if they're looking for a new job	1	MR. O'BRIEN:
2	with no previous incumbent.	2	Q. Yes.
$\frac{1}{3}$	MR. O'BRIEN:	3	MR. HAYNES:
4	Q. So, is it that process what you rely on to	4	A. We look at it from a reliability point of
		5	view. We also look it as an option to
5	make sure that that process is sort of cost	l .	
$\frac{6}{7}$	efficient for the customer?	6	actually reduce our cost in fuel burned in
7	MR. HAYNES:	7	Holyrood. If I could elaborate a little
8	A. Yes, yeah. Yes.	8	bit?
9	MR. O'BRIEN:	9	MR. O'BRIEN:
10	Q. I wonder if we could bring up—there was a	10	Q. Go right ahead.
11	recent Liberty Group First Quarter	11	MR. HAYNES:
12	Monitoring Report, the Integration of Power	12	A. The advantages I see of the taking advantage
13	Supply Facilities, March 15th. Are you	13	of the Labrador Island Link, even if it's a
14	aware of that report?	14	monopole operation, is exactly that, is
15	MR. HAYNES:	15	recall energy. But the other part from a
16	A. Yes.	16	reliability point of view is—I mentioned to
17	MR. O'BRIEN:	17	* 1
		ı	you yesterday, I know the transcript said
18	Q. Is that something that's come to your	18	Holyrood is 40 years, 40 years old. I
19	attention?	19	think—I thought I said 47, but regardless,
20	MR. HAYNES:	20	it's an aging asset. And you know, to—you
21	A. Yeah. Yes.	21	know the analogy I've used before is that
22	MR. O'BRIEN:	22	basically it's like taking your antique car,
23	Q. Okay. And I think that the purpose of the	23	taking it on the highway, and if you're
24	report was for Liberty to report on the	24	going to, you know, drive to Vancouver at
25	progress of transition to operations for	25	110 kilometres an hour, you're not going to
	Page 150		Page 152
1	integration. Is that fair?	1	make it. So, you know, anything that we see
2	MR. HAYNES:	2	to offset a little bit or reduce the
Ι.		$\frac{2}{3}$	
3	A. Yeah, yes, it is. MR. O'BRIEN:	l .	pressure, no pun intended, from the steam
4		4	plant, but reduce the duty of Holyrood, I
5	Q. I wonder if we could mark that as	5	see it as an advantage to actually ensuring
6	information?	6	that we get to the 2021 stage without any
7	GREENE, Q.C.:	7	major needs, major capital or major
8	Q. Information Number 2.	8	intervention in Holyrood. They are aging
9	EXHIBIT ENTERED UPON HEARING AND MARKED AS INFORMATION	9	machines. I mentioned yesterday that they
10	ITEM NO. 2	10	were. Particularly Unit Number 1 and 2, are
11	MR. O'BRIEN:	11	originally rated for 150 megawatts. We've
12	Q. I wonder if we could turn to page 4 of that	12	upgraded them in the late eighties to 170.
13	report, the third paragraph there. "We	13	So, we've mined and actually pushed them a
14	reported previously that we consider the	14	little beyond what their original design
15	availability of recall power from Churchill	15	criteria was, and that's not uncommon for
16	Falls to Soldiers Pond contingent on the	16	1965-designed machines because they were
		17	done with a slide ruler and engineers will
	anargization at Dala Lattha UV/da Link novit		done with a stide fuler and engineers will
17	energization of Pole 1 of the HVdc Link next	ı	
18	winter. It's important to maintaining	18	tend to err on the side of caution if you
18 19	winter. It's important to maintaining reliability on the island interconnected	18 19	tend to err on the side of caution if you will, and put in a little bit of extra fat,
18 19 20	winter. It's important to maintaining reliability on the island interconnected system." So, Liberty has identified that as	18 19 20	tend to err on the side of caution if you will, and put in a little bit of extra fat, if you will. So, we mined all that, but I
18 19 20 21	winter. It's important to maintaining reliability on the island interconnected system." So, Liberty has identified that as important for reliability—for reliability	18 19 20 21	tend to err on the side of caution if you will, and put in a little bit of extra fat, if you will. So, we mined all that, but I think offloading those machines and running
18 19 20 21 22	winter. It's important to maintaining reliability on the island interconnected system." So, Liberty has identified that as	18 19 20 21 22	tend to err on the side of caution if you will, and put in a little bit of extra fat, if you will. So, we mined all that, but I think offloading those machines and running down at a lower load, a more conservative
18 19 20 21	winter. It's important to maintaining reliability on the island interconnected system." So, Liberty has identified that as important for reliability—for reliability	18 19 20 21	tend to err on the side of caution if you will, and put in a little bit of extra fat, if you will. So, we mined all that, but I think offloading those machines and running
18 19 20 21 22	winter. It's important to maintaining reliability on the island interconnected system." So, Liberty has identified that as important for reliability—for reliability purposes, if Hydro does this well, I	18 19 20 21 22	tend to err on the side of caution if you will, and put in a little bit of extra fat, if you will. So, we mined all that, but I think offloading those machines and running down at a lower load, a more conservative
18 19 20 21 22 23	winter. It's important to maintaining reliability on the island interconnected system." So, Liberty has identified that as important for reliability—for reliability purposes, if Hydro does this well, I presume?	18 19 20 21 22 23	tend to err on the side of caution if you will, and put in a little bit of extra fat, if you will. So, we mined all that, but I think offloading those machines and running down at a lower load, a more conservative load, as opposed to being up on the pin, so

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1	With respect to the HVdc Link coming in	1	MR. O'BRIEN:
2	service, we are engaged in that. We are	2	Q. In your review of this particular report,
3	counting on that. We're expecting that by	3	and I know it talks about the integration
4	the middle of this year that it will be in	4	largely, but Liberty was concerned about
5	service, and we realize there's also a	5	progress being made in the fourth quarter
6	transition stage. You know, you don't come	6	last year.
7	in, you know, on—if they were successful in	7	MR. HAYNES:
1	· ·	8	
8	energizing the line on July 1st, there's a		
9	commissioning process that has to happen.	9	MR. O'BRIEN:
10	The fact that you can light a light bulb at	10	Q. Did you note that?
11	the end of it, doesn't mean that we're ready	11	MR. HAYNES:
12	for commercial operation from our	12	A. I read that. I noted that, and I have had
13	perspective. We want to have some	13	meetings with the folks that are involved in
14	sustainable liability and delivery of	14	that there, and I've attended—there is, you
15	meaningful amounts of energy over that line	15	know, a TTO session, I think probably on a
16	before we say, "Yeah, we're good to go."	16	monthly basis where we go down through and
17	There'll also be a transition stage over	17	give up status. They are moving that.
18	time and they progress to Pole 2, monopole,	18	They've done a lot of hires. You know, some
19	then, you know, metallic return to earth	19	of the things that Liberty has mentioned,
20	return, into full bipole. The full bipole,	20	basically kind of slow hiring the staff they
21	obviously is the ideal state, but that's a	21	need to do all that. They've got that under
22	commissioning process that the—they have to	22	control. They are moving aggressively,
23	do to DC. But coming in on a monopole	23	hiring staff to fill those roles and they're
24	basis, is a huge plus to us, from a cost	24	quite competent. They're quite confident
25	point of view and a reliability point of	25	they're going to catch up and not be an
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1	=		
1 1	view necalise we can you know require the	1	issue
1 2	view because we can, you know, reduce the	1 2	issue. MR_O'BRIEN:
2 3	pressure, if you will, on Holyrood	2	MR. O'BRIEN:
3	pressure, if you will, on Holyrood particularly over peak periods.	2 3	MR. O'BRIEN: Q. And where are those staff coming from?
3 4	pressure, if you will, on Holyrood particularly over peak periods.  MR. O'BRIEN:	2 3 4	MR. O'BRIEN: Q. And where are those staff coming from? MR. HAYNES:
3 4 5	pressure, if you will, on Holyrood particularly over peak periods.  MR. O'BRIEN: Q. That's good for the reliability, I guess, in	2 3 4 5	MR. O'BRIEN: Q. And where are those staff coming from? MR. HAYNES: A. Well, they're coming from—some are coming
3 4	pressure, if you will, on Holyrood particularly over peak periods.  MR. O'BRIEN:  Q. That's good for the reliability, I guess, in the winter periods and in the peak periods?	2 3 4	MR. O'BRIEN: Q. And where are those staff coming from? MR. HAYNES: A. Well, they're coming from—some are coming from Hydro, some of them coming from
3 4 5 6 7	pressure, if you will, on Holyrood particularly over peak periods.  MR. O'BRIEN:  Q. That's good for the reliability, I guess, in the winter periods and in the peak periods?  MR. HAYNES:	2 3 4 5 6 7	MR. O'BRIEN: Q. And where are those staff coming from? MR. HAYNES: A. Well, they're coming from—some are coming from Hydro, some of them coming from external, from Churchill Falls, anywhere
3 4 5 6 7 8	pressure, if you will, on Holyrood particularly over peak periods.  MR. O'BRIEN:  Q. That's good for the reliability, I guess, in the winter periods and in the peak periods?  MR. HAYNES:  A. Yes, yeah. Energy, any time we can get it,	2 3 4 5 6 7 8	MR. O'BRIEN: Q. And where are those staff coming from? MR. HAYNES: A. Well, they're coming from—some are coming from Hydro, some of them coming from external, from Churchill Falls, anywhere they can. And I think they've also, you
3 4 5 6 7 8 9	pressure, if you will, on Holyrood particularly over peak periods.  MR. O'BRIEN: Q. That's good for the reliability, I guess, in the winter periods and in the peak periods?  MR. HAYNES: A. Yes, yeah. Energy, any time we can get it, and certainly from a reliability point of	2 3 4 5 6 7 8 9	MR. O'BRIEN: Q. And where are those staff coming from?  MR. HAYNES: A. Well, they're coming from—some are coming from Hydro, some of them coming from external, from Churchill Falls, anywhere they can. And I think they've also, you know they've also had some contractors which
3 4 5 6 7 8 9 10	pressure, if you will, on Holyrood particularly over peak periods.  MR. O'BRIEN:  Q. That's good for the reliability, I guess, in the winter periods and in the peak periods?  MR. HAYNES:  A. Yes, yeah. Energy, any time we can get it, and certainly from a reliability point of view, the winter peak period. And you know,	2 3 4 5 6 7 8 9 10	MR. O'BRIEN: Q. And where are those staff coming from? MR. HAYNES: A. Well, they're coming from—some are coming from Hydro, some of them coming from external, from Churchill Falls, anywhere they can. And I think they've also, you know they've also had some contractors which I think Liberty have mentioned, which is
3 4 5 6 7 8 9 10	pressure, if you will, on Holyrood particularly over peak periods.  MR. O'BRIEN: Q. That's good for the reliability, I guess, in the winter periods and in the peak periods?  MR. HAYNES: A. Yes, yeah. Energy, any time we can get it, and certainly from a reliability point of view, the winter peak period. And you know, the advantage of having the Maritime Link	2 3 4 5 6 7 8 9 10 11	MR. O'BRIEN: Q. And where are those staff coming from? MR. HAYNES: A. Well, they're coming from—some are coming from Hydro, some of them coming from external, from Churchill Falls, anywhere they can. And I think they've also, you know they've also had some contractors which I think Liberty have mentioned, which is quite reasonable because they are—
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	Page 157		Page 159
1	if the DC line was coming in, which is new	1	things?
2	technology and they've had some struggles,	2	MR. HAYNES:
3	at the same time as the plant, and we were	3	A. Roadblocks in the –
4	going to rely on that DC line from, you	4	MR. O'BRIEN:
5	know, starting off at a—you get it up and	5	Q. In the hiring process that might delay
6	commissioned on a 100, 200, 300, 400 and 900	6	things.
7	megawatt basis, and you had failures, we	7	MR. HAYNES:
8	would actually, you know—you know, if that	8	A. I don't think so. I mean, they're
9	line were to fail because you had a pole	9	advertising and there are people out there.
10	trip or a bipole trip, we would be dumping a	10	There's a lot of people looking for jobs,
11	lot of megawatts. We're coming in now,	11	and I mean, they're going to pick the best
12	we're going to have a couple of years of	12	people they can get for those jobs, whether
13	operating experience at—up to 225 megawatts	13	they're internal or external, and I haven't
14	which we think we can absorb on the system	14	heard that they can't hire people. And if
15	without any undue, you know, under-frequency	15	they can't, they can also revert to
16	events. Like is it an advantage because	16	contractors. They do have—they will have
17	it'll be commissioned, largely commissioned,	17	some, you know, agreements I'm sure with the
18	early, operating at a lower load, and if	18	major vendors for some interim period, as
19	there are consequences of performance, they	19	long as the warranty, I presume.
20	won't be when we're going to be subject of	20	MR. O'BRIEN:
21	losing, you know, an 800-megawatt infeed.	21	Q. Do you see any significant concern for
22	So, it's not all negative from that	22	increases, costs, to Hydro?
23	perspective.	23	MR. HAYNES:
24	MR. O'BRIEN:	24	A. I don't think so. I do think what they put
25	Q. And I noted in the report and I can take you	25	forward, as we mentioned yesterday, what
	Page 158	25	Page 160
1	some portions if necessary, but Liberty was	1	they put forward in the OPEX costs in the
2	indicating that they were concerned about	2	short term, I think are numbers which they
3	the status of moving forward and that the	3	felt comfortable to deliver. I have not
4	next quarter would sort of tell the tale.	4	heard that those numbers will increase.
5	MR. HAYNES:	5	MR. O'BRIEN:
6	A. Yes.	6	Q. I wonder if we could just quickly turn to
7	MR. O'BRIEN:	7	page 10 there, to the bottom, Liberty's
8	Q. Can you give the status on how that quarter	8	conclusion at the bottom of that. And
9	Q. Can you give the status on now that quarter	9	Liberty gives a conclusion there that, "From
10	MR. HAYNES:	10	an overall perspective, management is
11		11	engaged and knowledgeable about that it
12	A. I haven't seen anything on it. I haven't	12	needs to do. However, our assessment of the
1	seen anything doing, but I'm assured that	ı	· · · · · · · · · · · · · · · · · · ·
13	based on the meetings that we have had and things that I'm aware, that they are hiring	13 14	volume of activities accomplished versus
14		15	required to be done at work completion does
15	people, and they are trying to progress that	ı	not ally with management's expression of
16	project, and they're quite confident they're	16	confidence." Do you know if that's changed
17	going to deliver it on time, and they'll	17 18	at all? Have you heard of Liberty changing
18	have enough of the right people to maintain	ı	its position in that regard? MR. HAYNES:
19	it. And you know, we are keenly interested	19	
20	in their success. We think the LIL coming	20	A. I'm not aware of Liberty changing its
21	in early is huge advantage to our customers	21	position. I'm sure that the folks in the
22	at the end of the day. MR. O'BRIEN:	22	power supply side of the world have paid a
23		23	lot of attention to that. I do know they've
24	Q. Do you see any potential roadblocks in terms	24	hired a lot of people, and they've hired
25	of that hiring process that might delay	25	senior folks from Churchill Falls and from

Page 161  1 Hydro to facilitate moving on and advancing 2 that. So, they have, you know, they have 3 hired people in the—in recent times, in the  1 MR. HAYNES: 2 A. Yeah, in the 2018 3 MR. O'BRIEN:	
that. So, they have, you know, they have hired people in the—in recent times, in the 3 MR. O'BRIEN:	Page 163
that. So, they have, you know, they have hired people in the—in recent times, in the 3 MR. O'BRIEN:	_
3 hired people in the—in recent times, in the 3 MR. O'BRIEN:	-2019 ves
	2017, yes.
4 last quarter of last year, that would—you 4 Q. Yes.	
5 know, senior people. I think one or two 5 MR. HAYNES:	
6 folks moved down from Churchill Falls. 6 A. Yeah.	
7 They've hired someone from Bay d'Espoir. 7 MR. O'BRIEN:	
8 So, they are progressing and moving along 8 Q. No, no, the ballpa	rk of the number of
9 with that. 9 employees in the	NLSO.
10 MR. O'BRIEN: 10 MR. HAYNES:	
	ditional folks in it?
individuals who are presently employed in 12 MR. O'BRIEN:	#1V1011W1 101110 111 1V
the NLSO, they can—they're employed with 13 Q. No, no, in total.	
15 MR. HAYNES: 15 A. Mr. LeBlanc can a	answer it.
16 A. They're Hydro employees. 16 MR. O'BRIEN:	
17 MR. O'BRIEN: 17 Q. Yes.	
18 Q. So, they're Hydro employees? 18 MR. HAYNES:	
19 MR. HAYNES: 19 A. I don't know the s	specific number.
20 A. Yeah, we basically increased another person 20 MR. O'BRIEN:	
21 on the shift, another operator to actually 21 Q. All right.	
look at the DC systems and from that 22 MR. HAYNES:	
· I	re we did add six in total.
24 primarily from our Operations folks. Some 24 MR. O'BRIEN:	te we ara ada six iii totar.
7 1 7 7	
Page 162	Page 164
1 4 10 11470100	
1 So - 1 MR. HAYNES:	
2 MR. O'BRIEN: 2 A. You know, you car	n put another on shift. It
2 MR. O'BRIEN: 2 A. You know, you car	n put another on shift. It need five people to do a
2 MR. O'BRIEN: 2 A. You know, you car 3 Q. And were their positions backfilled? 3 requires five. You	
2 MR. O'BRIEN: 3 Q. And were their positions backfilled? 4 MR. HAYNES: 2 A. You know, you car requires five. You 4 24/7 operation.	
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1	Q. Okay.	1	manager. There is a code of conduct	
2	MR. HAYNES:	2	requiring them there. They can communicate	
3	A. Ms. Hutchens could confirm, but I expect it	3	and cooperate with the production folks from	
4	was probably January 1. I'm not quite sure.	4	the point of view of trying to see what's	
5	MR. O'BRIEN:	5	available and how we optimize the assets,	
6	Q. Okay. Was that of 2018 or 2017?	6	reservoirs and so on. There is no	
1 7	MR. HAYNES:	7	communication between them and the, for	
8	A. 2018.	8	instance, the marketing folks with Nalcor	
9	MR. O'BRIEN:	9	because that's not allowed. That's not	
10	Q. 2018, yes. And there's one more to be	10	allowed and there's—we're pretty strict and	
11	transferred?	11	rigid on that there. And basically, they	
12	MR. HAYNES:	12	only—marketing folks only find out the	
13	A. No, I don't think so.	13	status of any plans for transmission	
14	MR. O'BRIEN:	14	outages, or the transmission status or what	
15	Q. No?	15	the capacity is at the same time as it's	
16	MR. HAYNES:	16	posted on the website for everybody else to	
17	A. I think we're –	17	see, be it Hydro-Quebec or Nova Scotia or	
18	MR. O'BRIEN:	18	whomever.	
19	Q. You're fully stocked?	19	MR. O'BRIEN:	
20	MR. HAYNES:	20	Q. So, in terms of being ready for transition	
21	A. Mr. LeBlanc could answer that question.	21	of operations, NLSO is ready now?	
22	MR. O'BRIEN:	22	MR. HAYNES:	
23	Q. Right.	23	A. NLSO. There may be a few things to do. I	
24	MR. HAYNES:	24	mean there are—you know, we are still	
25	A. But I'm quite sure we're probably where we	25	commissioning and putting in data points	
23	1 1 2	23	<u> </u>	
,	Page 166	,	Page 168	
	need to be right now. MR. O'BRIEN:		with respect to Soldiers Pond, well, some	
2		2	Soldiers Pond, but certainly the DC system,	
3	Q. Okay. In the future, is there a plan that	3	the Muskrat Falls station, and some	
4	any of these costs from these particular	4	Churchill Falls (unintelligible), the	
5	employees could be borne by transmission	5	station, the new station at Muskrat Falls—	
6	tariffs, these operating costs, once Muskrat	6	Churchill Falls to accommodate all that.	
7	Falls comes on line?	7	So, those are things that actually go into	
8	MR. HAYNES:	8	the control centre, but that's mostly the—	
9	A. I would suggest that the—Mr. LeBlanc would	9	not the operators. Other than the fact that	
10	be the best one to detail how the NLSO and	10	they're now going to operate these assets,	
11	transmission tariffs all operates, how that	11	but from the point of view of the—that the	
12	all operates. I would expect it would be	12	control system and the energy management	
13	cost if there were third-party users of the	13	system, those points are all being put in.	
14	line, yes, but Ron, Mr. LeBlanc, could	14	So, that's a bit of an ongoing thing until	
15	actually get into the detail of how that	15	the projects are fully completed and	
16	works.	16	commissioned. And they will eventually	
17	MR. O'BRIEN:	17	include the Muskrat Falls plant as well in,	
18	Q. Let me look at just sort of the overall sort	18	you know, in the 2019 timeframe.	
19	of high-level approach. You've got a	19	MR. O'BRIEN:	
20	functional and corporate separation between	20	Q. So, is there any real additional costs	
21	the NLSO and Hydro, is that fair?	21	anticipated going forward with those?	
22	MR. HAYNES:	22	MR. HAYNES:	
23	A. Yeah, they are a department. They are a	23	A. Most of those integration cost there will be	
24	department that work under Transmission and		capital costs as charged off to the project,	
25	Distribution and NLSO with a general	25	to the—there would be very little, if any,	

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1	operating costs associated with those,	1	little bit of history, I guess. In 1999 the
2	integrating all those data points.	2	full recapture was exercised from Churchill
3	MR. O'BRIEN:	3	Falls, and basically was sold to Hydro-
4	Q. And you talked about how they, these	4	Quebec for a number of years, basically, you
5	employees, would operate Hydro facilities?	5	know at an increased cost which was a
6	Is that how—how does that work, their role	6	significant benefit to Churchill.
7	in operation of the facilities?	7	Eventually, that contract was not renewed,
8	MR. HAYNES:	8	and basically, we were—they, Nalcor, were
	A. The Energy Control Centre?	9	contracting I believe Emera or Nova Scotia
10	MR. O'BRIEN:	10	Power, one or the other, to actually sell it
11	Q. Yes.	11	on their behalf. They did a review. They
12	MR. HAYNES:	12	looked at what the best way to do all that
1		13	· · · · · · · · · · · · · · · · · · ·
13	A. So, basically, they will—they do basically		was, and they determined at the time that
14	all the permitting, if you will, for the	14	the best thing to do was set up an
15	transmission lines coming in and out of	15	independent group within Nalcor that would
16	service for maintenance. They administer,	16	actually market that power. And so, they
17	if youthey won't administer, they perform	17	have structured a system. They have
18	any operations with respect to re-	18	employees. It's actually a very impressive
19	dispatching generation or calling for	19	operation from the point of view of what
20	generation put online because of the	20	they're doing, and they sellright now they
21	contingency, but the day-to-day production	21	sell recapture that's inthat is in excess
22	planning from the point of view of, you	22	of Labrador's needs. The intention was as
23	know, how much thermal generation we have	23	well, obviously, that they would sell any
24	and things like that, that basically comes	24	Muskrat Falls power that'll let—that Nalcor
25	from Ms. Williams in the Generation	25	are entitled to, which is above, what I
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1	Department. But you know—and I should say,	1	mentioned was a sanctioned load—the
2	not only do they only operate the bulk	2	sanctioned load forecast line, and our
3	electrical system, they also operate, you	3	forecast has tapered off a bit from that—
4	know, the 138 kV lines, the 169 kV GMP, but	4	what was done at the time. And they would
5	that's not part of the open access system.	5	also sell any excess Muskrat Falls power
6	That's kind of our native load, and they	6	that Hydro has on the external market as
7	continue to do that. So, not all of their	7	well, but those funds come back to Hydro.
8	costs is allocated or associated with the,	8	Okay?
9	you know, the open access part of the world.	9	MR. O'BRIEN:
10	MR. O'BRIEN:	10	Q. So, they would sell that extra? We talked
11	Q. I guess that's where I was looking for	11	about earlier about the excess that was
12	(inaudible).	12	going to Hydro.
13	MR. HAYNES:	13	MR. HAYNES:
14	A. No, no, no, they still have to do all that.	14	A. Yes.
15	We, you know—we would never propose to set	15	MR. O'BRIEN:
16	up a separate, you know, centre just for the	16	Q. As well as the amount (unintelligible) both
17	non-bulk system. That would be	17	of those?
	•		MR. HAYNES:
18	irresponsible from a cost point of view. MR. O'BRIEN:	18	
19		19	A. Yes.
20	Q. Okay. And the Nalcor Energy marketing, we	20	MR. O'BRIEN:
21	talked about that earlier. So, that's the	21	Q. All right.
	purchasing—that's purchasing power for—or	22	MR. HAYNES:
22		22	Λ 37 - 1. Λ 1 1 1 ' · C
23	purchasing agency, is it, for –	23	A. Yeah. And you know, and it, from my
		23 24 25	A. Yeah. And you know, and it, from my perspective, it makes a lot of sense, too, that we would not go out there and duplicate

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1		that, that particular—and they have a very	1	marketing perspective, the operator would be
2		competent group. They've done a great job	2	outside the utility, but this is kind of a
3		from what I see and reports that I've read.	3	reverse scenario than what I thought
4		And so, they're—I think it a well position	4	(unintelligible).
5		to actually execute that on our behalf. We	5	MR. HAYNES:
6		have work to do with that obviously, you	6	A. But they have an expertise on that market
7		know, from the point of view of how it all	7	and operating in the market for a number of
8		works, from a contractual point of view, and	8	years, that we don't have. We think it's
9		that's an ongoing process, but we'll get	9	quite reasonable for—actually, you know, to
10		there.	10	avail of their services and do that for
11	MR. O'BRIEN	N:	11	Hydro, for Hydro's portion of the excess.
12	Q.	And there's no, in terms of the code of	12	MR. O'BRIEN:
13		conduct you talk about, there's no direct	13	Q. And was this a decision made by Hydro,
14		connection between that purchasing agency	14	Nalcor, government?
15		and the NLSO in terms of instructions and –	15	MR. HAYNES:
16	MR. HAYNE		16	A. I would suggest –
17	A.	No. No, the NLSO are—is locked up, 24/7.	17	MR. O'BRIEN:
18		You can't go in there if you don't have any	18	Q. A combination of them all?
19		business in there. It's a secured location	19	MR. HAYNES:
20		and there are VPs that don't have access to	20	A. It was a decision made quite a long time ago
21		that area, in fact.	21	by Nalcor at the time, but I don't think
22	MR. O'BRIEN	•	22	there's anything wrong with that decision.
23	Q.	All right. Let me ask you just in terms of	23	Personally, I think it's a prudent way to
24		that setup, is that—if you looked at other	24	go. It's a cost-effective way to go.
25		jurisdictions, is that a similar type of	25	Otherwise, we would be duplicating
		Page 174		Page 176
1		setup where you have the operating agency	1	resources, selling components of Muskrat
2		within the utility and the marketing or	2	Falls excess whether it's in the Hydro
3		purchase agency outside?	3	ownership or the Nalcor ownership. There
4	MR. HAYNE		4	are two components.
5	A.	It's been done several different ways, in	5	MR. O'BRIEN:
6		different areas. Some people have gone one	6	Q. And has Hydro looked at whether or not
7		way and come back. There's no standard for	7	there's a most-effective approach for
8		that there. We have looked at that part,	8	customers or is this –
9		and we think that's a reasonable way to do	9	MR. HAYNES:
10		it. The—and your question is specific to	10	A. Well, we haven't looked at it. We haven't
11		the marketing folks, right?	11	gone back and revisited that decision. I
12	MR. O'BRIEN	Ç , Ç	12	think—I don't think it'sit warrants
13	Q.	Yes.	13	actually a lot of effort to go back and do
14	MR. HAYNE		14	that. I think having two entities in Nalcor
15	A.	Yeah.	15	or the Nalcor group of companies that would
16	MR. O'BRIEN		16	be doing the same thing would be, you know,
17	Q.	I mean, just like normally –	17	a waste of money. I think it's along the
18	MR. HAYNE		18	lines of the same discussion we had on the
1	A.	Yeah.	19	HR role or supply chain. You know, we have
1 19			20	to negotiate and settle how we're doing all
19 20	MR. O'BRIEN	N:		
20	MR. O'BRIEN			•
20 21		Well, I shouldn't say normally, because	21	the exchanges of money or whatever, but that
20 21 22	MR. O'BRIEN	Well, I shouldn't say normally, because you'd know more about than I would, but in	21 22	•
20 21 22 23	MR. O'BRIEN	Well, I shouldn't say normally, because you'd know more about than I would, but in terms of—I would have thought from a	21 22 23	the exchanges of money or whatever, but that is a work in progress.  MR. O'BRIEN:
20 21 22	MR. O'BRIEN	Well, I shouldn't say normally, because you'd know more about than I would, but in	21 22	the exchanges of money or whatever, but that is a work in progress.

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		Page 177			Page 179
1	_		1	Q.	It's not like you're giving direction to
2	MR. HAYNES:		2		Nalcor Energy –
3	A. They do it and the	ey deliver—basically, we	3	MR. HAYNE	S:
4		ottom Brook for instance	4	A.	Yeah, we're looking for least cost and, you
5	of the Maritime L	ink.	5		know—we also have to recognize that there
6	MR. O'BRIEN:		6		are other costs besides the purchase of
7	Q. Right.		7		power. They have to pay—they have to get it
8	MR. HAYNES:		8		through Nova Scotia. They have to get it
9		y transmission rights over	9		over to—over the Maritime Link. And so,
10		x. Nalcor does; we don't.	10		there may be other tariffs that they have to
11	MR. O'BRIEN:		11		provide, pay for, besides the cost of supply
12		Hydro be able to determine	12		itself. It's buying the energy.
13		ases made by Nalcor Energy	13	MR. O'BRIEN	N:
14	on behalf of Hydr	o met with least-cost	14	Q.	Yes.
15	principles?		15	MR. HAYNE	S:
16	MR. HAYNES:		16	A.	And getting it to Bottom Brook.
17		tion, but I think we've	17	MR. O'BRIEN	
18		some of those things from the	18	Q.	So, put aside the actual figures and the
19		ne questions that were	19		purchase price and that sort of thing.
20		ed that some of things be	20	MR. HAYNE	
21	done on a—in cor	nfidence if you will because,	21	A.	Yeah.
22		operating or Nalcor is	22	MR. O'BRIEN	N:
23		pen market. They have	23	Q.	Would there be written guidelines that Hydro
24	confidentiality agr	reements with other folks	24		has with Nalcor or even to Nalcor Energy on
25	that they're buyin	g from, and those things I	25		-
		Page 178			Page 180
1		petter left to the resolution	1	MR. HAYNE	
2	of the motion we	e put forward with respect to	2	A.	There's a –
3	-		3	MR. O'BRIE	
4	MR. O'BRIEN:		4	Q.	- marketing on how to approach this on cost,
5		he actual outcome of it.	5		these costs?
6	MR. HAYNES:		6	MR. HAYNE	
7	A. Okay.		7	A.	At the moment there's a lot of dialogue, you
8	MR. O'BRIEN:		8		know, and we are we preparing to actually
9		ing, is there a process that	9		try to formalize that, but there's a lot of
10	Hydro would –		10		dialogue and meetings on an ongoing basis
11	MR. HAYNES:		11		between Nalcor Energy marketing, and the
12		cost of our—our options	12		Production Division of Hydro, and Ms.
13		our most expensive cost of	13		Williams could actually speak in a lot more
14	1 0	is Holyrood, our gas	14		detail to the parameters. But basically,
15		, but the normal base power	15		they do not make any buy decisions without
16	-	ood. And we're comfortable	16		our—in the sense that they don't anything
17		ng that cost. You know,	17		without our approval.
18		heir buying it on the	18	MR. O'BRIE	
19		o to tender, you know, these	19	Q.	Okay.
20		ning on a daily sort of	20	MR. HAYNE	
21	•	now how you'd do that from	21	A.	So, you know, they don't say, "Here it is.
22		of, you know, a longer term.	22		You've got to take it." We basically
	You can't go to	tender for something you	23		approve that. It has to be lower than what
23		6,7			
23 24 25	need tomorrow. MR. O'BRIEN:		24 25		our cost is. We have to look at how we integrate that with Holyrood. You know, we

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1	operate the Holyrood machines at a minimum	1	A. Holyrood CT likes to be at no less than 40
2	load of 70 megawatts, and ideally, if you	2	megawatts a load.
3	can shut down a machine, you save money, but		MR. O'BRIEN:
4	if you're coming back down—so, the decisions	4	Q. Not as efficient otherwise, is it?
5	aren't—the decisions are pretty technical in	5	MR. HAYNES:
6	that sense that we have to make sure we meet	6	A. Pardon?
7	our capacity requirement and also avail of	7	MR. O'BRIEN:
8	trying to get cheaper energy. So, those two	8	Q. It's not as efficient otherwise?
9	things.	9	MR. HAYNES:
10	MR. O'BRIEN:	10	A. It's not as efficient, but basically if you
11	Q. So, there's balancing there?	11	need 20 megawatts or 30 megawatts over peak,
12	MR. HAYNES:	12	if you start the Holyrood gas turbine, then
13		13	
1	1 ,		basically you have to run it at 40. And
14	and quite engaged in that process with the	14	obviously the fuel burned in a gas turbine
15	marketing folks.	15	is a lot more significant than it is at the,
16	MR. O'BRIEN:	16	burning Bunker C. So, those decisions are
17	Q. So, is the analysis ahead of time or just	17	made, you know. I mentioned the—I mentioned
18	before you purchase or after?	18	I think yesterday that there's, you know, a
19	MR. HAYNES:	19	daily analysis done early in the morning.
20	A. Oh, I'll give you maybe an example, you	20	You know, there's an email usually that I
21	know. You know, we had anticipated that the	21	see, you know, around 7:00 or 7:30, if not
22	Maritime Link would be in service in—early	22	earlier some days. It's an email that comes
23	in January. That didn't happen until later	23	through basically looking at the day's
24	on in February. And in January, we would	24	prognosis for demand requirements. And the
25	have had, you know, a lot more appetite to	25	day before there's a look, and if they see
	Page 182		Page 184
1	actually buying energy from the point of	1	that there's a need to—you know, that we
2	view of economic energy that would displace	2	made a gas turbine, we'll look at our
3	Holyrood, would allow us to build a bit of	3	options to not do that because we can buy
4	water in the reservoirs because you know,	4	off the market, you know, through NEM.
5	our levels were a little bit lower than we	5	MR. O'BRIEN:
6	would normally, but nothing to be concerned	6	Q. And those are, those decisions, are made
7	about. On a day-to-day basis right now—so,	7	daily?
8	we missed that opportunity for buying a lot	8	MR. HAYNES:
9	of energy because it came in February, and I	9	A. Yes, and as I said, the mechanics and the
10	think we bought so far about—less than 22	10	level of detail, Ms. Williams would be the
11	gigawatt hours or so of energy so far from	11	best one to actually detail that.
12	that. But on an ongoing basis, if we see	12	MR. O'BRIEN:
13	that we have, you know, a very cold day	13	Q. I'm going to return to that just a little
14	tomorrow and we anticipate we may have to	14	bit later, but I'm going ask—I'm going to
15	operate a gas turbine, we would come back	15	move to another topic here, Mr. Haynes, and
16	and see if we can actually buy power from	16	I'm going to ask you just some questions
17	over the Maritime Link to preclude starting	17	about capital expenditures. I wonder if we
18	1	18	1 1
	the gas turbine, particularly—primarily the		could pull up page 3 point 42 of the
19	Holyrood gas turbine, the large one. The	19	evidence? That's good. Under Capital
20	other gas turbines we operate, they're not	20	Costs. So, what's reflected in the test
21	as—they don't have a minimum loading	21	year of twenty—oh, sorry, 2018. I want to
22	requirement like the one at Holyrood.	22	have a look at some of that. In this sort
23	MR. O'BRIEN:	23	of passage, it indicates Hydro's forecast to
24	Q. Holyrood CT.	24	spend—and I was looking at line 11, 2017,
25	MR. HAYNES:	25	approximately 370 million including 167

2 <b>1</b> P111	17, 2018		NL Hydro 2017 GRA
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1	million on the transmission infrastructure.	1	there was an aggressive—I think when TL 267
2	That's the TL 266, was it? (Inaudible)	2	was originally put in the budget, it was
3	that?	3	planned to be delivered in 2018.
4	MR. HAYNES:	4	MR. O'BRIEN:
5	A. Well, in 2017, primarily it was the TL 267.	5	Q. Yes.
6	MR. O'BRIEN:	6	MR. HAYNES:
7	Q. Sorry, that's when I meant, sorry.	7	A. So, we basically—you know, we saw, you know,
8	MR. HAYNES:	8	a lot of benefit to the consumer, a benefit
9	A. Yeah, and there was some 266, and more 267	9	to the Avalon of getting power in.
10	work.	10	Reduction in losses. So, we've actually
1	MR, O'BRIEN:	I	
11		11	accelerated that project and we also delayed
12	Q. Yes.	12	actually some portions of TL 266. We like—
13	MR. HAYNES:	13	we went back and there were changes made
14	A. There's more 266 work this year.	14	that basically we felt were the right thing
15	MR. O'BRIEN:	15	to do from a customer point of view,
16	Q. And if we scroll down to 19, line 19, so in	16	particularly 267 which has brought a
17	the test years, Hydro is proposing to spend	17	tremendous amount of value from a
18	206 million in 2018, fair?	18	reliability point of view, a reduction over
19	MR. HAYNES:	19	energy losses over the line. And also, it
20	A. Yes.	20	also eliminated largely the fact that we
21	MR. O'BRIEN:	21	have to look at the Avalon Peninsula as a
22	Q. And 2019, where's the number for 2019? So,	22	separate zone from the point of view of peak
23	scroll down. Scroll down here, okay. I	23	planning because, you know, we can get
24	want to sort of talk to you about the	24	another 60, 70 megawatts in from Bay
25	capital expenditures and carry-overs over	25	d'Espoir over peak.
	Page 186		Page 188
1	time within Hydro. And maybe the best place	1	MR. O'BRIEN:
2	to do it is to look at the Capital	$\frac{1}{2}$	Q. Right.
3	Expenditures and Carry-Over Report that's	$\frac{2}{3}$	MR. HAYNES:
4	attached to Information 1. There's a table	I	MIN, HATNES.
1	attached to information 1. There's a table	1 1	A So there was a retionalization of doing
	in them. Theme's same discussion about in	4	A. So, there was a rationalization of doing
5	in there. There's some discussion about in	5	that. Now –
6	the last year and I just want to get your	5 6	that. Now – MR. O'BRIEN:
6 7	the last year and I just want to get your take on it. Page 52. Okay, so there's a	5 6 7	that. Now –  MR. O'BRIEN:  Q. And it's noted here I think, even -
6 7 8	the last year and I just want to get your take on it. Page 52. Okay, so there's a history there of capital budgets,	5 6 7 8	that. Now –  MR. O'BRIEN: Q. And it's noted here I think, even -  MR. HAYNES:
6 7 8 9	the last year and I just want to get your take on it. Page 52. Okay, so there's a history there of capital budgets, expenditures and variances there from 20—	5 6 7 8 9	that. Now –  MR. O'BRIEN: Q. And it's noted here I think, even -  MR. HAYNES: A. Yeah.
6 7 8 9 10	the last year and I just want to get your take on it. Page 52. Okay, so there's a history there of capital budgets, expenditures and variances there from 20—from 2007 to 2017. And as I mentioned, in	5 6 7 8 9 10	that. Now –  MR. O'BRIEN: Q. And it's noted here I think, even -  MR. HAYNES: A. Yeah.  MR. O'BRIEN:
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1	MR. O'BRIEN:		1	MR. HAYNE	S:
2	Q. Yes.		2	A.	So, that's not actually overall closed. The
3	MR. HAYNI	ES:	3		asset part I think—I forget the total dollar
4	A.	You know, you're trading off a couple of	4		value that was actually, you know, deemed to
5		things there. We advanced TL 267 and we	5		be in service, but you know, that part was
6		delayed TL 266. So –	6		delivered early, and we expect to close that
7	MR. O'BRIE		7		budget overall within budget.
8	Q.	Right. So, would you have moved something	8	MR. O'BRIE	
9		similar to the 38 million dollars from 2018	9	Q.	Okay. And in terms of –
10		that was moved back into 2018 from 2017?	10	MR. HAYNE	
11	MR. HAYNI		11	Α.	Which I would commend the engineering folks
12	A.	I can't speak to that in particular, but Mr.	12		for actually doing it actually.
13	11.	Gardiner, who is the vice-president of	13	MR. O'BRIE	
14		Engineering, is fully fluent on—and very	14	Q.	And in terms of the overall variance though
15		engaged in the overall capital budget and	15	Q.	that this, I'll indicate, I mean most of
16		those. He could speak to the specific	16		these years have a variance over ten
17		projects like that.	17		percent. Has Hydro looked at its budgeting
18	MR. O'BRIE		18		process and budgeting guidelines, to address
19	Q.	Okay. Let me ask you on a higher level,	19		that?
20	Q.	when you see variances in excess of ten	20	MR. HAYNE	
21		· ·	21	A.	
22		percent over two years, so you're required	22	A.	I would ask Mr.—I would suggest that you
23		to provide some explanation on that, are you	23		speak to Mr. Gardiner. My instructions to
23	MR. HAYNI	not, for the budget.	23		Terry, to Mr. Gardiner, were basically we
25	MIK. HATNI A.		25		want our budgets to be as accurate as we
23	Α.	Yes, to the Board and on a—particularly on a	23		can.
1		Page 190	1	MD O'DDIE	Page 192
	MR. O'BRI	project-by-project basis.	1	MR. O'BRIE	
2			2	Q.	Right.
3	Q.	Right.	3	MR. HAYNI	
4	MR. HAYN		4	A.	You know, there is a balance sometimes of
5	A.	If a capital project went over by ten	5		how far you go doing front engineering
6		percent. Now, some of things are moving	6		versus the value you get at the end of the
7	MD OIDDH	things around.	7		day. And you know, the contingency is there
8	MR. O'BRII		8	MD O'DDIE	and so on. So, you try to balance that.
9	Q.	Right.	9	MR. O'BRIE	
10	MR. HAYN		10	Q.	Yes.
11	A.	So, as I said, Mr. Gardiner could explain	11	MR. HAYNI	
12		that, but any project that goes over by ten	12	A.	But you know, a bigger project requires more
13		percent, is actually scrutinized. And from	13		scrutiny. Some of the ones are based on
14		that I would add that on TL 267, that	14		past practice, particularly in some of the
15		particular work order is not closed yet	15		isolated areas where we know it costs X
16		because we basically delivered a line,	16		dollars to install a diesel. Occasionally
17		there's over carry-over work, clean up and	17		you may get in trouble on certain things or
18		things like that that have to happen in 28	18		whatever, but there is an effort on their
19	MD ODER	(sic.).	19		project and their project managers are—have
20	MR. O'BRII		20		targets on bringing stuff in on time and on
21	Q.	Rolled into 2018?	21		budget. I think you'd have to look under
22	MR. HAYN		22		the covers there from the point of view of
23	A.	In this year.	23		finding out whether that's deferred projects
24 25	MR. O'BRI		24		or additional projects or if it's actually a
	Q.	Yes, okay.	25		variance on each particular capital job.

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1	MR. O'BRIEN:	1	Q. Okay.
2	Q. Do you know if Hydro had looked under the	2	MR. HAYNES:
3	covers of those figures?	3	A. But at the end of the day, it's the actual
4	MR. HAYNES:	4	final capital costs in each of these
5	A. I know that Mr. Gardiner has. They look at	5	projects that would be—and obviously, they
1 .	each project. They do a review each year,	6	add up to what they add up to be. We have
6		7	1 , 1
7	on an ongoing basis actually, but		to keep an eye on that there, but from a
8	particularly a year-end review of whether—	8	diligence point of view on the measurement
9	you know, probably in the early part of this	9	of engineering success would be, you know,
10	year to look at each project. You know, do	10	on time and on budget delivery of projects.
11	they come on above or below the ten-percent	11	And they doTerry, Mr. Gardiner, measures
12	target? But you know, we have moved	12	his folks on that regularly.
13	projects around. So, that kind of—that	13	MR. O'BRIEN:
14	school the overall total number of it, but	14	Q. And what sort of instruction do you give on
15	as I said, Mr. Gardiner could explain that	15	that regularly?
16	in more detail that I could. In the	16	MR. HAYNES:
17	meantime, I think .1 is pretty good, but I –	17	A. Well, my instruction is that basically we
18	UNKNOWN SPEAKER MALE:	18	want them on time, on budget. We want
19	Q. I'll give you that.	19	budgets that are bringing value to the
20	MR. HAYNES:	20	customer in the sense of reliability. You
21	A. But it is fiction.	21	know there have been increased costs over
22	UNKNOWN SPEAKER MALE:	22	the last number of years. There're—
23	Q. I'll give the .1 is fiction.	23	obviously, there's an increased attention to
24	MR. O'BRIEN:	24	safety which is obviously, you know, a must-
25	Q. But I think you'll agree with me that if you	25	do, but basically the estimates should be
25	• • • • • • • • • • • • • • • • • • • •		<u>·</u>
,	Page 194	1	Page 196
	move 38 million dollars from 2018 into 2017,	1	timely. They should be fulsome in the sense
2	that gave you the .1?	2	that they cover all the risks that we have,
3	MR. HAYNES:	3	and the contingency based on the amount of
4	A. Oh yes. I mean we did do that, but we also,	4	effort that goes into the budgetary estimate
5	you know, we also delayed the, you know, the	5	in the first place, but –
6	TL 267—sorry, the 266 to 2018. So –	6	MR. O'BRIEN:
7	MR. O'BRIEN:	7	Q. And do you agree that their budgets are off
8	Q. Okay.	8	by a significant amount each year, for
9	MR. HAYNES:	9	individual ones, then budget guidelines
10	A. Yeah, so—but I would spend –	10	should be looked at?
11	MR. O'BRIEN:	11	MR. HAYNES:
12	Q. But you're not aware of any –	12	A. Well, they have budget guidelines to do it,
13	MR. HAYNES:	13	but you know, there are changes in the
14	Q. I would spend—well, I would be most	14	operating environment. We change
15	concerned if our individual capital budgets	15	priorities. We have, you know, we have done
16	were constantly over by more than 10, 15, 20	16	that. We've also had supplemental budget
17	percent.	17	applications for things on capital that were
18	MR. O'BRIEN:	18	unforeseen. And you know, the penstocks at
19	Q. The individual ones versus the overall?	19	Bay d'Espoir obviously in 2016 was a
20	MR. HAYNES:	20	significant one. We had a further issue in
21	A. The individuals ones where—yeah. I know	21	2017. Those were unforeseen. So, they were
22	from a point of view of engineering control	22	in the—I forget the total number, but they
23	over the projects, you know, if there's a	23	were over five million dollars, certainly.
	schedule slippage, it affects those things.	23	In 2016 I'm thinking it was six or seven,
1 //1			
24 25	MR. O'BRIEN:	25	but—so, they have substantial impact for the

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1	supplemental applications. So, you really	1	of when do we get to the point where we stop
2	have to look at the whole, and I strongly	2	spending money on aging assets and replace
3	would suggest that Mr. Gardiner could	3	those assets? Those would be another one.
4			When we—and you know, on cost efficiency,
5	variances through.	5	some of the things that come into play there
6	MR. O'BRIEN:	6	sometimes are when we, you know,
7	Q. I want to talk to you just about your—about	7	interconnect a rural community, which we
8	your capital program asset management. I	8	haven't done that for a while, but we have
9	wonder if we can bring up page 3.5 of the	9	in the past. If there's an overall
10	evidence? If you go back just to previous	10	efficiency gain by spending capital, we
11	page, there's a list. This is under the	11	would do it. You know, the—some examples
12	heading of "Asset Management Capital	12	would be, you know, interconnecting rural
13	Investment." So, I just want to look—	13	communities. The other one would be the net
14	there's a mention of some Hydro priorities	14	metering would be where we see some
15	there and I want to you about those. So,	15	efficiency gains over time, and they don't
16	the next page if we could, line 9 there,	16	
1	1 0	17	happen instantly. Some of the conservation
17	"Hydro's strategic spending priorities for	ı	and demand management things would be also
18	its capital program are," and there's a list	18	along there. If you're doing retrofits of
19	here of those priorities, and the last one	19	the diesel plant, we look how we go and do
20	at the bottom there is, "Achieve cost-	20	that better. The—those are the things that
21	efficiencies." I just wonder whether you	21 22	drive it and from that perspective, but we
22	<u> </u>		may find in our productivity review that we
23	priorities and how Hydro looks to achieve	23	may find things thatpeople up and say,
24	cost-efficiencies with those priorities?	24	"Did you look at this?"
25	MR. HAYNES:	25	MR. O'BRIEN:
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1	A. You're just talking about specifically the	1	Q. Yes.
2	A. You're just talking about specifically the last bullet?	1 2	Q. Yes. MR. HAYNES:
1	A. You're just talking about specifically the	1 2 3	Q. Yes.
2	A. You're just talking about specifically the last bullet?  MR. O'BRIEN:  Q. Well, I'm wondering, is that something that		Q. Yes.  MR. HAYNES:  A. To actually find it. It may be a capital; it may not be a capital.
2 3	A. You're just talking about specifically the last bullet?  MR. O'BRIEN:	3	Q. Yes. MR. HAYNES: A. To actually find it. It may be a capital;
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2 3 4 5	A. You're just talking about specifically the last bullet?  MR. O'BRIEN:  Q. Well, I'm wondering, is that something that gets—is implemented throughout or is that	3 4 5	Q. Yes.  MR. HAYNES:  A. To actually find it. It may be a capital; it may not be a capital.  MR. O'BRIEN:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. You're just talking about specifically the last bullet?  MR. O'BRIEN:  Q. Well, I'm wondering, is that something that gets—is implemented throughout or is that final priority or how does that work?  MR. HAYNES:  A. No, no, I think it's implemented throughout.  MR. O'BRIEN:  Q. Yes.  MR. HAYNES:  Q. Basically, you know –  MR. O'BRIEN:  Q. And that's what I assumed.  MR. HAYNES:  A. The practice is that basically obviously safety is first and foremost and always will be.  MR. O'BRIEN:  Q. Right.  MR. HAYNES:  A. When you come down to—we obviously look at	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Yes.  MR. HAYNES:  A. To actually find it. It may be a capital; it may not be a capital.  MR. O'BRIEN: Q. Okay, yes.  MR. HAYNES: A. You know, we also have programs with our customers whereby we will ask to go in their facilities and look for them, to see if they have energy saving efficiencies within their particular operation to save them money.  MR. O'BRIEN: Q. Yes, okay. And I guess that's what I'm wondering about, any specific cost efficiencies that you've been able to achieve with your capital program over the last few years?  MR. HAYNES: A. Unfortunately, I don't think of any one off the top of my head, but I—but you know, Mr. Gardiner can actually go—probably review any

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1	asset management, ensuring that we actually	1	stability and reliability of the IIS,
2	are replacing or upgrading or changing	2	particularly during faulting events
3	assets that we can. If we are putting in,	3	(phonetic)." And I wonder whether you can
4	you know, new motors or things like that, we	4	comment on how that's going to assist with
5	would like for efficient, you know, more	5	the reliability on faulting events, just
6	efficient things. You know, the variable	6	from an eye level?
7	speed drives at Holyrood were done on that	7	MR. HAYNES:
8	basis a number of years ago, from that	8	A. Okay. So, TL 267 basically is third-circuit
9	perspective. And you know, the diesel	9	from Bay d'Espoir. So, when Bay d'Espoir
10	plants, we look for more efficient engines	10	was built, there were two 30 kV lines
11	toyou know, as long as they're economical.	11	primarily coming to the East Coast, and
12		12	
1	So, those things would be normal business-		since then, we've added, you know, Granite
13	as-usual sort of thing, to actually look at	13	Canal and Upper Salmon, that particular
14	how we can do it cheaper, how we can save	14	stream. The change in the system overall
15	more money.	15	with respect to the papermill in
16	MR. O'BRIEN:	16	Stephenville disappearing and the Abitibi
17	Q. Okay. I wonder if we can bring up the 2017	17	changing and so on, has basically ended up
18	and 2018 Winter Readiness Planning Report.	18	with a lot more power coming to the East
19	That's one of the documents that I'd ask	19	Coast. So, putting in the third circuit
20	that you provide.	20	from Bay d'Espoir actually, you know, we
21	GREENE Q.C.:	21	have more flexibility for maintenance. Over
22	Q. That will be Information Item Number 3.	22	the peak system, the winter peak, we can get
23	MR. O'BRIEN:	23	approximately 60 to 70 megawatts, in that
24	Q. Okay, thank you. Sorry for the volume of	24	range, over and still maintain our, you
25	material here, but I figured the full report	25	know, transmission accuracy and from the
	Page 202		Page 204
1	might be necessary, but I'm not going to	1	point of view, of you know, any minus one
2	take you through the whole thing, Mr.	2	criteria. That also actually goes back to
3	Haynes.	3	your previous comment on that does decrease
4	MR. HAYNES:	4	our actual system losses as well. I don't
5	A. Thank you.	5	have a quantum of the number, but it does
6	MR. O'BRIEN:	6	decrease that if you have three circuits.
7	Q. If we could mark that Information 3.	7	So, when you're operating the system with
8	EXHIBIT ENTERED UPON HEARING AND MARKED AS INFORMATION	8	two lines from Bay d'Espoir and you have a
9	ITEM NO. 3	9	heavy load coming in from Bay d'Espoir, we
10	MR. O'BRIEN:	10	would look at the system prior to that and
11	Q. If I could to turn to page 25 of that	11	we say we would need to have, for instance,
12	document and this is the—there's an	12	three generators operating at Holyrood in
13	indication about the—or a line there about	13	case we actually get a lightning strike or,
1		13	you know, a transmission line trips for any
14	the transmission line TL 267, and that came		, ,
15	in service in December of 2017. Is that	15	reason. With the fact that we have a third
16	right?	16	circuit, we can probably take a machine down
17	MR. HAYNES:	17	in Holyrood earlier, and that is a
18	A. December the 6th.	18	significant fuel savings and—as I said, we
19	MR. O'BRIEN:	19	do operate the machines at a minimum of 70
20	Q. December the 6th, okay. And I wonder if you	20	megawatts. So, if we're only running in
	could comment on how that—if we start at	21	case of, from a system security point of
21		ו ייי	MANY WA can take that machine down carlier
22	line 21 here, it says, "The TL 267 will	22	view, we can take that machine down earlier.
22 23	increase Hydro's capability to deliver power	23	So, that aids that. And the other thing
22 23 24	increase Hydro's capability to deliver power to the major load centre on the Avalon	23 24	So, that aids that. And the other thing with the third circuit is that you do have a
22 23	increase Hydro's capability to deliver power	23	So, that aids that. And the other thing

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1		sustain more higher—you know, more faults	1	unless there's a contingency that we have a		
2		and survive without causing so much customer	2	line out of service. Then we will look at		
3			3	the Avalon load. Do we need to run gas		
4	4 MR. O'BRIEN:		4	turbines? We don't—I mean, we don't need to		
5	Q.	So, in terms of –	5 run gas turbines or Holyrood for the overall			
6	MR. HAYNE	ES:	6	system load. We have to run it because		
7	A.	I don't know if that answers the question	7	there's an Avalon Peninsula issue.		
8		specifically.	8	MR. O'BRIEN:		
9	MR. O'BRIE	N:	9	Q. Right.		
10	Q.	I think so, yes. And I'm running into I	10	MR. HAYNES:		
11		think the next couple of lines thatand we	11	A. Because we can't get the power from Bay		
12		sort of touched on this. "The TL 267 was	12	d'Espoir. That has been largely relieved by		
13		energized December 6th and was fully	13	TL 267.		
14		available in the island interconnected	14	MR. O'BRIEN:		
15		system. The energization of this line	15	Q. And I think that's where -		
16		removes the Avalon restriction." What does	16	MR. HAYNES:		
17		that mean in terms of removing the	17	A. You know, which is a big asset to the		
18		restriction? Is that what you're talking	18	reliability to the system overall.		
19		about -	19	MR. O'BRIEN:		
20	MR. HAYNE		20	Q. So, in terms of going forward and the		
21	Α.	Well, when I mentioned that basically up	21	reliance on standby generation sort of at		
22	11.	until—prior to, you know, the events of 2013	22	Holyrood or on the Avalon, I should say,		
23		- 2014, the folks in Transmission Planning	23	that will help relieve some that, this -		
24		and System Operations looked at the entire	24	MR. HAYNES:		
25		system from a point of view of how much	25	A. That will enable us toyou know, enable us		
F-		Page 206		Page 208		
1		megawatts is available. They didn't	1	along with, you know, the Soldiers Pond		
2		necessarily pay a lot of attention to	2	injection as well to shut down.		
3		whether those megawatts were in Corner Brook	3	MR. O'BRIEN:		
4		or St. John's or whatever, and specifically	4	Q. Right.		
5		the growth on the Avalon Peninsula has been,	5	MR. HAYNES:		
6		you know, phenomenal over time. You know	6	A. You know, the critical thing is to allow us		
7		there's a lot of people moving here, a lot	7	to take a unit offline, you know, earlier		
8		of housing construction, so there's been a	8	than we normally would. You know, years		
9		significant increase in the load. So, the—I	9	ago, we used to runregularly in the summer		
10		lost my train of thought, I'm sorry. So,	10	we would have a total plant outage at		
11		the fact that we have a lot more load in the	11	Holyrood. Right now, they're a little bit		
12		Avalon, the third circuit gives us a lot	12	harder to get because we need to run a		
13		more flexibility in the sense that we can	13	certain amount of megawatts on the Avalon		
14		deliver power without having those at	14	Peninsula. TL 267 relieves that a bit, and		
15		Holyrood. So, up—following, you know, the	15	you know, and once the LIL is in service and		
16		events there, the folks in Operations	16	reliably operating, then we will make a		
17		started to look at the Avalon Peninsula.	17	decision then, when can we actually shut		
18		It's almost its own planning area. So, you	18	down a little bit sooner? We still need it		
19		had twoyou know, you had the island as a	19	there for planning purposes. We still need		
20		whole, you had the Avalon Peninsula with a	20	it there for backup, and we'll still run as		
21		particularly high-load area. So, the fact	21	required over peak, but it allows us to		
22		that the third circuit—now, we can actually	22	offload a little sooner.		
23		back off on that. So, you know, the daily	23	MR. O'BRIEN:		
24		reviews that are done now doesn't look at	24	Q. When you talk about being able to shut down		
25		the Avalon as a separate operating region	25	a unit, does that include standby units as		
L <sup>2</sup> J		the revalou as a separate operating region	43	a unit, does that include standby units as		

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1	well? Less reliance on standby units?	1	degree-
2	MR. HAYNES:	2	MR. O'BRIEN:
3	A. There could be less reliance on—but ZI mean,	3	Q. Yes, that's sort of my question.
4	that's a decision that's made by Jennifer or	4	MR. HAYNES:
5	·	5	
1 .	by Ms. Williams' folks on a regular basis,		A the answer is yes. But we have another
6	about what we need to secure and provide a	6	factor over there that we had a significant
7	system reserve that we have there of the	7	round of derating on Holyrood over the
8	240-megawatt reserve, whether it's spinning	8	winter because of furnace pressure and air
9	or –	9	heater fowling, which we're addressing to
10	MR. O'BRIEN:	10	the best of our ability, and as I said, Ms.
11	Q. The restriction is removed on the Avalon	11	Williams can speak to that. We are looking
12	restriction.	12	at that pretty hard. We also had the outage
13	MR. HAYNES:	13	of one machine for – again, Ms. Williams can
14	A. It does reduce –	14	be specific, but I'm going to say
15	MR. O'BRIEN:	15	approximately a month because we had some
16	Q. Does that assist that?	16	issues with a boiler shutdown. So, there
17	MR. HAYNES:	17	were a couple of outages at Holyrood. So,
18	A. It does reduce the overall requirement, yes.	18	that would put us back to the gas turbine.
19	MR. O'BRIEN:	19	But on a -
20	Q. So, and I'm going to get into this in a	20	MR. O'BRIEN:
21	little bit, just in terms of the operation	21	Q. It's another factor involved.
22	of the gas turbines and the cost associated	22	MR. HAYNES:
23	with the operation of the gas turbines over	23	A. Another factor, but strictly on a – you
24	time. We've got an energy supply deferral	24	know, will this line reduce the gas turbine
25	account. Should we see a reduction in the	25	requirements? Yes. However, there are
23		23	*
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	requirement – required usage of those SCT	1	complicating factors at Holyrood reliability
2	and those gas turbines for reserve purposes	2	which factored into the fact that we still
3	into the future because of that T26 – TL26	3	need to run a bit more than we would have
4	(unintelligible).	4	liked.
5	MR. HAYNES:	5	MR. O'BRIEN:
6	A. TL26's then will contribute to it. The	6	Q. All things being equal, with the TL267 in –
7	Labrador Island Link will contribute to it.	7	aligned and energizing, it should have some
8	There was one issue this year though I think	8	effect on reducing the requirement and
9	we need to acknowledge in the fact that we	9	reliance on standby generation, presuming
10	have – we are having some issues at Holyrood	10	all things equal?
11	with respect to deratings.	11	MR. HAYNES:
12	MR. O'BRIEN:	12	A. All things equal, yes, and if we get – you
13	Q. Yeah.	13	know, if we get a good remedial work done
14	MR. HAYNES:	14	this year on Holyrood, it should certainly
15	A. So, I would – if we had not had derating	15	affect and – along with, of course, the
16	issues at Holyrood, which were there and	16	Labrador Island Link.
17	which we're trying to address, I think there	17	MR. O'BRIEN:
18	which we're trying to address, I think there would have been less dependence on the gas	18	Q. And you talked about just in terms of
19	turbine operating. But while those	19	derating there, I wonder if we could turn to
		17	derating there, I wonder it we could turn to
		20	nage 21 of this report? There's a section
20	deratings are there, we still have to meet	20	page 21 of this report? There's a section
20 21	deratings are there, we still have to meet the peak requirements of the load and we	21	there on deratings.
20 21 22	deratings are there, we still have to meet the peak requirements of the load and we also have to carry the system reserve. So,	21 22	there on deratings. MR. HAYNES:
20 21 22 23	deratings are there, we still have to meet the peak requirements of the load and we also have to carry the system reserve. So, if you're looking at it from a singular	21 22 23	there on deratings.  MR. HAYNES: A. Yeah.
20 21 22	deratings are there, we still have to meet the peak requirements of the load and we also have to carry the system reserve. So,	21 22	there on deratings. MR. HAYNES:

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1	1	there, starting on line four. Holyrood One	1		been unsuccessful. We are looking at maybe
2	,	was derated to 150 over the winter. Is that	2		replacing some baskets this year to actually
3	1	right?	3		recover that back. But basically, furnace
4	MR. HAYNES		4		pressure, which is an economizer and the air
5		Yes.	5		heater fouling are contributing mostly to
6	MR. O'BRIEN		6		our derating at Holyrood, and we are – we
7		Is Holyrood One generally derated – can you	7		have a team engaged from Engineering, along
8		give me any sort of comment on whether or	8		with the operations folks in Holyrood, to
9		not it generally runs at its 170 rating or	9		look at ways and means to actually remediate
10		is it usually derated?	10		that so we can get it back to its normal
11	MR. HAYNES		11		<u> </u>
1			12	MR. O'BRIEN	rating.
12		When I came back from retirement, there were			
13		a lot of issues with respect to some piping	13	Q.	Is that unit regularly graded at its name
14		issues and some boiler issues that we had.	14	10 H.10 E	plate?
15		We replaced a lot of the reheater section of	15	MR. HAYNE	
16		the boiler. As I mentioned before, we're	16	A.	The normal rating is 170. I don't recall
17		trying to – we're trying not to spend a lot	17		offhand what it came in this winter at, but
18		of major money on actually, you know, doing	18		Ms. Williams could actually provide that
19		a lot of life extension on the boiler	19		detail.
20		obviously. So, when that was done, you	20	MR. O'BRIEN	
21	]	know, the plant folks would obviously like	21	Q.	And what about -
22	1	to run at 150-160 megawatts and what we had	22	MR. HAYNE	S:
23	:	said was that from an economic point of	23	A.	And she's actually been engaged actually in
24	,	view, we went up to 150-155, but if we need	24		getting these units back to the normal
25	j	it, we'll run at 170, but we'll back off a	25		rating.
		Page 214			Page 216
1		bit just to look for life extension, if you	1	MR. O'BRIEN	
1					
1 2		will, so we're not pushing it to its limits.			
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$		will, so we're not pushing it to its limits.  It is rated to go there, but we don't want	2	Q.	How about No. 2, is that -
3		It is rated to go there, but we don't want	2 3	Q. MR. HAYNE	How about No. 2, is that -
3 4		It is rated to go there, but we don't want to risk another failure. So, you know,	2 3 4	Q.	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a
3 4 5		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating	2 3 4 5	Q. MR. HAYNE	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I
3 4		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do	2 3 4	Q. MR. HAYNE	How about No. 2, is that - S: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were
3 4 5 6 7		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with	2 3 4 5 6 7	Q. MR. HAYNE	How about No. 2, is that - S: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra
3 4 5 6 7 8		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with furnace pressure and air heaters which	2 3 4 5 6 7 8	Q. MR. HAYNE A.	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra 20 megawatts more machine.
3 4 5 6 7 8 9		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with furnace pressure and air heaters which basically is a fouling in the economizer	2 3 4 5 6 7 8 9	Q. MR. HAYNE A. MR. O'BRIEI	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra 20 megawatts more machine. N:
3 4 5 6 7 8 9 10		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with furnace pressure and air heaters which basically is a fouling in the economizer section of the boiler, which is a very, very	2 3 4 5 6 7 8 9 10	Q. MR. HAYNE A. MR. O'BRIEI Q.	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra 20 megawatts more machine. N: No. 3 is 150?
3 4 5 6 7 8 9 10 11		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with furnace pressure and air heaters which basically is a fouling in the economizer section of the boiler, which is a very, very confined space and hard to clean. We've	2 3 4 5 6 7 8 9 10	Q. MR. HAYNE A.  MR. O'BRIEN Q. MR. HAYNE	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra 20 megawatts more machine. N: No. 3 is 150?
3 4 5 6 7 8 9 10 11 12		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with furnace pressure and air heaters which basically is a fouling in the economizer section of the boiler, which is a very, very confined space and hard to clean. We've tried two or three different approaches.	2 3 4 5 6 7 8 9 10 11 12	Q. MR. HAYNE A. MR. O'BRIEI Q.	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra 20 megawatts more machine. N: No. 3 is 150? SS: That's never been changed. That came out at
3 4 5 6 7 8 9 10 11 12 13		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with furnace pressure and air heaters which basically is a fouling in the economizer section of the boiler, which is a very, very confined space and hard to clean. We've tried two or three different approaches. The air heaters which are part of the heat	2 3 4 5 6 7 8 9 10 11 12 13	Q. MR. HAYNE A.  MR. O'BRIEN Q. MR. HAYNE A.	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra 20 megawatts more machine. N: No. 3 is 150? SS: That's never been changed. That came out at 150; still is.
3 4 5 6 7 8 9 10 11 12 13 14		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with furnace pressure and air heaters which basically is a fouling in the economizer section of the boiler, which is a very, very confined space and hard to clean. We've tried two or three different approaches. The air heaters which are part of the heat exchangers – the air exchange providing	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. MR. HAYNE A.  MR. O'BRIEN Q. MR. HAYNE A.  MR. O'BRIEN	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra 20 megawatts more machine. N: No. 3 is 150? SS: That's never been changed. That came out at 150; still is. N:
3 4 5 6 7 8 9 10 11 12 13 14 15		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with furnace pressure and air heaters which basically is a fouling in the economizer section of the boiler, which is a very, very confined space and hard to clean. We've tried two or three different approaches. The air heaters which are part of the heat exchangers – the air exchange providing oxygen, so we can actually sustain a flame.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. MR. HAYNE A.  MR. O'BRIEN Q. MR. HAYNE A.  MR. O'BRIEN Q.	How about No. 2, is that - SS: No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra 20 megawatts more machine. N: No. 3 is 150? SS: That's never been changed. That came out at 150; still is. N: And is that generally run at 150?
3 4 5 6 7 8 9 10 11 12 13 14 15 16		It is rated to go there, but we don't want to risk another failure. So, you know, there are some derating – the derating issues we have right now have nothing to do with the reheater. They have to do with furnace pressure and air heaters which basically is a fouling in the economizer section of the boiler, which is a very, very confined space and hard to clean. We've tried two or three different approaches. The air heaters which are part of the heat exchangers – the air exchange providing oxygen, so we can actually sustain a flame. You know, the air heater is an efficiency	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. MR. HAYNE A.  MR. O'BRIEN Q. MR. HAYNE A.  MR. O'BRIEN Q. MR. HAYNE	How about No. 2, is that - SS:  No. 1 and 2 are similar. No. 3 is a different type of boiler. And as I mentioned before, which No. 1 and 2 were upgraded a number of years ago to an extra 20 megawatts more machine. N: No. 3 is 150? SS: That's never been changed. That came out at 150; still is. N: And is that generally run at 150? SS:
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1	this? Have you looked at that?" but	1	Q. Can you tell us the status of – I understand
2	basically, I mean, I haven't worked in that	2	from this section that there was a – there's
3	plant in 35 years, but I still remember it a	3	an investigation into the root cause of that
4	lot, but there are a lot of things out there	4	leak?
5	5 that Holyrood is a complicated machine		MR. HAYNES:
6	and deratings in the thermal world are not	6	A. Yes.
7	uncommon. We don't generally get many	7	MR. O'BRIEN:
8	deratings on a hydro generating unit, which	8	Q. Can you just tell us the status of that
9	is fortunate, but particularly the steam	9	investigation?
10	machines are prone to that and every winter,	10	MR. HAYNES:
11	we come in – we've always come into the	11	A. Just the background, we did have a failure
12	winter with a high rating and over the	12	which was unforeseen and unanticipated in
13	season, you know, we will come down because	13	2016, a couple actually in the year, and
14	of fouling and stuff building up in the	14	then actually – and the penstock basically
15	boiler which you go in in the summer and you	15	is laid on the ground. There's a limited
16	clean it out. We've changed our field spec	16	amount of backfill around the sides to
17	to go with low sulphur fuel, which was –	17	cradle it over the top. The design, I
18	which actually helped some of the fouling	18	really want to say that the design of
19	issues, but may have caused other issues. I	19	penstock No. 1 and penstock No. 2 are
20	don't know that, but that detail is being	20	different. Penstock No. 2 has more support
21	looked at in detail by Engineering. The	21	and so on than penstock No. 1.
22	goal is to retain and recover the 170	22	My understanding is that we did not
23	megawatt rating. That's the goal.	23	find in the records of when that change was
24	MR. O'BRIEN:	24	made or why it was made. We can only
25	Q. That's the goal.	25	
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1	MR. HAYNES:	1	speculate that there was some issues that
2	A. The goal is to come back to its full rating	2	arrived whereby they made a conscious
3	and – but if we come to a fact where it's	3	decision to increase the structural support,
4	going to cost – you know, I'll pick a number	4	I'm sure that's not the right term, but the
5	out of the air – ten million dollars to	5	of No. 2. No. 3 is different again from
6	actually replace the economizer section or	6	those. So, the inspection – and first when
7	more, that's a decision we would look at.	7	we had the leak, we did have consultants
8	Well, with the Labrador Island Link, can we	8	involved to go back and do testing. We were
9	delay that? Because it's a ten million	9	assured that it was a localized issue. We
10	dollar investment that's only going to take	10	all had our own speculations, whether it was
11	us to 2021. So, we want to be prudent with	11	just a bad welding rod or a bad welder back
12	the way we do that, but we also don't want	12	in the '60s when it was built or whatever.
13	to limit, you know, from the point of view	13	Of course, it manifests itself in time that
14	of our overall capacity to serve our	14	we do have an issue with that particular
15	customers.	15	penstock and it's – the welds have failed.
16	MR. O'BRIEN:	16	We went back in 2016 and did a substantial
17	Q. Thank you for that, Mr. Haynes. The only	17	amount of rewilding. We engaged, you know,
18	other question I have on this document, page	18	consultants to come back and give us their
19	26. There was a reference to some work done	19	advice on what needs to be done. In 2017,
20	on a leak at a base Penstock 1, in 2017 that	20	we had another one, same place, and we were
21	there was some work done on units 1 and 2,	21	shocked and we went back and did further
22	was it?	22	work and that report has been done,
23	MR. HAYNES:	23	undertaken through Engineering and Jennifer
24	A. Yes.	24	particularly, if not Terry, could actually
25	MR. O'BRIEN:	25	speak to the result of that report. I am
1 40	O Ditto:		openia to the result of that report. I thin

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1	aware that the draft is in. I'm not sure	1	But obviously one that we're anxious about		
2	whether it's final but we are – you know, we	2	in that sense of what – and also, what are		
3	are concerned of what we need on a go-	3	the implications for penstock No. 2 and if		
4	forward basis.	4	any on penstock No. 3.		
5	My understanding is that the steel	5	MR. O'BRIEN:		
6	itself was not eroded. It's a weld issue,	6	Q. One of the other issues I think – I guess		
7	maybe have to do with the way it was	7	one of the other questions I had in terms of		
8	installed and the way it was actually	8	some of the capital requirements, your		
9	backfilled and cradled from the point of	9	recent capital budget, there was an		
10	view of long term. So, but we cannot find	10	indication that some work had to be done at		
11	the decision process back in the '60s why	11	Stephenville and Hardwoods for, I think it		
12	they made that change to change the	12	was a million and a half over two years for		
13	stiffening, is the word I was looking for,	13	refurbishment for those GTs or sorry, those		
14	on penstock No. 2 versus penstock No. 1.	14	gas turbines. I understand the Board had		
15	MR. O'BRIEN:	15	directed Hydro to file with its next capital		
16	Q. You say that there's a draft done in terms	16	budget a near term and long-term plan for		
17	of a report?	17	those units. Is that progressing?		
18	MR. HAYNES:	18	MR. HAYNES:		
19	A. Yeah, that is under review right now is my	19	A. That's progressing, but Ms. Williams could		
20	understanding, but Ms. Williams could	20	actually speak to that, yes. And that also		
21	actually give you the specific status of	21	integrated into our long term – you know, we		
22	that.	22	are in progress of doing a report, you know,		
23	MR. O'BRIEN:	23	longer term on the generation requirements		
24	Q. Is that kind of the root cause -	24	and so on and obviously the gas turbines are		
25	MR. HAYNES:	25	a factor in that, you know. So, they		
23		23			
١,	Page 222	1	Page 224		
	A. That would be, but we're also looking for	1	dovetail together a bit, but on the gas		
2	how do we get life extension; what do we do.	2	turbines, I understand that report is		
3	What are our options to provide that? I	3	specifically being looked at. There's also		
4	mean, you know -	4	a part of a longer picture of, you know, do		
5	MR. O'BRIEN:	5	we need to replace, when do we need to		
6	Q. That's where I was going to go.	6	replace, where do we need to replace and so		
7	MR. HAYNES:	7	on, from the point of view of long term		
8	A. Yeah. I mean, quite frankly, you know, a	8	accuracy and security.		
9	steel penstock, I would not have anticipated	9	MR. O'BRIEN:		
10	we would have issues at 50 years, but there	10	Q. Even post Muskrat Falls?		
11	are specific issues with the welding and the	11	MR. HAYNES:		
12	way it was supported that may have	12	A. Even post Mus – that report is due in late		
13	contributed to that erosion of the welds or	13	fall of this year and that is actually a		
14	failure of the welds, I should say.	14	specific – you know, a high level objective		
15	MR. O'BRIEN:	15	to Hydro, to have that report complete,		
16	Q. Would you anticipate any significant cost	16	which will be fairly in-depth and		
17	associated with that?	17	comprehensive.		
18	MR. HAYNES:	18	MR. O'BRIEN:		
19	A. Well, that's to be determined based on the	19	Q. Yes, I understood that in one of the – I		
20	outcome and recommendations of the study.	20	understood that Liberty had recommended that		
21	You know, it may be that here's a long-term	21	Hydro look at the long-term planning, in		
22	50-year fix. Maybe it's a ten-year fix, I	22	terms of putting in place or obtaining the		
23	don't know. But that – and I have not read	23	300 megawatt additional supply, even from -		
24	the report. I've not seen that report and	24	MR. HAYNES:		
25	as I said, it's still draft to my knowledge.	25	A. We haven't spent a lot of time with that yet		

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1	from the point of view, we know that the –	1	A. No. No, that's being looked at. I mean,
2	you know, the Maritime Link, I'm not sure it	2	the last time the gas turbines were looked
3	it's up to available 300 megawatts right	3	at in detail I think was 2007 and the
4	now, but it's also an issue as to find that	4	recommendation at the time was that we could
5	available from an emergency response point	5	still get a number of years out of those
6	of view. There are some contingent things	6	particular machines, you know, and I think
7	that we can do now, but they're not longer	7	we have a new generator on one and the
8	term. But that, you know, 300 megawatts	8	engines are a concern because the engines
9	would only be required, I would suggest, if	9	are fairly dated and not readily available.
10	you had a long-term outage of LIL, for	10	The power turbine, there is no spare for
11	instance.	11	that. They're unique from Curtiss-Wright
12	MR. O'BRIEN:	12	who built the machines in the first place
13		13	who are long gone. So, you know, it is a
14	Q. (unintelligible). MR. HAYNES:	14	risk, but it's being looked at for overall.
1		15	,
15	A. Or things like that, but those are things we		But in the meantime, if you can get, you
16	have to look at from the point of view of	16	know, value from those machines with small
17	what's required and, you know -	17	cap investments or it cost a lot to replace
18	MR. O'BRIEN:	18	them as well.
19	Q. Have you started looking at that at all in	19	MR. O'BRIEN:
20	terms of (unintelligible).	20	Q. You haven't looked – and you may have
21	MR. HAYNES:	21	answered this – you haven't looked in terms
22	A. I don't think we've looked at that in a hard	22	of establishing formal agreements with Nova
23	light yet. That is a post Muskrat Falls	23	Scotia Power, New Brunswick Power about
24	thing obviously at this point in time, but	24	backup supply?
25	at least the connection is there to make it	25	MR. HAYNES:
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1	available if we can find it or source it.	1	A. Not at this point in time.
2	And you know, but playing off against that,	2	MR. O'BRIEN:
3	there may be options if we do have to	3	Q. I wonder if we could move to page 3.6 of
4	replace – at the end of the day, there's a	4	your evidence. And I want to talk to you
5	decision made to replace particularly the	5	about some of the operational improvements
6	older gas turbines at Hardwoods and	6	that Hydro had implemented. So, the
7	Stephenville, the question would be what	7	evidence indicates in recent years that
8	size.	8	Hydro has implemented a number of those
9	MR. O'BRIEN:	9	operational improvements and there's a
10	Q. Sure.	10	number of bullets there. I just want to
11	MR. HAYNES:	11	talk through some of those with you, if we
12	A. What's the most optimum location	12	can. The first bullet there is daily system
13	(unintelligible). So, there may be changes	13	status meetings which address power supply
14	that all – to my mind, that all dovetails	14	capability and reserves. So, are you
15	together a bit from that perspective.	15	involved in those meetings yourself?
16	MR. O'BRIEN:	16	MR. HAYNES:
17	Q. And I guess that's important in terms of how	1	A. I have not attended those meetings. When I
18	much capital is needed to refurbish them -	18	came, I kind of made a conscious decision
19	MR. HAYNES:	19	that that was basically the responsibility
20	A. Yeah.	20	of the respective VPs and particularly the
21	MR. O'BRIEN:	21	Transmission side and at that time it was
22	Q and sort of when the timing of replacement	22	Terry Gardiner and Ms. Williams, and they
23	would be. Have you looked at – you haven'	1	are – they have been actively engaged in
23	got a full approach to that?	24	those meetings. They don't go to every
	MR. HAYNES:	25	meeting, but basically, it's an evolution,
25			

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1	if you will, of what we expect from the	1		management, there were full management		
2	folks. So, starting off, there's a lot of	2		involvement. Are they less involved now?		
3	management and VP oversight to actually get	3	MR. HAYNE			
4	that stuff on track that we expect people to	4	A.	They're slightly less involved because we		
5	be looking at that. I do read the emails.	5		see a traction there and that people are		
6	I don't read every one of them, but I read	6		actually taking that and they're actually		
7	the emails frequently. There's an	7		running with it. I mean, we don't need to		
8	assessment done early in the morning and	8		have 30 or 40 people in a room every day,		
9	that provides the basis for the meeting.	9		but I think starting off, it was a kind of		
10	What are the risks today? Do we have enough			a, you know, a course correction, if you		
11	generation? Are we anticipating issues? And	11		will, on the attention to detail, on trying		
12	so on. So, it's all done in a very	12		to mitigate any potential outage or risk		
13	proactive basis, basically the intent being	13		that we saw. So, that has been now a lot		
14	that we don't have any interruptions.	14		more engrained and people are actually doing		
15	MR. O'BRIEN:	15		that on a daily basis and, you know, the		
16	Q. Does that – that deals with load, capacity	16		folks that are there are extremely focused		
17	in terms -	17		on that, particularly the general manager of		
18	MR. HAYNES:	18		hydro generation and thermal. They are all		
19	A. Load, load forecast, if we have, you know,	19		over it, along with the general manager in		
20	an emergency, if we have a pending issue to	20		the transmission and distribution world.		
21	take down a machine because of something	21		Transmission primarily because it's a bigger		
22	that – you know, sometimes a machine has to	22		system of concern.		
23	be taken down immediately, in which case its	23	MR. O'BRIE			
24	done, because we don't want to risk the	24	Q.	And who's normally involved now then in the		
25	asset obviously. We don't want to cause	25	٧.	meetings? Is it -		
	abbet to violatify. We don't want to eadbe	1 22				
	Page 230	t				
1	Page 230 more damage if you will Sometimes we have	1	MR HAYNF	Page 232		
1 2	more damage, if you will. Sometimes we have		MR. HAYNE	Page 232 ES:		
2	more damage, if you will. Sometimes we have to take it down in a number of hours because	2	MR. HAYNE A.	Page 232 ES: Normally involved now would be the general		
2 3	more damage, if you will. Sometimes we have to take it down in a number of hours because something is unfolding and we need to get it	2 3	A.	Page 232 ES: Normally involved now would be the general managers, certainly the NLSO primarily.		
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		Page 233			Page 235	
1		those things are looked at every day as to	1		instruction up. It's under NP-NLH-38,	
2		what we could reasonably expect to happen	2		Attachment 1. I just want to make sure	
3		from a load point of view or a storm point	3			
4		of view or whatever and you know,	4		if you go back to 75, I think there's a	
5		preventative actions are taken so far as we	5		heading there. We manage the Avalon	
6		can to mitigate any negative outcomes.	6		capability and reserves. This is the new	
7	MR. O'BRIE		7		operating instruction since –	
8	Q.	So, they address – the meetings would	8	MR. HAYNE		
9		address generation, dispatch plans and that	9	A.	Yeah, I'm not familiar with the details of	
10		sort of thing throughout the year –	10	11.	the instruction, but if you have high level	
11		throughout the day?	11		question, I mean, I would try to -	
12	MR. HAYNI		12	MR. O'BRIE		
13	A.	Yeah, and major line outages or any	13	Q.	Well, maybe you can, and we'll – if we	
14	11.	constraints that that brings.	14	Q.	scroll down, if it's something you feel that	
15	MR. O'BRIE	Č	15		I should speak to someone else about, that's	
16		And what effect have the meetings themselves	16		fine. Would you have had any involvement	
17	Q.	had on reliability in the short term?	17		with preparing this operating instruction?	
18	MR. HAYNI		18	MR. HAYNE		
19			19	A.	I think that instruction was actually	
1	A.	Well, I think they've – you know, part of it		A.	created before I arrived.	
20		is actually, you know, kind of returning	20	MD O'DDIE		
21		people to the fact that it's not just a cost	21	MR. O'BRIE		
22		issue; it's a reliability issue and we have	22	Q.	Okay. That's fair.	
23		to be a lot more proactive from the point of	23	MR. HAYNI		
24		view of storm response or from the point of	24	A.	So, I wouldn't have been involved in it, but	
25		view – you know, at one point in time, and	25		I mean, what I said before was that the –	
		Page 234			Page 236	
1		you know, even when I was in Regulated	1		traditionally, the planning was to system	
2		Operations, we would have regular meetings	2		peak and there was no attention, not an	
3		with the hydro manager and the gas turbine –	3		appropriate amount of attention paid to	
4		or the – I'll pick on the Holyrood thermal	4		whether it was Avalon or Central or	
5		plant, but you know, the biggest generator.	5		whatever, but basically all this load shift	
6		We would have regular meetings, but they	6		on the Avalon Peninsula has changed the way	
7		would not be daily. So, if there was a risk	7		we had to operate. So, that reflects that	
8		arising or a potential risk from the point	8		Avalon, specific look at the Avalon	
9		of view of Holyrood, the Bay d'Espoir folks	9		Peninsula where most of the load and most of	
10		may not have known that. Right now, that	10		the customers are.	
11		happens on a lot more basis so that people	11	MR. O'BRIE	N:	
12		are thinking about "well, you know, what –	12	Q.	There's another one of these that looks	
13		we don't start today because we just need to	13	•	similar to that but that deals with the	
14		keep that for tomorrow because the peak is	14		whole system.	
15		past", whatever. So, I think that's an	15	MR. HAYNE		
16		ongoing thing. I think that people are –	16	A.	That's a broader perspective. Do we have	
17		overall, that has aided that response and	17		enough – you know, on a – from the point of	
18		our ability to cope with these challenges.	18		view of generation adequacy planning, if you	
19	MR. O'BRIE		19		had a well-built transmission system, you	
20	Q.	The next bullet there, we see a new	20		had lines all over the place, you'd only	
21	ζ.	operating instruction which provides a	21		look at the whole, but the Avalon,	
22		method of assessing Avalon capability and	22		particularly without 267, require a specific	
23		reserves. I wonder maybe – and I think	23		look because it's a high risk area, only two	
24		you've touched on that a little bit already.	24		lines, and we have an aging plant. So, it's	
25		Maybe we can just pull that operating	25		contributing to some of the issues. So, I	
L 23		mayor we can just pun mat operating	43		continuum to some of the issues. So, i	

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		Page 237			Page 239
1	think it wa	as an appropriate reaction to the	1		Bay D'Espoir if that's required.
2	events that	t occurred, and I think it's very	2	MR. O'BRIEN	<b>1</b> :
3	positive.		3	Q.	Under the heading here, procedure, paragraph
4	MR. O'BRIEN:		4		A, calculation of total Avalon capability
5	Q. Are you a	ble to tell me who would have sort	5		and Avalon reserve, available Avalon
6	of taken the	ne role of developing this?	6		reserve. If we move down past these numbers
7	MR. HAYNES:		7		here, it just mentions that the reserve is
8	A. I don't kn	ow offhand, but I would suggest	8		calculated for the current day and the
9	that would	I have had a lot of input by the	9		following six days. So, is that every
10	Transmiss	ion and Generation planning folks	10		morning that it's calculated from the day of
11	at the time	e, because basically, you know,	11		-
12	they woul	d have to do the studies to	12	MR. HAYNE	S:
13	validate h	ow many megawatts you can get over	13	A.	I think my understanding is they reset –
14	the systen	or how much, you know, local	14		they always look ahead.
15	supply sec	curity would be on the Avalon	15	MR. O'BRIEN	J:
16	versus the	rest of the island. That would	16	Q.	Every day it's reset for six days out?
17	be someth	ing that would come from planning	17	MR. HAYNE	·- ·
18		obviously with the input of the	18	A.	The email that comes out every day usually
19	system op	erator. The individual folks at	19		has a forward looking forecast and if
20	the genera	ting stations, their focus is on	20		there's any anticipation that we may have to
21	their asset	s. NLSO is operating the system	21		run a gas turbine, for instance, or look for
22	and the pl	anning folks are looking at how	22		alternative in day three or four, it's
23			23		usually indicated on the email.
24	perspectiv	e. So, I would suggest that it's	24	MR. O'BRIEN	<b>1</b> :
25	primarily	generation and transmission	25	Q.	So, it's all forecast obviously?
		Page 238			Page 240
1		vould be the biggest contributors	1	MR. HAYNI	ES:
2		re, at least the technical	2	A.	Yeah. And there is a system in the control
3	requireme	nts.	3		centre where we have this what they call
4	MR. O'BRIEN:		4		Nostradamus who looks at a bit of a – I
5	`	ot sure there's a reference to the	5		forget the IT term, but I'll say intelligent
6	NLSO in 1	nere.	6		system that actually looks at the forecast
7	MR. HAYNES:		7		and predicts it and most times when I look
8		d have been – the NLSO would have	8		at that there, it's a good – occasionally
9		CC. The NLSO would not have been	9		there's a bump, but by and large, it's a
10	•	t that particular time.	10		good correlation between its forecast and
11	MR. O'BRIEN:	0.11	11		the actual load. If we look at the load
12	•	of tells us that it would have	12		forecast, it integrates what happened
13		telligible).	13		previous times. It's artificial – I won't
14	MR. HAYNES:		14		say artificial intelligence, but it's
15		energy control centre and	15	MD OEDE	smarter than me.
16	•	these are instructions they	16	MR. O'BRIE	
17		perate on a day-to-day basis.	17	Q.	Does the energy control centre monitor the
18	MR. O'BRIEN:	gave that these instructions	18		forecast, like say the daily forecast? Does
19		say that these instructions	19		it monitor that throughout the day and any
20		eliability, system reliability on	20	MD HANNI	change -
21		n, more so than -	21 22	MR. HAYNI	
22	MR. HAYNES:	from a gangration naranastiva da	22	A.	There's a look. If there's a significant
23		from a generation perspective, do	23 24		change – I do know that there's been
24		we have enough generation	24 25		additional meetings called later in the day because there's been a significant change in
25	attailahla	and the lines to deliver it from			

Page 241 Page 243 the forecast and obviously, you know, our down Holyrood, are you talking about one of 1 1 2 forecast does change sporadically and 2 the three units or sometimes unforeseen. But there is a look 3 3 MR. HAYNES: 4 and if there's something that's going to 4 Α. I'm sorry, the gas turbine, we wouldn't 5 come up and cause grief or cause pressure in 5 hesitate shutting that down, you know, but 6 the next 24 hours, there have been meetings 6 not for an hour or two because there's a 7 that have been set aside to actually go back 7 cost obviously to restart. But from the 8 and reconsider the plans. 8 point of view of the Holyrood thermal MR. O'BRIEN: 9 9 machines, those are – when you shut those 10 Q. So, would it be fair to say that as part of 10 down, you're usually down for several days. their role, the control centre role is to We could go to hot standby, but even that is 11 11 12 monitor that forecast throughout the day and 12 eight hours to get back from hot standby. 13 if necessary changes are needed, to react to So, those are longer term decisions that if 13 14 those changes? 14 we see that the peak load is down for, you 15 MR. HAYNES: 15 know, -- I'll be extreme, but if we see that 16 A. To react with – if it's within their span of 16 the temperature forecast in January is, you 17 operation, if you will, which is pretty know, way higher than we anticipated, if we 17 broad, but if they need to muster the 18 18 see the opportunity to shut the machine down 19 troops, if you will, to go back and look at 19 for a week or two weeks, we will because other alternatives because things are – we'll save a bunch of money in fuel. If 20 20 21 other things have happened. You know, maybe 21 it's for a day, we won't shut the Holyrood 22 22 machine down for a day. We'll run that down we had a unit trip during the day which is 23 not coming back for the peak in the 23 at minimum load because it would - you know, afternoon. So, all those things have to be it takes a long time to restart it to go 24 24 25 an ongoing basis and I know that the VPs 25 again. Page 242 Page 244 MR. O'BRIEN: 1 responsible are engaged in that process, but 1 2 primarily general managers in the 2 So, if in your six-day forecast that changes 0. 3 transmission world and the thermal world and 3 and you see that (unintelligible). 4 the hydro world are – you know, that's a 4 MR. HAYNES: 5 5 fairly significant effort on their – not We would look at that there. Well, usually Α 6 effort on their part, but they are attune to 6 the decision to shut down Holyrood for a 7 that and we will change maintenance plans or 7 longer period of time are a lot more 8 outage – planned outages to accommodate thoughtful and we're looking at it a little 8 9 9 those changes. We have to react. bit longer than that, you know. When we go 10 MR. O'BRIEN: 10 from a three-machine operation to a two-11 What about the other side? If there's less 11 machine operation to, you know, a total planned outage. 12 demand, the forecasted demand drops. 12 MR. O'BRIEN: 13 MR. HAYNES: 13 14 Well, that would just basically come down, Α. 14 0. But this idea of potentially, I guess, 15 do we shut down machines or we would, you 15 reacting to a change in forecast, is that 16 know – typically we don't shut down Holyrood built into these instructions or is it just 16 17 because of a few hours' change, but it may 17 a judgment call that you expect that on 18 mean we don't operate a gas turbine or 18 (unintelligible). 19 instead of operating the gas turbine, maybe 19 MR. HAYNES: 20 we just staff the gas turbine in case it 20 A. Well, they would look at the total quantity 21 comes back or something like that. That 21 of change. If we lost, you know – if we had 22 depends on the amount of change and what the 22 a machine trip at Bay D'Espoir of, you know, 23 forecast is. 23 75 megawatts or a loss to Holyrood unit, MR. O'BRIEN: 24 24 they would have to go back and look. If 25 So, when you say typically you don't shut 25 it's a minor change, they can probably Q.

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1	manage that by just readjusting the load and	1	is so that basically we plan for an N minus	
2	so on. And energy control centre does have	2	one scenario. So, we plan for the loss of	
3	the dispatch and from a Holyrood point of	3	the largest generator. So, if the largest	
4	view, it's a communication between the	4	generator on that day is 160 megawatts or	
5	control centre and the Holyrood control	5	170, 150, we would plan for that – from a	
6	room. For Bay D'Espoir units, they do have	6	system design point of view, it would be	
1 7	the – you know, they can change the loading	7	170. From an operational point of view that	
8	on the units automatically from the control	8	if we lose – if it's 160, we want to be able	
9	room.	9	to lose 160 megawatts, if something happens,	
10	MR. O'BRIEN:	10	realizing that there may be under frequency	
11	Q. Okay.	11	load shedding today because we don't have,	
12	MR. HAYNES:	12	you know, all the – under frequency load	
13	A. So, they can redispatch from that	13	shedding is considered part of our reserve,	
14	perspective.	14	from that perspective. That we want to be	
15	MR. O'BRIEN:	15	able to return a normal state within a short	
16	Q. Yeah, without shutting it off?	16	period of time and give Newfoundland Power,	
17	MR. HAYNES:	17	for instance, say okay, we had an under	
18	A. Yeah, yeah. And some of the – actually, the	18	frequency event. In three or four or five	
19	remote plants like Cat Arm and Granite Canal	ı	minutes, you can go back to your normal	
20	and Upper Salmon, they can start and stop	20	load, and then they will start to pick up	
21	from the control centre. In Bay D'Espoir,	21	their load. So, we would redispatch	
22	the folks in Bay D'Espoir start the machine,	22	generators. We would increase the load on	
23	then they turn the control over to control	23	the hydro machines or the other thermal	
24	centre, so they can change the load from 40	24	machines or start a gas turbine to meet that	
25	megawatts to 30 or to 50, whatever is	25	load. On the transmission side, an N minus	
<u>-</u> -	Page 246		Page 248	
1	required.	1	one would mean that we can survive – for	
2	MR. O'BRIEN:	2	instance, we talked about 267. If TL267	
$\frac{2}{3}$	Q. And maybe we could turn to – scroll down a	3	were to trip today, the customer should not	
4	little bit as well, and the idea here of the	4	see anything happen. So, that's the N minus	
5	assessment and – assessment of Avalon	5	one. If you go to an N minus two, that's a	
6	reserve, I want to get your thoughts, just	6	usually higher level of reliability which we	
7	on a high level, in terms of the concept of	7	have not designed the system for. That	
8	the N minus one largest contingency.	8	means that we would have, possibly to say	
	MR. HAYNES:	9	lose two lines from Bay D'Espoir. We will	
10	A. Yes.	10	not survive losing two lines from Bay	
11	MR. O'BRIEN:	11	D'Espoir. N minus one has been a pretty	
12	Q. Can you explain that to me? Sort of we	12	standard practice for us for ages. So,	
13	talked earlier about potential deratings of	13	basically on that transmission and	
14	a unit versus a nameplate, that kind of	14	generation, it's losing the-	
15	thing.	15	MR. O'BRIEN:	
16	MR. HAYNES:	16	Q. The largest unit gone?	
17	A. Okay. So, the N minus one basically,	17	MR. HAYNES:	
18	particularly means that a unit, some asset,	18	A. The largest unit or one transmission line.	
19	usually a generator or a transmission line	19	So, anything beyond that -	
20	has been taken out of service.	20	MR. O'BRIEN:	
20 21	MR. O'BRIEN:	21	Q. Or one transmission (unintelligible).	
$\begin{vmatrix} 21\\22\end{vmatrix}$	Q. Right.	22	MR. HAYNES:	
23	MR. HAYNES:	23	A would normally – I mean, it would be a	
23	A. So, you know, the planning criteria from the	23	longer return period to get the customers	
25	point of view of our – our planning criteria	25	back online.	
1 43	point of view of our – our praining efficita	L 23	UAUN UIIIIIIU.	

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1	MR. O'BRIEN:	1	need it. So, that would be part of our
2	Q. And the one trans – in terms of the rating	2	reserve.
3	of those transmission lines versus the	3	MR. O'BRIEN:
1		1	
4	largest say unit at Holyrood, what's the	4	Q. Okay.
5	difference?	5	MR. HAYNES:
6	MR. HAYNES:	6	A. But it's not spinning reserve. Spinning
7	A. The N minus one covers that off because in	7	reserve would be if – you know, if -
8	the N minus one, what the system	8	MR. O'BRIEN:
9	transmission planning folks would do who	9	Q. It's on.
10	work in Mr. LeBlanc's shop, they would look	1	MR. HAYNES:
11	at the – several cases on – they don't look	11	A. Pardon?
12	at this every day. This would be kind of on	12	MR. O'BRIEN:
1	· · ·	1	
13	– you know, when they look at the overall	13	Q. It's on. It's -
14	system design, they would look at losing the	14	MR. HAYNES:
15	largest line and are we going to cause	15	A. Spinning reserve, yeah, well, under
16	overloads in other lines? Because if you	16	frequency load shedding and some of our
17	cause an overload, then that basically means	17	contaminate things, we would consider as
18	we have to go back and we'd typically look	18	spinning because we can get them, you know,
19	for ways around that. It could be through	19	practically instantaneously. But spinning
20	redispatch of generation or it could mean	20	reserve, if our Bay D'Espoir machine is on
21	that we have conductors that we – or	21	50 megawatts and good for 72, then there's
22	transmission lines that we need to	22	22 megawatts in that machine that's spinning
23		23	and available and that can react faster to
1	reinforce, build new lines, or replace the		
24	conductor, if that's possible, and that's	24	slow down the under frequency load shedding.
25	not always possible, depending on the	25	MR. O'BRIEN:
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1	design. So, they would look at all those	1	Q. If it's not a full -
2	contingencies and they would look at peak	2	MR. HAYNES:
3	load flows. They would look at, you know,	3	A. Not at full, the amount above to full
4	typically they would look at different load	4	throttle, if you will, would be our spinning
5	situations and ensure that we can get	5	component and the reserve part of spinning.
6	through that N minus one without any grief.	6	MR. O'BRIEN:
7	MR. O'BRIEN:	7	Q. And when you use your N minus one
/		/ 0	
8	Q. And that – and when we talk about spending	1	contingency, your spinning reserve is your N
9	reserves then, so even just reserve, let's	9	minus one the largest unit plus 70? Is that
10	talk about reserve, I guess, in terms of	10	what you're spinning reserve -
11	what you're looking for is the N minus one	11	MR. HAYNES:
12	as your – the operations seem to work on N	12	A. I'm not sure of the specifics right now. I
13	minus one plus one half we're spinning	13	thought it was 50, but I'm not – maybe Mr.
14	regardless?	14	LeBlanc could answer that.
15	MR. HAYNES:	15	MR. O'BRIEN:
16	A. That's on a reserve. That's where we're up	16	Q. I understand it to be – and maybe we can go
17	right now, about 240 megawatts is our	17	back. It may be even in this document.
18	reserve. That doesn't – that's not all	18	MR. HAYNES:
19		19	A. I thought it was 50. I thought it was 50
	spinning.	1	
20	MR. O'BRIEN:	20	percent, but -
21	Q. Okay. Well, explain that to me.	21	MR. O'BRIEN:
22	MR. HAYNES:	22	Q. 50 percent, and I said 70 megawatts is maybe
23	A. Well, if you have a gas turbine that's	23	what -
24	available but not operating, so it's there.	24	MR. HAYNES:
	It's available for soming was just don't	25	A. Well, that's roughly 50 percent of our
25	It's available for service, we just don't	43	A. Well, that 8 loughly 30 percent of our

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1	largest machine.	1	MR. HAYNES:
2	MR. O'BRIEN:	2	A. Mathematically, that's possible. On the
3	Q. Of your largest machine. So that's – say,	3	day-to-day operations, I would actually
4	if you look at your largest machine at 170	4	defer that to Mr. LeBlanc and Ms. Williams
5	nameplate, if it's rated at 150, why	5	
	* '		to actually give the day-to-day mechanics of
6	wouldn't you have – would you have a	6	it.
7	spinning reserve then for 225, half of the	7	MR. O'BRIEN:
8	150 is 75, so you'd have 225 or would you	8	Q. And the reason I'm asking is you mentioned
9	keep (unintelligible).	9	earlier about running the CT being not
10	MR. HAYNES:	10	necessarily being as cost effective as
11	A. I'm not sure of all the math mechanics that	11	running Holyrood.
12	go into this one here. I would suggest that	12	MR. HAYNES:
13	Mr. LeBlanc would be – and possibly Ms.	13	A. But the intention is that if we don't need
14	Williams would be the -	14	to run the CTs and we don't need it for
15	MR. O'BRIEN:	15	spinning reserve, we would shut it down.
16	Q. Is it possible to have too much reserve on	16	So, the gas turbine in Holyrood, which is
17	the system?	17	120-23 megawatts has a minimum run of 40
18	MR. HAYNES:	18	megawatts. But if you look at the load
19	A. Well, if you have reserve that's on the	19	forecast and you see that it's holding a
20	system that's actually hydro generation,	20	little bit and the load is not dropping off,
21	you're operating at an economic point, then	21	you know, it may be a decision by the
22	it's not a problem. If you have thermal	22	operator that they're going to leave it on
23	generation on the system that's operating	23	for a little while because there's a risk
24	and you don't need it, that could be an	24	
25	issue. I don't think we're in that	25	that it will go to the load for – it's not
23		23	tapering as planned. So, there are
<b> </b>	Page 254		Page 256
	situation very often, but – because we also	1	judgments involved every day on that and,
2	have to balance that with the – you know,	2	you know, and that's what they do. They do
3	when you talk about the Avalon, we still	3	that. If we see in hindsight that there may
4	need the capacity available. So, you know,	4	have been a rare occasion whereby left on a
5	it is – I don't think there's a straight	5	little bit longer, you know, Ms. Williams
6	piece of math that says yes and no. I think	6	would go back and question "why are we
7	every situation is unique from that	7	running the gas turbine? We should have
8	perspective.	8	shut that down." What that is – that is not
9	MR. O'BRIEN:	9	a common event, but it has happened. It's
10	Q. But in terms of a piece of math, in terms of	10	rare, but you know, I wouldn't – but that's
11	how you operate, you do use the largest unit	11	just the diligent facts to operating the
12	plus one and a half as your -	12	system, but there is human judgment required
13	MR. HAYNES:	13	in the operators to say the load is not
14	A. Well, that's my understanding, subject to,	14	falling off as fast as had planned. There
15	you know, Mr. LeBlanc and Ms. Williams as to	15	will be a conservative thing. Do we leave
16	their confirming that.	16	it on? Because we're trying to make sure
17	MR. O'BRIEN:	17	that we do not get into these alert states
18	Q. So, the largest unit is not operating or	18	of, you know, particularly, you know, load
19	able to operate at its nameplate, if the	19	reduction or calling for curtailment of
1	largest unit is derated to 150 and not able		
20		20	load. We don't mind calling Newfoundland
21	to – or not generally operating at	21	Power and say, you know, "look, we're in a
22	nameplate, would you have more reserve?	22	bit of a tight spot" but we don't want to
23	Would it be used 50 percent of the 170	23	call them and say "we need to reduce load"
24	nameplate, or is it 50 percent of what it's	24	or call for cancellation.
25	actually -	25	MR. O'BRIEN:

April 17, 2018 NL Hydro 2017 GRA Page 257 Do you have any ideas on a cost basis of 1 Q. 2 cents per kilowatt hour it is to run the CT? 3 MR. HAYNES: 4 Not off the top of my head, but Ms. Williams Α. 5 could actually provide that, but it's – I 6 don't even remember the conversion rate 7 there now. 8 MR. O'BRIEN: 9 O. 30 to 31 cent range, in that area? 10 MR. HAYNES: 11 A. Well, depending what the price of diesel 12 fuel is today, but I would defer that 13 specific answer to Ms. Williams. 14 MR. O'BRIEN: 15 This might be a good point to clue up, Q. Madame Chair. 16 17 CHAIR: 18 Q. Yeah. Tomorrow is a non-sitting day and 19 we're back at 9:00 a.m. on Thursday. I 20 guess we're back to you, Mr. O'Brien, on 21 Thursday as well. 22 23 24 25 Page 258 CERTIFICATE I, Judy Moss, hereby certify that the foregoing is a true and correct transcript of a hearing in the matter of the 2017 General Rate Application by Newfoundland Hydro heard on the 17th day of April, 2018 at the Board of Commissioners of Public Utilities, 120 Torbay Road, St. John's, Newfoundland and Labrador and was transcribed by me to the best of my ability by means of an audio recording which were not recorded by Discoveries Unlimited Inc. Dated at St. John's, Newfoundland and Labrador this 22nd day of April, 2018 Judy Moss

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