Apı	ril 11, 2016		NL Power GRA 2016
	Page 1		Page 3
$ 1 \rangle$	(9:08 a.m.)	1	you were from 2008 to 2014 the founder and
1 2	CHAIRMAN:	2	director of the Master's in Finance Program
$\frac{1}{3}$	Q. So I don't think there are any preliminary	3	at Queen's University?
4	matters, are there?	4	DR. CLEARY:
1 '	MS. GLYNN:		
\int_{0}^{5}		\int_{0}^{2}	A. That's also correct.
6	Q. Newfoundland Power has filed the remainder	6	JOHNSON, Q.C.:
7	of the undertakings and they have been	7	Q. Following the completion of your Ph.D. in
8	circulated. I don't think there were any	8	1998, you were an assistant professor in
9	comments to make on the undertakings? No,	9	Finance at St. Mary's University?
10	so that would be it, Mr. Chair.	10	DR. CLEARY:
11	CHAIRMAN:	11	A. Yes.
12	Q. So Mr. Johnson I believe now proceed to your	12	JOHNSON, Q.C.:
13	witness.	13	Q. And following that, you were an associate
14	JOHNSON, Q.C.:	14	professor in Finance and then a full
15	Q. Yes, that's right. Good morning, Mr.	15	professor in Finance at St. Mary's between
16	Chairman, Commissioners. Seated in the	16	2002 and 2007, correct?
17	witness stand is my next witness, Sean	17	DR. CLEARY:
18	Cleary. Mr. Cleary is prepared to take an	18	A. That's correct, almost ten years in total
19	oath on the Bible, Mr. Chairman.	19	there.
20	DR. SEAN CLEARY (SWORN) EXAMINATION-IN-CHIEF BY THOMAS	20	JOHNSON, Q.C.:
21	JOHNSON, Q.C.	21	
- 1	CHAIRMAN:	$\begin{vmatrix} 21\\22\end{vmatrix}$	Q. Okay. Then you went on as I understand it to become an associate dean of the Business
22		ı	
23	Q. You are now sworn, sir. Mr. Johnson?	23	School at St. Mary's University?
24	JOHNSON, Q.C.:	24	DR. CLEARY:
25	Q. Thank you. Dr. Cleary, I guess the Board	25	A. Yes.
	Page 2		Page 4
1	Page 2 doesn't know you because you haven't	1	Page 4 JOHNSON, Q.C.:
1 2	•	1 2	_
	doesn't know you because you haven't	1 2 3	JOHNSON, Q.C.:
2	doesn't know you because you haven't appeared here before. So I'm going to ask you some questions in relation to your		JOHNSON, Q.C.: Q. And then that brings us up to 2008 when you joined Queen's University as the BMO
2 3 4	doesn't know you because you haven't appeared here before. So I'm going to ask you some questions in relation to your background. Dr. Cleary, you are the Bank of	3	JOHNSON, Q.C.: Q. And then that brings us up to 2008 when you joined Queen's University as the BMO professor of Finance and director of the
3	doesn't know you because you haven't appeared here before. So I'm going to ask you some questions in relation to your background. Dr. Cleary, you are the Bank of Montreal professor of Finance at the Smith	3 4	JOHNSON, Q.C.: Q. And then that brings us up to 2008 when you joined Queen's University as the BMO
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1		which just for the record is appended to	1	number of books and book chapters as well as
2		your main evidence, that you hold a	2	developed a number of online courses and
3		designation of CFA. Can you tell us what	3	<u>*</u>
4		that designation is, please?	4	
5	DR. CLEAR	-	5	DR. CLEARY:
6	A.	Okay, well I've got, since I've been here a	6	A. That's correct. Fourteen textbooks the last
1 7		couple of times, "come from away" which I	7	I counted, and then a number of chapters and
8		understand is similar to what I hear in Nova	8	· · · · · · · · · · · · · · · · · · ·
9		Scotia growing up, but it's actually a	9	•
10		charter financial analyst, and it sounds	10	
11		little bit like the professional accounting	11	awards for papers you have presented at
12		designation, the CFA or previous to that we	12	
13		had CA and CMA. So it's a global	13	
14		organization close to 150,000 members. It's	14	
15		actually conceived by Ben Graham who is	15	· · · · · · · · · · · · · · · · · · ·
16		Warren Buffet's mentor. It's a designation	16	
17		that's held by a wide number of finance	17	
18		professionals, investment bankers, portfolio	18	
19		managers, analysts and the like. And I've	19	
20		been involved in that program since I got my	20	
21		designation in 2001 in various capacities,	21	JOHNSON, Q.C.:
22		teaching the curriculum, preparing readings	22	
23		for the curriculum. I also served in the	23	· · ·
24		Atlantic Canada CFA Society for about seven	24	
25		or eight years, my last year as president	25	
		Page 6		Page 8
$ _{1}$		before I moved to Queen's University where I	1	A. That's correct.
2		then joined the Toronto CFA Society and	2	
3		served on their board for three years. And	3	
4		again, that's - the curriculum is updated on	4	
5		a regular basis by finance professionals.	5	1
6		So it's—the economists at one time called it	6	
7		the "gold standard of financial	7	JOHNSON, Q.C.:
8		designations."	8	
9	JOHNSON, (•	9	
10	Q.	And I understand that you also worked in	10	•
11	ζ.	commercial lending?	11	• • •
1	a	-	ı	particular you to provided testimony before
11/	DR CLEARY	∤ ·	12	the Board in Alberta is that correct
12	DR. CLEARY		12	· · · · · · · · · · · · · · · · · · ·
13	DR. CLEARY A.	That's correct. After I finished my MBA, I	13	DR. CLEARY:
13 14		That's correct. After I finished my MBA, I spent some time with the Royal Bank of	13 14	DR. CLEARY: A. That's correct, on two occasions, one in
13 14 15	A.	That's correct. After I finished my MBA, I spent some time with the Royal Bank of Canada in the commercial lending.	13 14 15	DR. CLEARY: A. That's correct, on two occasions, one in their generic cost of capital proceedings
13 14 15 16	A. JOHNSON, O	That's correct. After I finished my MBA, I spent some time with the Royal Bank of Canada in the commercial lending.	13 14 15 16	DR. CLEARY: A. That's correct, on two occasions, one in their generic cost of capital proceedings for the 2013 cost of capital hearings.
13 14 15 16 17	A.	That's correct. After I finished my MBA, I spent some time with the Royal Bank of Canada in the commercial lending. O.C.: And Dr. Cleary, I note from your detailed CV	13 14 15 16 17	DR. CLEARY: A. That's correct, on two occasions, one in their generic cost of capital proceedings for the 2013 cost of capital hearings. JOHNSON, Q.C.:
13 14 15 16 17 18	A. JOHNSON, O	That's correct. After I finished my MBA, I spent some time with the Royal Bank of Canada in the commercial lending. 2.C.: And Dr. Cleary, I note from your detailed CV that you have approximately 30 peer-reviewed	13 14 15 16 17 18	DR. CLEARY: A. That's correct, on two occasions, one in their generic cost of capital proceedings for the 2013 cost of capital hearings. JOHNSON, Q.C.: Q. Right.
13 14 15 16 17 18 19	A. JOHNSON, O	That's correct. After I finished my MBA, I spent some time with the Royal Bank of Canada in the commercial lending. O.C.: And Dr. Cleary, I note from your detailed CV that you have approximately 30 peer-reviewed publications in finance and business	13 14 15 16 17 18 19	DR. CLEARY: A. That's correct, on two occasions, one in their generic cost of capital proceedings for the 2013 cost of capital hearings. JOHNSON, Q.C.: Q. Right. DR. CLEARY:
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	Page 9		Page 11
1	first dated February 17th, and the second	1	DR. CLEARY:
2	being Surrebuttal Evidence dated March 31st.	2	
3	and you have provided Replies to Requests	3	•
4	for Information from both Board staff and	4	, ,
5	Newfoundland Power. Is that correct?	5	• • •
6	DR. CLEARY:	6	, ,
7	A. That's correct.	7	
8	JOHNSON, Q.C.:	8	**
9	Q. Were these reports and answers prepared by		<u>.</u>
10	you?	10	
11	DR. CLEARY:	11	
12	A. Yes, they were.	12	
13	JOHNSON, Q.C.:	13	, , , , , , , , , , , , , , , , , , ,
1		1	
14	Q. Are there any changes that you would like to	14	e j j
15	make to those reports or to your RFI replies	15	
16	at this time?	16	1 ,
17	DR. CLEARY:	17	
18	A. No, there aren't.	18	3 88
19	JOHNSON, Q.C.:	19	
20	Q. And do you adopt the reports as your	20	
21	testimony in this proceeding along with your	21	· · · · · · · · · · · · · · · · · · ·
22	RFI replies?	22	
23	DR. CLEARY:	23	, ,
24	A. Yes, I do.	24	· , , , ,
25	JOHNSON, Q.C.:	25	risk regulated utility.
⊢		-	<u> </u>
	Page 10		Page 12
1	Page 10 Q. Okay. You have up on the screen, Dr.	1	Page 12 DR. CLEARY:
1 2	•	1 2	DR. CLEARY:
1	Q. Okay. You have up on the screen, Dr.	1 2 3	DR. CLEARY: A. Sorry. An average risk, sorry, an average
2	Q. Okay. You have up on the screen, Dr. Cleary, provided basically a PowerPoint	1	DR. CLEARY: A. Sorry. An average risk, sorry, an average risk utility at best.
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1	and of course that's a positive for Canada,	1	I actually had time to read the paper this
2	our major trading partner. On the other	2	weekend, you know that the unemployment rate
3	hand we have the Euro that's still in – you	3	had dropped from 7.3 percent back down to
4	know, still cleaning up their mess in the	4	7.1 percent. So and hopefully we'll start
5	banking system and Japan that's basically	5	to recover as oil prices are going up and so
6	been in recession since 1990s. So they're	6	on and so forth and the other sectors. Now
7	still chugging along very slowly. And also,	7	how does this translate into the
8	as we've heard through the trial, that	8	Newfoundland and Labrador economy? Well,
9	China's growth is slowing. It's interesting	9	here's – if you look at Table 7 from my
10	that after the discussions last week there	10	evidence, these were the Conference Board of
11	was an interesting article in the Globe	11	Canada forecasts for – and I highlight in
12	talking just about that transition from an	12	red the 2016 2017 numbers because they are
13	industrial economy to a consumption economy,	13	the test period in question here. And we
14	and projected to grow at just over six	14	can see that at that time they were
15	percent, and so a big – not the double-digit	15	forecasting for just a slight decline during
16	growth we've seen before which of course has	16	2015 with also a decline, a bigger decline,
17	taken its toll on commodity prices along	17	in 2016, and then a slight growth in 2017.
18	with the transition in their economy. So we	18	In their update that was presented and I
19	have some oil importing countries that are	19	think Mr. Coyne discussed it in his
20	doing well, some of the other Asian	20	evidence, we saw the 2015 appear to turn out
21	countries, and then we have exporters such	21	much worse than expected, minus 5.4 percent.
22	as Brazil and, you know, Canada to a certain	22	So that's the bad news. The good news is
23	•	23	that maybe some, hopefully a lot of it, has
24	extent not doing so well. And if we look at the bottom line there which is in Table 2 of	23	- · ·
25		25	washed through the economy and they're
23	my evidence, overall one would look at that	23	forecasting, you know at least slightly
1	Page 14	1	Page 16
1	and say that that's not a bad consensus		positive now in 2016, and then getting, well
2	forecast for growth for the world, around	2	not quite normal, but still improving to 1.1
3	three percent for both years. Improving for	3	percent for 2017. I also noted in my
4	the U.S. at 2 ½ percent and of course	4	evidence that – and it didn't update this in
5	there's that slow growth in the Euro zone	5	the winter section, but the utility sector
6	that was noted. So globally we could say	6	you can see is positive all along, and
7	it's not terrible, but mixed. It depends on	7	that's consistent with what I kind or ague
8	where you're sitting, which country. Now if	8	in my evidence and I'm going to talk about
9	we translate, what that looks like for	9	it in the next couple of slides that
10	Canada or how that global scenario factors	10	utilities are more resilient to economic
11	and affects Canada, and here's some numbers	11	change because it's something that people
12	from the consensus forecast from IMF and	12	need. It's one of the last things that
13	OECD. We see that basically we see solid,	13	they're going to cut back on. So and you
14	but unspectacular real GDP growth in the two	14	know to kind of sum up on this, of course
15	percent area. Then again, we've got this	15	the economic outlook could be better. We'd
16	two-speed economy going on with the oil and	16	all be happier, but Newfoundland Power has
17	gas industries and the non-energy commodity	17	demonstrated resiliency to previous
18	industries, you know, not doing so well at	18	downturns. And I discuss this in my
19	the present time and haven't over the last	19	evidence, but also the 2015 annual
20	two - three years rather. And then we see	20	statements came up since I prepared my
21	in the non-resource sector which is about 84	21	evidence, and at the time we didn't really
22	percent of the economy that seem to be	22	have an idea of what the GDP growth would be
23	chugging along and in fact improving a	23	in 2015. It now appears that it wasn't as –
24	little bit as a result of the drop in the	24	it was worse than expected, yet in
25	Canadian dollar. And we saw that also, when	25	Newfoundland Power's revenues grew by 3.7
	Discoveries Unlimite		

Page 19 1 percent, its operating earnings grew and it earned an ROF of 18 basis points over the allowed of 5 R percent. So that 's allowed of 5 R percent. So that 's coursistent with some of the evidence provided in Figures 5 and 6 as I'm just defined area, but they're operating in a defined area, but they're operating in a gend so in -I'll come back to that summation statement in a second. So this is Figure 5 from my evidence. And what I've charted here is read GDP growth for Newfoundland and I Labrador versus the sales growth of I S to find its percentage change in revenue growth, and we can see that 's is grown fairly consistently through it, in fact I tim, the average was 3.4 percent growth over the period. Now, real GDP for Newfoundland and Labrador or the other brain growth over the period. Now, real GDP for Newfoundland and Labrador or the other primary reason used for asserting growth over the period. So that's a couple of fithings to grown fairly consistently through it, in fact I tim the main point I wanted to note is there's six years during this period during which real GDP growth was positive. So that indicates some resiliency to economic downturns. And if we was positive. So that indicates some resiliency to economic downturns. It's not good for them, the wart to add 2015 which wasn't part of my original chart, then we have seven years so feel where where were years where that's happened. So that to me indicates, as I would expect, that work out in terms of chird operating earnings? Well the next like hows quite clearly, and I didn't plot GDP against it, but it's the same period and you can see that it's the profitable utility. One could say, well, in the next like hows quite clearly, and I didn't plot GDP against it, but it's the same period and you can see that it's the profitable utility. One could say, well, in the next like hows quite clearly, and I didn't plot GDP against it, but	April 11, 2016			NL Power GRA 2016
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10	8	second. So this is Figure 5 from my	8	that the economic decline has made
1	9		9	Newfoundland Power above-average business
12 Newfoundland Power. And you can see there's just one year where sales did not grow. So the blue line again is the revenue growth of it. So that's a percentage change in revenue growth, and we can see that's it's grown fairly consistently toonsistently consistently consis	10	real GDP growth for Newfoundland and	10	risk, I would say that my evidence clearly
13	11	Labrador versus the sales growth of	11	shows that that's not an appropriate
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16 revenue growth, and we can see that's it's grown fairly consistently through it, in 17 18 fact I think the average was 3.4 percent 18 fact I think the average was 3.4 percent 19 growth over the period. Now, real GDP for 19 DR. CLEARY:	14	the blue line again is the revenue growth	14	Q. Okay. How would you respond, Dr. Cleary, to
17	15	for it. So that's a percentage change in	15	the other primary reason used for asserting
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during all six of those years, sales growth was positive. So that indicates some resiliency to economic downturns. And if we want to add 2015 which wasn't part of my original chart, then we have seven years where that's happened. So that to me mechanisms in place. They have a very were would and Power would be resilient to mechanisms in place. They have a very were regulator, and this - you know I mechanisms in place. They have a very were regulator, and this - you know I mechanisms in place. They have a very were regulator, and this - you know I mechanisms in place. They have a very were regulator, and this - you know I mechanisms in place. They have a very wuportive regulator, and this - you know I mechanisms in place. They have a very wuportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator, and this - you know I mechanisms in place. They have a very supportive regulator		Page 18		Page 20
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1		to oil. The other part about it is during	1	hearings and decisions, it was quite clear
2		the test period, we're looking at 2016,	2	that both sides agreed that Nova Scotia - or
3		2017, well first of all those costs haven't	3	sorry, Newfoundland Power was an average-
4		come through yet. So I don't understand the	4	risk regulated utility. That seems a
5		rationale of increasing the cost now because	5	logical statement to me. They operate a
6		they're going to increase in two years.	6	virtual monopoly; they're in electricity
7		That's number 1. Number 2, if you look at	7	distribution. They're not in generation.
8		the forecast period, it's not a period of	8	They're well protected through various
9		strong economic growth, and when we're	9	procedures and mechanisms and they operate
10		looking at switching costs of 10 to 20	10	under extremely supportive regulatory
11		thousand dollars, I don't see people going	11	regime. So for example, the DBRS August
12		out and that's the time to convert to	12	21st, 2015 Rating Report states that, "The
13		something and spending 10 and 20 thousand	13	procedures and mechanisms in place allows
14		dollars on it. At least I know I have five	14	Newfoundland Power to recover all prudently
15		kids and it certainly wouldn't be foremost	15	spent operating expenses and earn a
16		on my mind. I'd be trying to get through	16	reasonable return." So I don't think that
17		the next five months. So I don't see any	17	there's – that the rating agency seemed to
18		evidence that the costs are not going to be	18	think that all of a sudden Newfoundland
19		able to be passed on. Is the cost increase	19	Power is going to be able to recover
20		you know a good thing? Of course not. Can	20	prudently-spent expenses, and similar with
21		it be dealt with? I believe it can be dealt	21	capital expenditures by having preapproval
22		with, so I don't see that as a major risk.	22	for the capital expenditures that take away
23	(9:30 a.m.)	,	23	the risk of those not being recovered. So
24	A.	I also notice that supply reliability came	24	my general conclusions there, I call them my
25		up in the evidence presented by Mr. Coyne,	25	qualitative conclusions based on, you know,
		Page 22		Page 24
1		but that it - you know, on several occasions	1	analyzing the facts as they were, that's
2		it's been acknowledged that nobody really	2	pretty consistent with what the debt rating
3		can conclude on this. There's a detailed	3	agencies are saying. So as noted in the
4		study underway and I'm kind of the same as	4	response to one of my RFIs I said, Moody's –
5		anybody else. I don't know exactly how this	5	the first two points under "Rating Drivers"
6		thing is going to turn out. And to me just	6	were "low-risk regulated electric utility;
7		because it's – I understand that there's,	7	"supportive regulatory and business
8		you know, a large distance involved, 1100	8	environment." The DBRS in the report noted
9		kilometres or whatever it is, but I still	9	previously, "The confirmations reflect the
10		don't – can't conclude that a new plant 1100	10	stable nature of the Company's regulated
11		kilometres away is going to be less reliable	11	electricity distribution business and its
12		than one that's close to the hub, but	12	solid financial risk profile." So none of
13		anyways, as I said, I don't speculate on	13	this to me looking at it suggests that they
14		that. I think that's something probably for	14	have above-average risk by any definition,
15		the next hearing.	15	and my quantitative analysis of the business
16	JOHNSON, O	•	16	risk below confirms the conclusions by just
17	Q.	Dr. Cleary, how does the above-average risk	17	examining the facts as I have.
18	Ų.	assessment for Newfoundland Power compare	18	JOHNSON, Q.C.:
19		with your conclusions?	19	Q. Dr. Cleary, we note that this slide that we
ı		•	20	have before us refers to your quantitative
120	DR CLEVD	1.		analysis of business risk. Can you tell the
20	DR. CLEAR	Coming into it I found that were curprising	21	
21	DR. CLEAR' A.	Coming into it I found that very surprising	21	· ·
21 22		to assert that given what I had read, you	22	Board why you undertook a quantitative
21 22 23		to assert that given what I had read, you know read about the situation and what I	22 23	Board why you undertook a quantitative analysis of business risk? And can you also
21 22		to assert that given what I had read, you	22	Board why you undertook a quantitative

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1	Newfoundland Power's business risk?	1	variability in operating profits and also
2	DR. CLEARY:	2	the variability in bottom-line profits
3	A. Yes. Thank you. The reason I undertook a	3	caused by financial leverage. And that's
4	quantitative analysis is because most people	4	the financial risk component which I'll get
5	would agree that business risk is reflected	5	to in a few moments. So with this in mind,
6	in operating earnings as I'm going to get to	6	I know from looking at textbooks and the CFA
7	in a second. And being a finance guy, if	7	curriculum and actually looking at analyst
8	there's a way that you can quantify things	8	reports and whatnot, that one common measure
9	instead of just waving your hands and	9	is of operating income volatility or
10	saying, "This is more risk," and "This is	10	business risk is the coefficient of
11	less risk," it's always nice if you can go	11	variation of EBIT. And why the coefficient
12	jump to punch line to you will, because all	12	of variation of EBIT is because, as I
13	of those factors that have been discussed	13	mentioned earlier, EBIT are earnings before
14	here that affect the business risk, a large	14	interest and taxes is probably the most
15	number of factors, but you put them all	15	commonly employed measure of operating
16	together and the impact should be on	16	income. Why do – what's does coefficient of
17	business risk or the operating earnings. So	17	variation mean? It means you divide the
18	with that in mind, I said okay, let's see if	18	standard deviation by the average rather
19	what I believe to be so, that Newfoundland	19	than just use the standard deviation. Why
20	Power is low business risk, that these U.S.	20	do you divide the standard deviation by the
21	utilities, because they're holding companies	21	average? Because you do so to account for
22	and for a variety of other reasons I'll	22	differences in size. So for example, if we
23	discuss I think they're a much higher	23	took one company that had an EBIT of 50
24	business risk. When I look at the numbers,	24	million, and took the standard deviation of
25	is that what it's telling me? So first of	25	it, it might be say 15 million. If we took
F	Page 26		Page 28
1	all I thought I'd just start out by just a	1	another one, and it had an EBIT of 500
2	couple of definitions of business risk. So	2	million, and it was the same volatility, it
$\frac{2}{3}$	CFA curriculum and I discussed the CFA	3	might have a standard deviation of 150
4	curriculum earlier. Business risk is the	4	million, but they have the same volatility,
۱ -	risk associated with operating earnings.	_ ا	but the scale makes the conclusions using
$\begin{vmatrix} 5 \\ 6 \end{vmatrix}$	They're risky because total revenues are	6	the standard deviation way of. When you
7	risky as well as the cost of producing those	7	divide by the average, it accounts for this
8	revenues. Dr. Roger Morin, who presented in	8	difference in the size. You divide by the
9	the 2003 hearings here and I believe	9	50 million or the 500 million, and so you
10	probably before that as well, refers to,	10	get a relative scale that makes sense. So I
11	"The relative variability of operating	11	use three different variations of this
12	profits induced by the external forces of	12	coefficient of variation of EBIT. So from
13	demand, foreign supply of the firm's	13	now on I'll just refer to it as CV of EBIT.
14	products, by the presence of fixed costs the	14	So the first one is the standard deviation
15	extent of diversification or lack thereof of	15	of EBIT over the entire 20-year period that
16	services and by the character of	16	I looked at, divided by the expected EBIT.
17	regulation." Okay? So again talking about	17	I determined the expected EBIT by taking the
18	operating profits and in fact Mr. Coyne	18	2014 EBIT and multiplying it by one plus the
19	agreed with the presence that operating risk	19	median growth rate in EBIT over the entire
20	shows up in earnings when he was on the	20	period. So it gives you an indication of
21	stand. So I don't think that there's a	$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	how big it would be next year. I also used
22	great debate that when we talk about	22	another one which I call five-year rolling
23	business risk, we're generally talking about	23	estimate of the coefficient variation of
24	variability in operating profits. When we	24	EBIT where I take the standard deviation of
25	talk about total risk, we're talking about	25	EBIT where I take the standard deviation of EBIT over the previous five years and divide
	taik about total fisk, we le talking about	143	LDIT OVER the previous live years and divide

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1	it by the average of EBIT over the previous	1	don't think you – this kind of to me is a
2	five years. And then I – that gives me 15	2	very definitive word on the discussions that
3	five-year estimates, and I take the average	3	we had in terms of, you know, we talked
4	of those 5 estimates. Finally and probably	4	about the U.S. utilities and the fact that
5	more simply, I just take the coefficient	5	they were holding companies, the fact that
6	variation of the EBIT over sales ratio which	6	they had more generation risks than
7	is kind of like the EBIT margin or operating	7	Newfoundland Power, that there was
8	profit margin that people would often refer	8	regulatory differences and there was
9	to. This is generally close to it or	9	historic test year versus forward test year.
10	actually it, depending on people's	10	And all of these, you know, different issues
11	definitions of operating profits. So this	11	that we were discussed and probably some
12	one works very simple, and I just take the	12	more non-regulated competition for those
13	standard deviation of that ratio over time	13	U.S. utilities, all of the things that I
14	and divide by the average of EBIT, the sales	14	would, you know, conclusions I would come to
15	over that time. I would note that the third	15	qualitatively show up very clearly in the
16	measure, the EBIT to sales is not subject to	16	analysis. And one of the comments in the
17	growth in EBIT or due to rate base or	17	rebuttal was that this was inappropriate
18	whatever because it's just a ratio through	18	because I'm using holding companies for the
19	time and the fact that a company has little	19	U.S. sample and I'm using operating
20	- is able to earn an allowed operating	20	companies for the Canadian companies and
21	profit margin if you will, through time with	21	I'm, like, of course it's inappropriate to
22	little variability in that profit margin	22	compare holding companies to operating
23	suggests that there's not much variation in	23	companies and that's exactly what I was
24	their EBIT, that they're not very high one	24	trying to show here, that you can't—I
25	year and negative another year. Okay, so	25	wouldn't say quite apples and oranges, but
	Page 30		Page 32
1	this is - these are the main results from	1	they're apples and crab apples, if you will.
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	that analysis, and hopefully I think it	2	So, they're a different beast. So, the U.S.
$\begin{bmatrix} 2 \\ 3 \end{bmatrix}$	shows up fairly clear, at least it does in	$\begin{bmatrix} 2 \\ 3 \end{bmatrix}$	ones are clearly riskier. So taking them at
4	mind, but the main points show up very	4	face value and comparing them to the
1			1 0
5	clear. If you see the two high bars on the	5	Canadian utilities is not a valid comparison
6	left, in the middle and on the third thing,	6	which is, in fact, why I don't use the U.S.
7	those are the coefficient variation of EBIT	7	ones in my future analysis. The other point
8	or the five-year CV of EBIT or the CV of	8	I did want to make, sorry, before I rush off
9	EBIT to sales for the U.S. firms. And	9	this slide, if you look at the last column
10	they're all well over .20, close to .30 in	10	over there, that's the EBIT to sales ratio
11	some cases. In fact, for the CV EBIT over	11	and you can see that all of the are in the
12	sales there over .30. Now that - they look	12	15 to 20 percent range. So, if you look at
13	very high in relationship to the - the red	13	that from an investor point of view, maybe a
14	and the purple bars are for the Canadian	14	private equity investor, you want to buy the
15	proxy group that I use which are Canadian	15	business, if you wanted to buy a business
16	operating utilities or close to I guess with	16	and you could get the same operating profit
17	Gaz Metro. It's not quite, but it closer	17	margin and less volatility in that profit
18	than a holding company. And the other two	18	margin, then you would say that's a much
19	Nova Scotia Power and Enbridge Gas are	19	better purchase. If you're risk adverse,
20	operating companies, and then of course on	20	you'd say well, okay, Newfoundland Power is
21	the last there we see Newfoundland Power	21	17.6 percent average EBIT. The U.S.
22	which is a little bit below the Canadian	22	utilities are 18.6 percent. So, fairly
23	proxy group and we see that less than half	23	close, but the volatility in those operating
24	of the U.S. or in some cases less than a	24	profit margins are much lower for
25	third. So they're much, much smaller. I	25	Newfoundland Power.

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1	Okay, so with that all being said and I	1	A.	Okay, so again, business risk, very low,
2	think I've pretty much mentioned these as we	2		certain much lower than the U.S. proxy group
3	go along that this evidence shows clearly	3		using in these proceedings. Financial
4	that Newfoundland Power possesses much lower	4		risks, well, there's generally two ways
5	business risk than the U.S. proxy group, not	5		you'd look at the financial risk. You'd
6	surprisingly, as discussed, slightly lower	6		look at the allowable ROEs and the equity
7	business risk than the other Canadian	7		ratios or ERs. And if we look and I just
8	operating utilities. Although I don't focus	8		summarize the data and tables, 9 and 10 of
9	on the difference here because my general	9		my evidence. And as mentioned, Newfoundland
10	impression and what I know is most regulated	10		Power has slightly above average allowed ROE
11	Canadian utilities that aren't heavily in	11		and well above average equity ratio. I
12	generation are very low risk anyways. So,	12		don't think this point has been—no one has
13	the other thing that I did want to mention	13		disputed this factor in the proceeding. So,
14	is there's a lot of discussion about betas	14		that's just a given fact. Turning to the
15	last week and I did discuss betas in my	15		other way of looking at this is to look at
16	evidence. It's also consistent if you look	16		credit metrics as another measure of
17	at—I don't think there was any debate that	17		financial risk. And when we start doing
18	the U.S. utilities had higher betas. It was	18		that, the primary concern—well, I shouldn't
19	whether it be .5 or .6 was the discussion	19		say the primary—one of the concerns is with
20	and whether U.S. was .6 and Canada was .5,	20		the debt rating agency. Now, Mr. Coyne's
21	for example. Well, let's just say that's	21		evidence suggests that the debt rating in—I
22	the truth. I think Mr. Coyne's evidence is	22		was accused—I shouldn't say accused, but it
23	.67 and .6, but if you looked at it and you	23		was alluded to in the rebuttal evidence that
24	said, okay, if they have the same business	24		I was conducting my analysis on the mistaken
25	risk, then they should both have a beta of	25		belief that Newfoundland Power was A rated
	Page 34			Page 36
1	.5. Let's say .5 is the number you start	1		when, in fact, they BAA rated by Moodys.
2	with. Now, if one utility has more	2		So, Mr. Coyne's argument suggests that it's
3	financial risk than the other, ie. Higher	3		one notch—Newfoundland Power's debt rating
4	leverage, then we would expect its beta to	4		is one notch below the Canadian proxy group
5	be .6. I'm just pulling these numbers out	5		of A I take exception to this statement
6	for illustrative purposes and the other one	6		because this ignores the issue—sorry, this
7	would stay at .5, it has lower financial	7		ignores that the issue rating on the first
8	risk. But on the other hand we know that	8		mortgage bonds is actually A2 by Moodys.
9	the U.S. utilities have less leverage, yet	9		And that's noted in the Moody's report.
10	their betas are .7 versus .6 or .6 versus	10		It's also noted in the Fortis Investor
11	.5. It clearly shows that the U.S.	11		presentation that Dr. Booth provided in his
12	utilities in this sample have higher	12		evidence. It also ignores the fact that
13	business risk because they have lower	13		Newfoundland Power is rated A by DBRS. And
14	financial risk, yet they have higher betas.	14		all of the ratings that Mr. Coyne uses are
15	So, that's consistent with my analysis. And	15		S&P ratings and there's no reason to suggest
16	it's consistent with all the discussions	16		that an S&P rating and a Moody's rating will
17	that have been going on about the comparison	17		fall in the same line. In fact, I would
18	of these two.	18		argue that it's more likely that it would be
19	So, in short this quantitative analysis	19		closer to the DBRS, although I can't say for
20	supports very strongly the assertions I made	20		sure because they all do their own thing.
21	earlier.	21		So just for example, FortisAlberta
22 JOHNSON,		22		Inc., they're A low by DBRS, A-, which is
23 Q.	Dr. Cleary, what about Newfoundland Power's	23		the equivalent of A low by S & P, and B-AAA1
24	financial risk profile?	24		stable, the sample as Newfoundland Power by
25 DR. CLEAR	Y:	25		Moody's. My belief, if there was an S & P

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1	rating for Newfoundland Power, it would	1	is also extremely high at 17.7 percent, well
2	probably be A- or probably A, somewhere in	2	above the average, and, in fact, above any
3	there, but I cannot say that's the case, but	3	of the numbers for any of the other
4	it seems to me more likely just looking at	4	utilities. The same can be said about the
5	the evidence. So let's take a look at what	5	EBIT interest coverage ratio at 3.06, which
6	my – when I did a metric comparison in Table	6	is also well above the numbers for the
7	11 of my evidence, rather than prepare – try	7	industry average. The 2.16, I would kind of
8	to go out and gather all the data and	8	note, is an average. Yet all of these
9	prepare all these metrics myself, I said,	9	utilities are A or A low rated, or A high,
10	well, let's just look at somebody who's	10	right. So there's that interest coverage
11	doing this on a consistent basis, and so I	11	and there's the 2.2, and I notice there's
12	chose the DBRS because they tend to have	12	been a lot of discussion about that, and I
13	ratings for all the Canadian utilities, and	13	will come back to this point later, but
14	then you need two ratings, so some go with S	14	there it is under 2.2, and all of those are
15	& P and less go with Moody's. If you look	15	A rated and they have lower equity ratios
16	at these numbers based on the most recent	16	too, I might add. So, in fact, out of all
17	debt rating reports that were available to	17	of those six companies, there's not one of
18	me at the time I did my analysis, which was	18	them that has any of those three metrics
19	February, I believe, you can see that on all	19	that's better than Newfoundland Power. So
20	three metrics Newfoundland Power is better	20	clearly, according to the credit metrics,
21	than all of these others Canadian regulated	21	and according to the allowed ROE and ERs,
22	utilities, and perhaps I'll just point out a	22	that Newfoundland Power has lower financial
23	couple of things here. CU Inc., that you	23	risk these comparable companies.
24	see on the top, is different than CU	24	JOHNSON, Q.C.:
25	Limited, which Mr. Coyne used. CU Inc., is	25	Q. Dr. Cleary, what conclusions do you have
	Page 38		Page 40
1	actually a holding company, but it's a	1	regarding Newfoundland Power's total risk
2	holding company of the operating companies.	2	profile?
3	Where CU Limited is above it, it's very	3	DR. CLEARY:
4	confusing if you see the charts for them,	4	A. If we combine the discussion above, clearly
5	but they own CU Inc., and they also own some	5	Newfoundland Power is low business risk and
6	other businesses. So it's not an operating	6	they have lower financial risk than similar
7	company, but it's close to an operating	7	Canadian operating utilities; why, because
8	company that's comprised of operating	8	they have slightly above average ROEs and
9	companies. Enbridge Gas, FortisAlberta,	9	much higher than average allowed ERs, or
10	FortisBC Inc., and Nova Scotia Power, we	10	equity ratios, and they have better metrics.
11	know are all operating companies, and Gaz	11	Combining low business risk and low
12	Metro Limited Partnership is a holding	12	financial risk tells me they have low total
13	company primarily of three operating	13	risk, which is, you know, what I would
14	companies which is distribution of gas in	14	expect from a regulated utility. Earning an
15	Quebec and in Vermont, New Hampshire. So	15	ROE above the allowed ROE for 19 of the last
16	they're not quite operating companies, but	16	20 years confirms this, because I would look
17	they're further down the line than a holding	17	at ROE as a measure of total risk because it
18	company. Anyway, along these lines we can	18	reflects business risk. It's reflected in
	COMBAILY. Allyway, along mose mics we can	1	Tellevis Cosmess list. It s lettered ill
l .		19	operating income financial risk is the
19	see that Newfoundland Power is A rated,	19 20	operating income, financial risk is the transition from operating income to net
19 20	see that Newfoundland Power is A rated, which is – you know, these are ranging from	20	transition from operating income to net
19 20 21	see that Newfoundland Power is A rated, which is – you know, these are ranging from A high to A low. They clearly are much	20 21	transition from operating income to net income, and ROE captures both of those
19 20 21 22	see that Newfoundland Power is A rated, which is – you know, these are ranging from A high to A low. They clearly are much better on total debt to capital, which is	20 21 22	transition from operating income to net income, and ROE captures both of those impacts; business risk and financial risk.
19 20 21 22 23	see that Newfoundland Power is A rated, which is – you know, these are ranging from A high to A low. They clearly are much better on total debt to capital, which is consistent with the fact that they have the	20 21 22 23	transition from operating income to net income, and ROE captures both of those impacts; business risk and financial risk. In fact, it's 20 of 21, if we want to
19 20 21 22	see that Newfoundland Power is A rated, which is – you know, these are ranging from A high to A low. They clearly are much better on total debt to capital, which is	20 21 22	transition from operating income to net income, and ROE captures both of those impacts; business risk and financial risk.

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1	to suggest they're above average risk. If	1	criteria for Moody's are, I would say, U.S.
2	anything, it's might be slightly below	2	centric, and all we have to do is look at
3	average, but I don't think it's necessary to	3	the last one there, the debt to
4	make that judgment relative to other	4	capitalization ratio, their criteria for the
5	Canadian utilities. They're low risk, and	5	debt to capitalization ratio is that it
6	if I look at the rating reports for them and	6	would be less than 50 percent. Of course,
7	for other Canadian utilities, the strength	7	there's no Canadian utility that I can think
8	it always low business risk and they always	8	of that has more than a 50 percent equity
9	rate excellent on it, so I don't see	9	ratio, so they're never going to get A on
10	anything in my analysis that suggests	10	that criteria. Again as we know, the allowed
11	otherwise.	11	ROEs and equity ratios in the U.S. are
12	JOHNSON, Q.C.:	12	higher, probably offsets their higher
13	Q. Dr. Booth, could you please next discuss	13	business risk, but the criteria that Moody's
14	your credit metric – I'm sorry, Dr. Cleary,	14	makes, they haven't really tailored it to
15	could you please discuss your credit metric	15	Canadian utilities as much. So if we then
16	analyses for Newfoundland Power?	16	look at the DBRS metrics, we see that along
17	DR. CLEARY:	17	the cash flow to debt, the debt to capital,
18	A. Yes, thank you. So what I've done here is	18	and the EBIT to interest which is another
19	I've got three tables related to credit	19	name for the interest coverage ratio, that
20	metric analysis, and if we look at the first	20	they're in the A high to AA low category, so
21	table, it's Table 13, and this is under	21	very strong. Even under existing rates, they
22	existing rates and all of the data here for	22	would remain in that category. So the next
23	2015, 2016, 2017, were taken from Exhibit 3,	23	thing I thought that I would do that would
24	I believe, of Newfoundland Power's evidence,	24	help the Board in their decision was to look
25	and if we look at these numbers, what I did	25	at what would happen under various ROE and
	Page 42		Page 44
1	was I took the numbers as indicated in an	1	equity ratio scenarios. I'm going to skip
2	RFI response, and I provided the Excel sheet	2	over Table 14 because that's using the 45
3	exactly where the numbers came from and how	3	percent equity ratio. We'll look at Table
4	I came about them, and I calculated these	4	15, what happens if you vary the allowed ROE
5	metrics according to the standard guidelines	5	and vary the equity ratio. So when we get
6	provided by Moody's in one of their	6	to this point, we can see that the ratios
7	documents and also for DBRS provided in one	7	are still well within the Moody's B-AA
8	of their documents I went through, and if we	8	category, and the DBRS metrics remain well
9	look at these numbers, we can see – first of	9	in the A range, and that's for 2016 on this
10	all, it's probably useful to spend a moment	10	slide, and then on the next slide for 2017.
11	to look at the difference between the	11	Again the metrics are not all the debt
12	Moody's rating criteria, where they fall in	12	rating agencies look at. In fact, they're
13	terms of B-AA to A, so on and so forth. If	13	going to look at business risk and it's
14	we look at the Moody's metrics for the cash	14	pretty much a stamp that it's excellent for
15	flow, pre-working capital, plus interest	15	business risk, you know, unless something
16	over interest, so that's like a cash flow	16	unforeseen happens, but these Canadian
110	· · · · · · · · · · · · · · · · · · ·		* *
17	interest coverage ratio, and a cash flow to	17	utilities are going to rate very high in
1	interest coverage ratio, and a cash flow to debt ratio and cash flow minus dividends to	18	business risk, and if their metrics, you
17	· · · · · · · · · · · · · · · · · · ·		
17 18	debt ratio and cash flow minus dividends to	18	business risk, and if their metrics, you
17 18 19	debt ratio and cash flow minus dividends to debt ratio, and then finally the debt to	18 19	business risk, and if their metrics, you know, remain within the range that they have
17 18 19 20	debt ratio and cash flow minus dividends to debt ratio, and then finally the debt to capitalization ratio, we see that	18 19 20	business risk, and if their metrics, you know, remain within the range that they have been, they're going to maintain that rating.
17 18 19 20 21	debt ratio and cash flow minus dividends to debt ratio, and then finally the debt to capitalization ratio, we see that Newfoundland Power, these ratios remain	18 19 20 21	business risk, and if their metrics, you know, remain within the range that they have been, they're going to maintain that rating. I would note that even under some of the
17 18 19 20 21 22	debt ratio and cash flow minus dividends to debt ratio, and then finally the debt to capitalization ratio, we see that Newfoundland Power, these ratios remain strong and they remain in the B-AA mid to	18 19 20 21 22	business risk, and if their metrics, you know, remain within the range that they have been, they're going to maintain that rating. I would note that even under some of the scenarios presented, of course, the metrics

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1	Page 45		Page 47
1	previous table because they were well above	1	"not surprisingly", but if you look at this
2	average. So even if they do weaken, it	2	next table, and it's almost useful to look
3	doesn't mean that they're falling off a	3	in segments of two to compare Newfoundland
4	cliff, it just means that they're coming	4	Power 2016, for example. In the rebuttal
5	back to the average from well above average.	5	evidence 7.5 percent ROE and the 40 percent
6	JOHNSON, Q.C.:	6	equity ratio, and in my Table 15, you can
7	Q. Dr. Cleary, do you have any comments	7	see the cash flow to debt coverage are
8	regarding the credit metrics provided by	8	fairly similar. We're off a little bit
9	Newfoundland Power both for previous years	9	there, 15.9 versus – they actually have a
10	and pro forma metrics based on future	10	higher ratio than me. The same for the cash
11	estimates?	11	flow to interest coverage, they actually
12	(10:00 a.m.)	12	have a higher number than me, but then the
13	DR. CLEARY:	13	interest coverage again, they're about that
14	A. Yes, I do. First of all, this came up in my	14	10 percent lower than my estimate. If we go
15	rebuttal evidence, and there's a difference	15	over to the next two columns and we look at
16		16	it, we see very close for cash flow to debt
1	in the interest coverage ratios that are	17	•
17 18	being reported using the same financial statement information, or at least I can	18	coverage, and this is again for 2017 and the 7.5 percent and 40 percent equity ratio.
1		1	1 1 1
19	honestly say I was never provided the exact details of all of the information used in	19	It's 14.5 versus 14.78; 3.5 versus 3.5, so
20		20	exactly the same, and again 10 percent lower
21	the calculations of these interest coverage	21	in the interest coverage ratio. Then
22	ratios, which is kind of a – I'll come back	22	finally in Undertaking 4, I believe, that
23	to that in a second, but that's the only one	23	was discussed two weeks ago, I guess now, we
24	where we seem to disagree on. So as noted	24	see that for 8.3 percent ROE and a 40
25	in my evidence, rather than go forecast, if	25	percent equity ratio, Newfoundland Power had
	Page 46		Page 48
1	I go back and look at 2013/2014, two years	1	15 percent, I had 15.3 percent, and we had
2	that are already in the books, so to speak,	2	virtually the same for cash flow interest
3	we had slight – well, enough of a	3	coverage, and then there's about that 10
4	difference, maybe almost a 10 percent	4	percent difference on the interest coverage
5	difference, where I got 2.48 and 2.52 using	I =	
1		5	ratio. So this led me to scratch my head
6	the numbers from Exhibit 3 and the revised	6	and try to figure out what's going on here.
1	version of Exhibit 3. Oddly, DBRS has even		and try to figure out what's going on here. So I thought maybe I'd just take a moment to
6 7 8	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little	6	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio
6 7 8 9	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here,	6 7	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways
6 7 8	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which	6 7 8	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio
6 7 8 9	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end	6 7 8 9	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start -
6 7 8 9 10	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which	6 7 8 9 10	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up
6 7 8 9 10 11	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end	6 7 8 9 10 11	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take off your operating costs. That leaves your
6 7 8 9 10 11 12	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're	6 7 8 9 10 11 12	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take
6 7 8 9 10 11 12 13	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average.	6 7 8 9 10 11 12 13	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take off your operating costs. That leaves your
6 7 8 9 10 11 12 13 14	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average. Now the funny thing is when we go to the	6 7 8 9 10 11 12 13 14	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take off your operating costs. That leaves your EBITDA, your earnings before interest,
6 7 8 9 10 11 12 13 14 15	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average. Now the funny thing is when we go to the cash flow related measures, that we get	6 7 8 9 10 11 12 13 14 15	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take off your operating costs. That leaves your EBITDA, your earnings before interest, taxes, and depreciation. If you then take
6 7 8 9 10 11 12 13 14 15 16	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average. Now the funny thing is when we go to the cash flow related measures, that we get almost the same ratios, both in the pro	6 7 8 9 10 11 12 13 14 15 16	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start - do a top down, and start with revenues, take off your operating costs. That leaves your EBITDA, your earnings before interest, taxes, and depreciation. If you then take off your depreciation and amortization, that
6 7 8 9 10 11 12 13 14 15 16 17	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average. Now the funny thing is when we go to the cash flow related measures, that we get almost the same ratios, both in the proformas and the other. There's an old	6 7 8 9 10 11 12 13 14 15 16 17	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take off your operating costs. That leaves your EBITDA, your earnings before interest, taxes, and depreciation. If you then take off your depreciation and amortization, that gives you EBIT, or earnings before interest
6 7 8 9 10 11 12 13 14 15 16 17 18	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average. Now the funny thing is when we go to the cash flow related measures, that we get almost the same ratios, both in the proformas and the other. There's an old finance saying that earnings can vary with	6 7 8 9 10 11 12 13 14 15 16 17 18	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take off your operating costs. That leaves your EBITDA, your earnings before interest, taxes, and depreciation. If you then take off your depreciation and amortization, that gives you EBIT, or earnings before interest and taxes, the 22 in this example. If I
6 7 8 9 10 11 12 13 14 15 16 17 18 19	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average. Now the funny thing is when we go to the cash flow related measures, that we get almost the same ratios, both in the proformas and the other. There's an old finance saying that earnings can vary with various assumptions, so on and so forth, but	6 7 8 9 10 11 12 13 14 15 16 17 18 19	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take off your operating costs. That leaves your EBITDA, your earnings before interest, taxes, and depreciation. If you then take off your depreciation and amortization, that gives you EBIT, or earnings before interest and taxes, the 22 in this example. If I then take off the 6 in interest, we get 16
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average. Now the funny thing is when we go to the cash flow related measures, that we get almost the same ratios, both in the proformas and the other. There's an old finance saying that earnings can vary with various assumptions, so on and so forth, but at the end of the day a company, their cash	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take off your operating costs. That leaves your EBITDA, your earnings before interest, taxes, and depreciation. If you then take off your depreciation and amortization, that gives you EBIT, or earnings before interest and taxes, the 22 in this example. If I then take off the 6 in interest, we get 16 for earnings before taxes, and if we
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average. Now the funny thing is when we go to the cash flow related measures, that we get almost the same ratios, both in the proformas and the other. There's an old finance saying that earnings can vary with various assumptions, so on and so forth, but at the end of the day a company, their cash flows in and their cash flows out, it	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start-do a top down, and start with revenues, take off your operating costs. That leaves your EBITDA, your earnings before interest, taxes, and depreciation. If you then take off your depreciation and amortization, that gives you EBIT, or earnings before interest and taxes, the 22 in this example. If I then take off the 6 in interest, we get 16 for earnings before taxes, and if we applied, say, a 25 percent tax rate, then we
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	version of Exhibit 3. Oddly, DBRS has even higher numbers than me. So it's a little bit of a puzzle as to what's going on here, but I would note that even at the 2.3, which one would have to consider at the lower end of what this ratio actually is, that they're still in good shape and still above average. Now the funny thing is when we go to the cash flow related measures, that we get almost the same ratios, both in the proformas and the other. There's an old finance saying that earnings can vary with various assumptions, so on and so forth, but at the end of the day a company, their cash flows in and their cash flows out, it doesn't matter what you call them, earnings,	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	and try to figure out what's going on here. So I thought maybe I'd just take a moment to go through how this interest coverage ratio is calculated. There's two different ways you can do it, okay, and I just brought up some simple numbers here. You can start do a top down, and start with revenues, take off your operating costs. That leaves your EBITDA, your earnings before interest, taxes, and depreciation. If you then take off your depreciation and amortization, that gives you EBIT, or earnings before interest and taxes, the 22 in this example. If I then take off the 6 in interest, we get 16 for earnings before taxes, and if we applied, say, a 25 percent tax rate, then we get the net income of 12. So the top down,

April 11, 2016			NL Power GRA 2016
	Page 49		Page 51
1	above there, I'd add back the 4 in taxes,	1	that they had forecast for 2017, subtracted
2	I'd add back the 6 in interest, and I'd get	2	the 55 million that they're going to pay for
3	22. So you should get the same number no	3	the dividends, that should give me about 440
4	matter which way you come from. Of course,	4	million. If I use that number and take
5	you'll always get the same number if you	5	27,455 and divide by it, I get an ROE of
6	provided all the information. In the	6	6.24 percent, which that's why I've got the
7	evidence, this is what was pulling my hair	7	question marks there because this is
8	out, I was either given the top down	8	supposed to be a scenario where you're
9	information or the bottom up information, so	9	evaluating an 8.3 percent ROE. The numbers
10	I couldn't confirm the whole picture. So	10	don't add up to me. Am I using the wrong
11	just to carry on with this point without	11	common equity – it would be nice if I had
12	belabouring it too much, but if I do look at	12	all the data so I could tell you exactly
13	Table 1 in U7 where Newfoundland Power	13	what's going on, but I had to work
14	provided calculations used to figure out	14	backwards. Did it work out; sure, because
15	their earnings test ratio, which is actually	15	implied debt figure was 674 using –
16	the interest coverage ratio, except with the	16	basically, they had 600 million and 75
17	new interest on the bond issue added onto	17	million debt issue. That implies 675, and
18	that interest amount, so the existing	18	again I'm guesstimating 440. Does that work
19	interest plus the extra interest on the	19	out; yeah, it's close to a 40 percent equity
20	bond. Also I would add, the other reason	20	ratio. It's 39.5 percent. So it seems they
21	that number is lower than the interest	21	got the 40 percent equity ratio going on,
22	coverage ratio is because they use, from	22	but these numbers do not give an 8.3 percent
23	what I understand from reading the	23	ROE. If I assume that they got the ROE
24	transcript, they use the EBIT from the	24	correct at 8.3 percent, I could also back
25	trailing 12 month period as opposed to the	25	out that the equity figure would have to be
	Page 50		Page 52
1	future EBIT. Now if you think of that, EBIT	1	330,780, which would imply an equity ratio
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	has been growing steadily from my chart, so	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	of 33 percent. So again this confusion may
$\begin{bmatrix} 2 \\ 3 \end{bmatrix}$	that's going to leave that number – it's	$\frac{2}{3}$	be if all the data was provided could be
4	going to be lower than the interest coverage	4	avoided, as I mentioned. My data is out
1 -	ratio used by Moody's, for example, but it's	l	there, it's an Excel spreadsheet, I used all
5	in their bond indenture, so it is what it	5	· • • • • • • • • • • • • • • • • • • •
6 7		6 7	the company data. Everyone can see my
	is, but I'm just explaining why those two	ı	calculations, so it's easy to figure out
8	ratios might be different. So if we look at	8 9	what I did in terms of estimating this metric. There's a discrepancy, and I'm not
9	it, the number that they constructed by	l	* * * * * * * * * * * * * * * * * * * *
10	going by revenues and operating expenses and	10	quite sure why, so I just thought it would
11	so on, they got \$80,199,000.00. They didn't give the net income or earnings before taxes	11 12	be useful to the Board to point this out.
12			JOHNSON, Q.C.:
13	data, but if we subtracted the interest	13	Q. And I take it, you have a separate table –
14	figure that they did provide, which is	14	DR. CLEARY:
15	41,454, that's the new interest after the	15	A. Oh, sorry.
16	issue, we get an earnings before taxes	16	JOHNSON, Q.C.:
17	figure of 38,745. If we then apply 29.14	17	Q. Yeah.
18	percent tax rate, which is pretty consistent	18	DR. CLEARY:
19	with what they paid through the years and	19	A. Yes, so in contrast, I do go through and I
20	was provided by them in Exhibit 3, that	20	start with an 8.3 percent ROE – sorry, just
21	gives me a net income figure of 27,455. Now	21	by contrast, here's what I do. It's an 8.3
22	the common equity figure, again they didn't	22	percent ROE and the 40 percent. There's lots
23	provide it, but I worked backwards and	23	of ways you can get to a 40 percent equity
24	figured out that it's probably going to be	24	ratio. I chose a very simple way, issue 102
25	about 440 million, because I took the 495	25	million in debt, and you don't have to do

		Page 53		Page 55
1		the liquidating dividend, it doesn't really	1	I don't think the 45 percent is necessary.
2		matter how – you know, obviously that's a	2	My credit metric – I mean, my risk
3		decision Newfoundland Power would make,	3	conclusion suggests this is the case,
4		whatever makes the most sense for them.	4	they're not riskier on either business risk
5		Based on that, I then figured out what the	5	or financial risk level than comparables,
6		interest on that would be. I used the 4.45	6	and my credit metrics scenario analysis
7		percent that Newfoundland Power issued bonds	7	confirms that they'd remain within the same
8		at in September of 2015. I see no reason	8	rating areas that they are now, and they'd
9		why it would increase 1 percent. If	9	still probably be slightly above average on
10		government rates go up 1 percent, the yield	10	the credit metrics. I would also note that
11		spread is going to narrow, so the two are	11	if we're going to change – if you were going
12		going to offset to a certain extent.	12	to change it, it's a particularly good time
13		Anyway, it didn't really make – the interest	13	to issue debt because they're in historic
14		calculation was not the difference, it was	14	lows for utilities. With low interest
15		the EBIT. So then I started with the net	15	rates, even though the spreads have gone up
16		income to earn 8.3 percent, added back the	16	since 2013, it's been offset by the decline
17		29 percent taxes, added back the interest as	17	in the base rates, so it's all time low or
18		calculated, and that's how I got these	18	pretty close to it.
19		numbers.	19	JOHNSON, Q.C.:
20	JOHNSON, (20	
$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	· ·	Dr. Cleary, based on your analysis, what	21	Q. Does that conclude your direct, Dr. Cleary? DR. CLEARY:
$\begin{vmatrix} 21\\22\end{vmatrix}$	Q.	conclusions have you reached and what	22	
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$			23	, , , , , , , , , , , , , , , , , , ,
1		recommendation do you have for the Board		JOHNSON, Q.C.:
24 25		regarding Newfoundland Power's capital structure?	24 25	Q. Thank you very much. CHAIRMAN:
23		structure?	23	CHAIRMAN.
		P 54		D 5/
	DD CLEAD	Page 54	1	Page 56
1	DR. CLEAR	Y:	1	Q. You're finished, Mr. Johnson?
1 2 2	DR. CLEAR A.	Y: So as mentioned, I think they're low	1 2	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.:
1 2 3		Y: So as mentioned, I think they're low business risk, they're a virtual monopoly,	3	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir.
1		Y: So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong	_	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN:
3 4 5		Y: So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue,	3 4 5	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly.
3 4 5 6		Y: So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in	3 4 5 6	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.:
3 4 5 6 7		Y: So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also	3 4 5 6 7	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and
3 4 5 6 7 8		Y: So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable	3 4 5 6 7 8	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over
3 4 5 6 7 8 9		So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low	3 4 5 6 7 8 9	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed,
3 4 5 6 7 8 9 10		Y: So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low financial risk because they have about	3 4 5 6 7 8 9	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed, original evidence, that in terms of your
3 4 5 6 7 8 9 10 11		So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low financial risk because they have about average ROE and well above average equity	3 4 5 6 7 8 9 10	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed, original evidence, that in terms of your experience in giving cost of capital
3 4 5 6 7 8 9 10 11 12		So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low financial risk because they have about average ROE and well above average equity ratio, the credit metrics are above average,	3 4 5 6 7 8 9 10 11 12	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed, original evidence, that in terms of your experience in giving cost of capital evidence in relation to utilities, you're
3 4 5 6 7 8 9 10 11 12 13		So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low financial risk because they have about average ROE and well above average equity ratio, the credit metrics are above average, and they've earned an ROE – you know, as I	3 4 5 6 7 8 9 10 11 12 13	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed, original evidence, that in terms of your experience in giving cost of capital evidence in relation to utilities, you're fairly new at this, correct?
3 4 5 6 7 8 9 10 11 12 13 14		So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low financial risk because they have about average ROE and well above average equity ratio, the credit metrics are above average, and they've earned an ROE – you know, as I said at the bottom of the business and	3 4 5 6 7 8 9 10 11 12 13 14	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed, original evidence, that in terms of your experience in giving cost of capital evidence in relation to utilities, you're fairly new at this, correct? DR. CLEARY:
3 4 5 6 7 8 9 10 11 12 13 14 15		So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low financial risk because they have about average ROE and well above average equity ratio, the credit metrics are above average, and they've earned an ROE – you know, as I said at the bottom of the business and financial risk gets reflected in the ROE and	3 4 5 6 7 8 9 10 11 12 13 14 15	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed, original evidence, that in terms of your experience in giving cost of capital evidence in relation to utilities, you're fairly new at this, correct? DR. CLEARY: A. Yeah, this would be my third hearing. It's
3 4 5 6 7 8 9 10 11 12 13 14 15 16		So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low financial risk because they have about average ROE and well above average equity ratio, the credit metrics are above average, and they've earned an ROE – you know, as I said at the bottom of the business and financial risk gets reflected in the ROE and their ability to earn their allowed ROE.	3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed, original evidence, that in terms of your experience in giving cost of capital evidence in relation to utilities, you're fairly new at this, correct? DR. CLEARY: A. Yeah, this would be my third hearing. It's rare to be called new at my age, but
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low financial risk because they have about average ROE and well above average equity ratio, the credit metrics are above average, and they've earned an ROE – you know, as I said at the bottom of the business and financial risk gets reflected in the ROE and their ability to earn their allowed ROE. The fact they've been able to do so for the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed, original evidence, that in terms of your experience in giving cost of capital evidence in relation to utilities, you're fairly new at this, correct? DR. CLEARY: A. Yeah, this would be my third hearing. It's rare to be called new at my age, but refreshing, I would say.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		So as mentioned, I think they're low business risk, they're a virtual monopoly, low risk distribution area, strong regulatory support, resiliency in revenue, EBITDA through time, low volatility in operating income. I would add also operating income margins that are comparable to average with less volatility in them, low financial risk because they have about average ROE and well above average equity ratio, the credit metrics are above average, and they've earned an ROE – you know, as I said at the bottom of the business and financial risk gets reflected in the ROE and their ability to earn their allowed ROE. The fact they've been able to do so for the last 21 years confirms their low total risk. I would not agree with the assertion that they're above average risk, and I would say they're average, if not a little bit below. Therefore, I would suggest that the 40	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. You're finished, Mr. Johnson? JOHNSON, Q.C.: Q. I am, sir. CHAIRMAN: Q. Mr. Kelly. DR. SEAN CLEARY – CROSS-EXAMINATION BY KELLY, Q.C.: Q. Dr. Cleary, welcome to Newfoundland and Labrador. I understand, if I take you over to page 1 of your evidence that you filed, original evidence, that in terms of your experience in giving cost of capital evidence in relation to utilities, you're fairly new at this, correct? DR. CLEARY: A. Yeah, this would be my third hearing. It's rare to be called new at my age, but refreshing, I would say. KELLY, Q.C.: Q. We all have to start somewhere. DR. CLEARY: A. Yes. KELLY, Q.C.:

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		Page 57			Page 59
1	А. Т	Γhat's correct.	1	(10:15 a.m.)	
2	KELLY, Q.C.:		2	KELLY, Q.C.	
3		You haven't written a report or testified in	3	Q.	Right, over 12 years. Then you come over to
4	-	any other jurisdiction other than the report	4		page 12 at the bottom and you say, "The
5		hat you note for the chicken farmers of	5		January 2016 consensus forecast for 10 year
6		Ontario in line 12 on the screen. Am I	6		Canada bond yields were 1.7 percent for the
7		correct in that?	7		end of April 2016, 2.1 percent for the end
8	DR. CLEARY:		8		of January, up from a 2015 year end value of
9		With the exception that I have prepared a	9		1.4 percent. If we assume the increases
10		report for the ongoing Alberta hearings.	10		occurred", and I'll skip through the next
11	KELLY, Q.C.:	eport for the ongoing riberta hearings.	11		sentence, and then you say, "Assuming that
12		Yes, that's what I'm saying.	12		the long term average 50 basis point spread
13	DR. CLEARY:	res, that s what i in saying.	13		of 30 year yields over the 10 year yields
14		Vag the energ that are ecourring right new	14		persists throughout 2016 and 2017, this
1		Yes, the ones that are occurring right now.	ı		
15	KELLY, Q.C.:	Voy filed a report and testified in Alberta?	15		implies long term rates would increase from
16	-	You filed a report and testified in Alberta?	16		their 2015 year end level of 2.16, for an
17	DR. CLEARY:	3.7	17		average of 2.25 through 2016 and would like
18		Yes.	18	DD CLEADY	around 2.16 by January, 2017". So you -
19	KELLY, Q.C.:		19	DR. CLEARY	
20	-	And there's one report in relation to the	20	A.	Excuse me, sorry, it's 2.6 percent by
21		chicken farmers of Ontario in Ontario?	21	WELLIN 0.0	January 2017.
22	DR. CLEARY:		22	KELLY, Q.C.	
23		Right, and just to clarify because I am	23	Q.	2.6 percent. So you take the interest rate
24		under oath, I have filed a report for the	24		forecast for 2016 and you combine it with a
25	A	Alberta hearings that are currently	25		12 year average of what the spread will be,
		Page 58			Page 60
1	u	inderway.	1		correct?
2	KELLY, Q.C.:		2	DR. CLEARY	:
3	Q. T	Then the next thing I want to take you to is	3		Yes.
4	_	well, before I move on to that, I take it	4	KELLY, Q.C.:	
5	th	hat you don't purport to have any expertise	_	Q.	And
6		hat you don't purport to have any expertise	5	Q.	And –
I -	11	n terms of utilities operation or utilities	6	DR. CLEARY	
7		, , ,	Ι.	DR. CLEARY	
8		n terms of utilities operation or utilities	6	DR. CLEARY A.	:
1	DR. CLEARY:	n terms of utilities operation or utilities	6 7	DR. CLEARY A.	: Sorry, I would note that that 2.25 percent
8	DR. CLEARY:	n terms of utilities operation or utilities egulation per se?	6 7 8	DR. CLEARY A.	Sorry, I would note that that 2.25 percent would be somewhere during 2016, and clearly 2.6 percent would be at January of 2017.
8 9	DR. CLEARY: A. N KELLY, Q.C.:	n terms of utilities operation or utilities egulation per se?	6 7 8 9	DR. CLEARY A. KELLY, Q.C.:	Sorry, I would note that that 2.25 percent would be somewhere during 2016, and clearly 2.6 percent would be at January of 2017.
8 9 10	DR. CLEARY: A. N KELLY, Q.C.: Q. C	n terms of utilities operation or utilities egulation per se? No, that's not my background.	6 7 8 9 10	DR. CLEARY A. KELLY, Q.C.:	Sorry, I would note that that 2.25 percent would be somewhere during 2016, and clearly 2.6 percent would be at January of 2017. Understood.
8 9 10 11	DR. CLEARY: A. N KELLY, Q.C.: Q. C	n terms of utilities operation or utilities egulation per se? No, that's not my background. Can I take you next to page 11 of your	6 7 8 9 10 11	DR. CLEARY A. KELLY, Q.C.: Q. DR. CLEARY	Sorry, I would note that that 2.25 percent would be somewhere during 2016, and clearly 2.6 percent would be at January of 2017. Understood.
8 9 10 11 12	DR. CLEARY: A. N KELLY, Q.C.: Q. C	n terms of utilities operation or utilities egulation per se? No, that's not my background. Can I take you next to page 11 of your eport, and this deals with your interest	6 7 8 9 10 11 12	DR. CLEARY A. KELLY, Q.C.: Q. DR. CLEARY	Sorry, I would note that that 2.25 percent would be somewhere during 2016, and clearly 2.6 percent would be at January of 2017. Understood. Okay.
8 9 10 11 12 13	DR. CLEARY: A. N KELLY, Q.C.: Q. C re	n terms of utilities operation or utilities egulation per se? No, that's not my background. Can I take you next to page 11 of your eport, and this deals with your interest ate forecast, and if I can flip over to	6 7 8 9 10 11 12 13	DR. CLEARY A. KELLY, Q.C.: Q. DR. CLEARY A. KELLY, Q.C.:	Sorry, I would note that that 2.25 percent would be somewhere during 2016, and clearly 2.6 percent would be at January of 2017. Understood. Okay.
8 9 10 11 12 13 14	DR. CLEARY: A. N KELLY, Q.C.: Q. C re p S	n terms of utilities operation or utilities egulation per se? No, that's not my background. Can I take you next to page 11 of your eport, and this deals with your interest atte forecast, and if I can flip over to page 12 first at the bottom of the page,	6 7 8 9 10 11 12 13 14	DR. CLEARY A. KELLY, Q.C.: Q. DR. CLEARY A. KELLY, Q.C.: Q.	Sorry, I would note that that 2.25 percent would be somewhere during 2016, and clearly 2.6 percent would be at January of 2017. Understood. Cokay.
8 9 10 11 12 13 14 15	DR. CLEARY: A. N KELLY, Q.C.: Q. C re p S c	n terms of utilities operation or utilities egulation per se? No, that's not my background. Can I take you next to page 11 of your eport, and this deals with your interest ate forecast, and if I can flip over to page 12 first at the bottom of the page, samantha, down around line 17 or so, you	6 7 8 9 10 11 12 13 14 15	DR. CLEARY A. KELLY, Q.C.: Q. DR. CLEARY A. KELLY, Q.C.: Q.	Sorry, I would note that that 2.25 percent would be somewhere during 2016, and clearly 2.6 percent would be at January of 2017. Understood. Okay. My question to you is, the spreads which
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DR. CLEARY: A. N KELLY, Q.C.: Q. C re ra p S c a lo a if DR. CLEARY: A. I m th	n terms of utilities operation or utilities egulation per se? No, that's not my background. Can I take you next to page 11 of your eport, and this deals with your interest ate forecast, and if I can flip over to tage 12 first at the bottom of the page, samantha, down around line 17 or so, you ome up with an interest rate forecast of bout 2.6 percent, and you do that by pooking at the 10 year rate and then looking the spread between 10 and 30 years rates, if I take you back to page 11, correct? 'm not – I can see on page 11 where I	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DR. CLEARY A. KELLY, Q.C.: Q. DR. CLEARY A. KELLY, Q.C.: Q. DR. CLEARY A. KELLY, Q.C.: Q. DR. CLEARY A. KELLY, Q.C.:	Sorry, I would note that that 2.25 percent would be somewhere during 2016, and clearly 2.6 percent would be at January of 2017. Understood. Okay. My question to you is, the spreads which were in 2015, as you noted on the previous page, were about 76 basis points, correct? Right. They still are 76 basis points? Probably somewhere in that vicinity.

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		Page 61			Page 63
1		about 75/76 basis points to the end of 2016?	1		bonds and either way you're well into the 3s
2 1	DR. CLEARY	*	2		throughout 2017, correct, because even the
3	A.	They could be.	3		10 year spread, as you go out – 10 year bond
1	KELLY, Q.C	•	4		yield by the end of 2017 is 3.05 percent?
5	Q.	Could be? Well, let's put up Dr. Booth's	5	DR. CLEARY	· · · · · ·
6	ζ.	surrebuttal at page 3.	6	A.	Well, that's what this table is suggesting.
1	DR. CLEARY	ž -	7	KELLY, Q.C.	
8	A.	I can honestly say that forecasting the	8	Q.	Okay.
	11.	spread between 10 and 30 years was nothing	9	DR. CLEARY	•
10		that I looked at for this particular hearing	10	A.	It's not my evidence, nor would I say that I
11		because it wasn't central to my evidence,	11	Λ.	necessarily share that belief. I do believe
12		but I seem to recall that number.	12		*
1	VELLV O.C		13		they're going up. I think it's going to take a while.
	KELLY, Q.C		I	KELLY O.C.	
14	Q.	But since you dealt with it, I want to deal	14	KELLY, Q.C.	
15		with it.	15	Q.	Now the next thing I want to turn to is page
1	DR. CLEARY		16		13 of your evidence, and at page 13 you
17	Α.	I understand, yes.	17		start talking about the Newfoundland
	KELLY, Q.C		18		economy.
19	Q.	And if we look at the Canada lines and we	19	DR. CLEARY	
20		look in 2016, and you can pick whichever	20	A.	Uh-hm.
21		2016 one you want, if we take the third	21	KELLY, Q.C.	:
22		quarter, it's 165 and 240, at the end of the	22	Q.	Come down to the bottom, Samantha, and the
23		2016 there's 70 basis points, the spreads	23		discussion runs over to the top of the next
24		are 75 basis points throughout 2016.	24		page, page 14. Keep going a bit, Samantha,
25 1	DR. CLEARY	<i>!</i> :	25		please, and bring up the table. There you
		Page 62			Page 64
1	A.	Sorry, my eyes are not very good despite	1		go. Now if you – at the top of the page at
2		being new, I guess. It looks like 65 basis	2		line 2, you say, "So there is general
3		- again this is RBC, so it's one source, but	3		agreement that the economic growth will be
4		it's probably – the bank economists all tend	4		slow for Newfoundland in the short term",
5		to be fairly close, so I would accept that	5		and then if you look at the Table 6 data
6		it's quite possible.	6		you've got, the Table 6 data actually shows
1	KELLY, Q.C.	• •	7		not that the growth will be slow, but that
8	Q.	And then you have to look out through 2017	8		the growth will be negative, agreed?
9	Q.	to see what the interest rates are going to	9	DR. CLEARY	
10		be because we have a 2017 test year, agreed?	10	A.	Agreed.
	DR. CLEARY		11	KELLY, Q.C.:	•
12	A.	Agreed, but if you look at the same data	12	Q.	So calling the growth slow is a little bit
1	Λ.		13	Q.	
13 14		that you're looking at during 2017, you see that spread narrowing to 60 basis points in	14	DR. CLEARY	of a rosy perspective?
		quarter one, you see it narrowing to 45	I		
15		quarter one, you see it harrowing to 43	15	A.	It was not meant to be misleading, but I
1.6			17		would agree in hindright magative in fine
16		basis points in quarter two, to 40 basis	16	KELLA O C	would agree in hindsight, negative is fine.
17		basis points in quarter two, to 40 basis points in quarter three, and 30 basis points	17	KELLY, Q.C.:	
17 18		basis points in quarter two, to 40 basis points in quarter three, and 30 basis points in quarter four, which makes my .5 not all	17 18	KELLY, Q.C.: Q.	Then we know that, in fact, the growth has
17 18 19		basis points in quarter two, to 40 basis points in quarter three, and 30 basis points in quarter four, which makes my .5 not all that bad off because it's .3 one year and .7	17 18 19		Then we know that, in fact, the growth has turned out to be much worse in 2015. It was
17 18 19 20	WELLY 0.7	basis points in quarter two, to 40 basis points in quarter three, and 30 basis points in quarter four, which makes my .5 not all that bad off because it's .3 one year and .7 the other year.	17 18 19 20	Q.	Then we know that, in fact, the growth has turned out to be much worse in 2015. It was actually –5.4 percent, correct?
17 18 19 20 21 I	KELLY, Q.C.	basis points in quarter two, to 40 basis points in quarter three, and 30 basis points in quarter four, which makes my .5 not all that bad off because it's .3 one year and .7 the other year.	17 18 19 20 21	Q. DR. CLEARY	Then we know that, in fact, the growth has turned out to be much worse in 2015. It was actually –5.4 percent, correct?
17 18 19 20 21 I 22	KELLY, Q.C. Q.	basis points in quarter two, to 40 basis points in quarter three, and 30 basis points in quarter four, which makes my .5 not all that bad off because it's .3 one year and .7 the other year. But the spread is still forecast to be 75 to	17 18 19 20 21 22	Q.	Then we know that, in fact, the growth has turned out to be much worse in 2015. It was actually –5.4 percent, correct?
17 18 19 20 21 1 22 23		basis points in quarter two, to 40 basis points in quarter three, and 30 basis points in quarter four, which makes my .5 not all that bad off because it's .3 one year and .7 the other year. But the spread is still forecast to be 75 to the end. So if you're going to look at 10	17 18 19 20 21 22 23	Q. DR. CLEARY A.	Then we know that, in fact, the growth has turned out to be much worse in 2015. It was actually –5.4 percent, correct? : According to the Conference Board estimates, yes.
17 18 19 20 21 I 22		basis points in quarter two, to 40 basis points in quarter three, and 30 basis points in quarter four, which makes my .5 not all that bad off because it's .3 one year and .7 the other year. But the spread is still forecast to be 75 to	17 18 19 20 21 22	Q. DR. CLEARY	Then we know that, in fact, the growth has turned out to be much worse in 2015. It was actually –5.4 percent, correct? : According to the Conference Board estimates, yes.

	111, 2010				THE FOWER GREAT ZOTO
		Page 65			Page 67
1	DR. CLEARY		1	DR. CLEARY	
2	A.	Yes.	2	A.	That's correct.
3	KELLY, Q.C.		3	KELLY, Q.C.	
4	Q.	And that 5.4 percent followed on the heels	4	Q.	Now the first thing we have to do with this
5		of a 2.9 percent drop in 2014, correct?	5		table is to correct the two errors in the
6		We'll look at that later on.	6		real GDP line for 2019 and 2020?
7	DR. CLEARY		7	DR. CLEARY	
8	A.	I will take that subject to check.	8	Α.	Yes, I did that –
9	KELLY, Q.C.		9	KELLY, Q.C.	
10	Q.	Okay, so we've had a couple of pretty bad	10	Q.	In an RFI.
11		years of real GDP growth – real GDP decline,	11	DR. CLEARY	
12		correct?	12	A.	In an RFI. I quoted the nominal numbers
13	DR. CLEARY		13		there instead of the real ones, which I was
14	A.	Yes.	14		referring to in the passage above.
15	KELLY, Q.C.		15	KELLY, Q.C.	
16	Q.	Come over then to page 15 where you begin	16	Q.	That's NP-CA-002, and you actually have the
17		the discussion on line 8, and you then –	17		correct numbers up above, so it's just a
18		I'll give you an opportunity to read the	18		transcribing error?
19		whole paragraph. I'm going to pick it up	19	DR. CLEARY	
20		about half way down when you're ready.	20	A.	Yes.
21	DR. CLEARY		21	KELLY, Q.C.	
22	A.	If you could just give me a second.	22	Q.	The 9.2 should be 7.0, correct?
23	KELLY, Q.C.		23	DR. CLEARY	
24	Q.	Sure.	24	A.	That's correct.
25	DR. CLEARY		25	KELLY, Q.C.	
		D ((D (0
١.		Page 66		0	Page 68
1	A.	Thank you. Okay.	1	Q.	And the +.4 for 2020 should be -1.6 percent?
1 2	KELLY, Q.C.	Thank you. Okay.	1 2	DR. CLEARY	And the +.4 for 2020 should be -1.6 percent?
1 2 3		Thank you. Okay. : Okay, about half way down you say, "Beyond	1 2 3	DR. CLEARY A.	And the +.4 for 2020 should be -1.6 percent? That's correct.
1 2 3 4	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the	4	DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? : That's correct.
5	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent	4 5	DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? : That's correct. : Now real GDP growth is the goods and
4 5 6	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by	4 5 6	DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? : That's correct. : Now real GDP growth is the goods and services being produced into the economy at
4 5 6 7	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth	4 5 6 7	DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? : That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used
4 5 6 7 8	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6	4 5 6 7 8	DR. CLEARY A. KELLY, Q.C. Q.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they?
4 5 6 7 8 9	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is	4 5 6 7 8 9	DR. CLEARY A. KELLY, Q.C. Q.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they?
4 5 6 7 8 9 10	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference	4 5 6 7 8 9	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year.
4 5 6 7 8 9 10 11	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP	4 5 6 7 8 9 10 11	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year.
4 5 6 7 8 9 10 11 12	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive	4 5 6 7 8 9 10 11 12	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the
4 5 6 7 8 9 10 11 12 13	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6	4 5 6 7 8 9 10 11 12 13	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the
4 5 6 7 8 9 10 11 12 13 14	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the	4 5 6 7 8 9 10 11 12 13 14	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of
4 5 6 7 8 9 10 11 12 13 14 15	KELLY, Q.C.	Thank you. Okay. Cokay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and	4 5 6 7 8 9 10 11 12 13 14 15	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices
4 5 6 7 8 9 10 11 12 13 14 15 16	KELLY, Q.C.	Thank you. Okay. Chay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and +5.9 respectively". Then you say, "This is	4 5 6 7 8 9 10 11 12 13 14 15 16	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices on the Newfoundland economy. This is just
4 5 6 7 8 9 10 11 12 13 14 15 16 17	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and +5.9 respectively". Then you say, "This is consistent with the low risk nature of	4 5 6 7 8 9 10 11 12 13 14 15 16 17	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices on the Newfoundland economy. This is just measuring the total of goods and services
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and +5.9 respectively". Then you say, "This is consistent with the low risk nature of utilities such as Newfoundland Power whose	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices on the Newfoundland economy. This is just measuring the total of goods and services produced in real terms?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and +5.9 respectively". Then you say, "This is consistent with the low risk nature of utilities such as Newfoundland Power whose demand is less cyclical than most	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices on the Newfoundland economy. This is just measuring the total of goods and services produced in real terms?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and +5.9 respectively". Then you say, "This is consistent with the low risk nature of utilities such as Newfoundland Power whose demand is less cyclical than most industries". That's what you say. Now I	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices on the Newfoundland economy. This is just measuring the total of goods and services produced in real terms? Conceptually, yes. After you take out the
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and +5.9 respectively". Then you say, "This is consistent with the low risk nature of utilities such as Newfoundland Power whose demand is less cyclical than most industries". That's what you say. Now I want to explore those premises in a bit more	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices on the Newfoundland economy. This is just measuring the total of goods and services produced in real terms? Conceptually, yes. After you take out the influence of inflation, the bundle of goods
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and +5.9 respectively". Then you say, "This is consistent with the low risk nature of utilities such as Newfoundland Power whose demand is less cyclical than most industries". That's what you say. Now I want to explore those premises in a bit more detail, and can we scroll up your table a	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices on the Newfoundland economy. This is just measuring the total of goods and services produced in real terms? Conceptually, yes. After you take out the influence of inflation, the bundle of goods and services actually increase.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and +5.9 respectively". Then you say, "This is consistent with the low risk nature of utilities such as Newfoundland Power whose demand is less cyclical than most industries". That's what you say. Now I want to explore those premises in a bit more detail, and can we scroll up your table a bit there, so we put the table up, and some	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices on the Newfoundland economy. This is just measuring the total of goods and services produced in real terms? Conceptually, yes. After you take out the influence of inflation, the bundle of goods and services actually increase.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	KELLY, Q.C.	Thank you. Okay. Okay, about half way down you say, "Beyond 2017, the Conference Board predicts that the unemployment rate will fall below 12 percent and decline steadily to around 11 percent by 2020 on the back of 2018-20 real GDP growth rates of +1.4 percent, +7 percent, and -1.6 percent respectively. Finally, it is interesting to note that the Conference Board expects the contribution to NL GDP from the utility sector to remain positive in 2016 and 2017, 0.4 percent and 0.6 percent respectively, and also in the ensuring three years, 0.8 percent, +1.3, and +5.9 respectively". Then you say, "This is consistent with the low risk nature of utilities such as Newfoundland Power whose demand is less cyclical than most industries". That's what you say. Now I want to explore those premises in a bit more detail, and can we scroll up your table a	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And the +.4 for 2020 should be -1.6 percent? That's correct. Now real GDP growth is the goods and services being produced into the economy at a constant rate back in – I think they used 2007 dollars, don't they? I believe it's 2007, but some fixed year. I think it's 2007. So that doesn't – the change in GDP per se doesn't capture the price effects of the fall in the value of oil and the effect of the declining prices on the Newfoundland economy. This is just measuring the total of goods and services produced in real terms? Conceptually, yes. After you take out the influence of inflation, the bundle of goods and services actually increase.

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		Page 69			Page 71
1		the 2015 number by way of example, that's	1		forecast.
2		the percentage change from the previous	2	KELLY, Q.C.:	
3		year?	3		Can I help you? About that point in time,
4	DR. CLEARY	•	4		Hebron, which the construction is now
5	A.	That's correct.	5		winding down, is going to get towed out and
6	KELLY, Q.C.:		6		it will start pumping oil in the offshore
7		Right. We'll come back to this. If we	7		which will go down to Texas. So it's oil
8	-	could put up Slide 5 for a second, so on	8		coming out of the ground and Hebron long
9		Slide 5, when we look at the top line and	9		before that will have moved from
10		you've got -0.2 and then -0.8, that's a8	10		construction and development into production
11		reduction from what your GDP would have been	11		with less employment, agreed?
12		in 2015, correct, or was in 2015?	12	DR. CLEARY	* *
13	DR. CLEARY		13		
1			ı	A.	That makes sense. I knew it had to do with
14	A.	That's correct, so if it was, like, 100,	14	WELLW O.C.	some of the major projects going on.
15		it's 99.2.	15	KELLY, Q.C.:	
16	KELLY, Q.C.:		16	Q.	So seeing 7 percent in 2019 doesn't tell us
17	•	Good example. So if you come down to the	17		anything about employment, does it, because
18		next line and you have a drop of 5.4 percent	18		it's oil being pumped out of the ground?
19		and a growth of .1 percent, that is	19	DR. CLEARY	
20		materially worse than what is reported for	20	A.	To say it would tell us nothing about
21		2015 and 2016 on the top line because you've	21		employment, I would not agree with that. It
22		had a big reduction of 5.4 percent, correct?	22		will definitely have an influence. There's
23	DR. CLEARY		23		trickle through influence as in economies.
24	A.	That's correct.	24		As to what that precise – it's not as direct
25	KELLY, Q.C.:	:	25		an influence as if it was, you know, a
		Page 70			Page 72
1	Q.	Right, and that's true as you go forward	1		mining project or something that was going
2		looking at the numbers, et cetera?	2		to gainfully employ Newfoundland and
3	DR. CLEARY	•	3		Labrador people, but definitely will have a
4	A.	It's true, but I just would like to qualify	4		positive influence on the economy.
5		that. The fact is we're looking forward to	5	KELLY, Q.C.	:
6		2016 and 2017. I understand what you're	6	Q.	But in the oil sector, once the project goes
7		saying is that even though it's positive,	7		into production, the production employment
8		it's negative, but the fact is 2015, while	8		is less than the construction and
9		it was a rough year and you mentioned 2014	9		development employment, is that not the
10		was also a rough year, they're behind us now	10		case, or are you not familiar with the oil
11		and, you know, the fact that we expect to	11		industry?
12		grow is a good thing, and also – what I	12	DR. CLEARY	•
13		should have mentioned earlier is again we're	13	A.	I'm pretty familiar with it. I grew up in
14		talking about 2014 and 2015, and	14	11.	Nova Scotia, and I would agree with -
15		Newfoundland Power sales grew in both years,	15	KELLY, Q.C.	
16		they earned their ROE – above their ROE in	16	Q.	You agree with me?
17		both years.	17	DR. CLEARY	-
18	KELLA U.C.	•	18	A.	To a certain extent.
19	KELLY, Q.C.		19		
1	Q.	Dr. Cleary, if you look at that – we'll look	ı	KELLY, Q.C.	
20		at the line that you got on the top one	20	Q.	Okay.
21		there, and you see 7 percent in 2019. What	21	DR. CLEARY	
22	DD OLDARA	would account for that?	22	A.	It does also create employment for locals,
23	DR. CLEARY		23	WELLY OC	but I would agree that not 100 percent.
1 7 4					
24 25	A.	Honestly, I can't remember. It was quite a while ago when I read the Conference Board	24 25	KELLY, Q.C.	•

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		Page 73			Page 75
1	Q.	Now, we're talking about employment, let's	1		number.
2	`	have a look at what the Conference Board of	2	DR. CLEARY	<i>'</i> :
3		Canada actually says about employment and	3	A.	Yeah, I know, sometimes it takes a while for
4		the best place to find that is if we go back	4		the estimates to become real, I was trying
5		to Newfoundland Power's original filing and	5		to confirm –
6		we look at the Conference Board report	6	KELLY, Q.C.	
7		that's contained in that and Samantha, if	7	Q.	In fact, if you look at it, you'll see the
8		you could go to the Newfoundland and	8	٧.	Fs after 2015 and 2016?
9		Labrador section of it at page 1, go through	9	DR. CLEARY	
10		the initial bit until you get to the part	10	A.	Yeah, I know, I'm just trying to verify it,
11		that deals with Newfoundland and Labrador.	11	71.	okay. So 2.9 percent, the 5.4 percent has
12		There you go. Now, Dr. Cleary, if you look	12		not been verified, it's still an estimate,
13		over on the left-hand column where it says	13		but presumably it's –
14		"real GDP growth for 2014", there's your	14	KELLY, Q.C.	•
15		negative 2.9 percent, do you see that?	15	Q.	Right, but we now have the 5.4 percent from
16	DR. CLEARY	•	16	Q.	the most recent 2015 numbers as a final, so
17	A.	Yes, I do.	17		we've lost over 8 percent in total, are we
18	KELLY, Q.C.		18		agreed?
19	Q.	That's 2014, so we lost 2.9 percent in 2014	19	DR. CLEARY	•
20	Q.	That \$ 2014, so we lost 2.9 percent in 2014	20	A.	Yes, I would have to agree with those
$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	DR. CLEARY		21	A.	numbers and I would also note that
22	A.	Sorry, can I just clarify?	$\begin{vmatrix} 21\\22\end{vmatrix}$		Newfoundland Power's sales and their profits
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$			$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$		- · · · · · · · · · · · · · · · · · · ·
23	KELLY, Q.C.	Sure.	24		went up during both years, so it comes back,
25	Q. Dr. Cleary		25		it strengthens my argument I was making
23	DR. CLEAR I		23		earlier that they're very resilient to
		Page 74	١.		Page 76
	A.	Because I think we have three Conference			downturns.
2		Board publications –	2	KELLY, Q.C.:	
3	KELLY, Q.C.		3		Follow along with me now. Let's go to the
4	Q.	We do indeed.	4		bottom of the next column over where they
5	DR. CLEARY		5	(discuss labour market and I'm going to nick
6	A.	This is the summer of 2015, right?			discuss labour market and I'm going to pick
7			6		you up about three lines from the bottom.
ĮŲ	KELLY, Q.C.	:	7		you up about three lines from the bottom. "Overall the unemployment rate will drop
8	Q.	: Right, because it's got the best discussion	7 8	:	you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this
9		Right, because it's got the best discussion of employment, okay, so we lost 2.9 percent	7 8 9	:	you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this year to an average of 12.1 percent in 2016
9 10		Right, because it's got the best discussion of employment, okay, so we lost 2.9 percent in 2014 and another 5.4 percent in 2015 for	7 8 9 10	:	you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this year to an average of 12.1 percent in 2016 as the number of Newfoundlanders looking for
9 10 11		Right, because it's got the best discussion of employment, okay, so we lost 2.9 percent in 2014 and another 5.4 percent in 2015 for an aggregate loss of over 8 percent,	7 8 9 10 11		you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this year to an average of 12.1 percent in 2016 as the number of Newfoundlanders looking for work shrinks. With slack in the labour
9 10 11 12	Q.	Right, because it's got the best discussion of employment, okay, so we lost 2.9 percent in 2014 and another 5.4 percent in 2015 for an aggregate loss of over 8 percent, correct?	7 8 9 10 11 12	; ; ;	you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this year to an average of 12.1 percent in 2016 as the number of Newfoundlanders looking for work shrinks. With slack in the labour market, household consumption will be anemic
9 10 11 12 13	Q. DR. CLEARY	Right, because it's got the best discussion of employment, okay, so we lost 2.9 percent in 2014 and another 5.4 percent in 2015 for an aggregate loss of over 8 percent, correct?	7 8 9 10 11 12 13		you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this year to an average of 12.1 percent in 2016 as the number of Newfoundlanders looking for work shrinks. With slack in the labour market, household consumption will be anemic over the next two years and the government
9 10 11 12 13 14	Q. DR. CLEARY A.	Right, because it's got the best discussion of employment, okay, so we lost 2.9 percent in 2014 and another 5.4 percent in 2015 for an aggregate loss of over 8 percent, correct?	7 8 9 10 11 12 13 14		you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this year to an average of 12.1 percent in 2016 as the number of Newfoundlanders looking for work shrinks. With slack in the labour market, household consumption will be anemic over the next two years and the government tax collection from households will be
9 10 11 12 13 14 15	Q. DR. CLEARY A. (10:30 a.m.)	Right, because it's got the best discussion of employment, okay, so we lost 2.9 percent in 2014 and another 5.4 percent in 2015 for an aggregate loss of over 8 percent, correct? Sorry, can you repeat that?	7 8 9 10 11 12 13 14 15		you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this year to an average of 12.1 percent in 2016 as the number of Newfoundlanders looking for work shrinks. With slack in the labour market, household consumption will be anemic over the next two years and the government tax collection from households will be lower." And to give you the rest of it, let
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9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. CLEARY A. (10:30 a.m.) KELLY, Q.C: Q. DR. CLEARY A.	Right, because it's got the best discussion of employment, okay, so we lost 2.9 percent in 2014 and another 5.4 percent in 2015 for an aggregate loss of over 8 percent, correct? Sorry, can you repeat that? We saw from the, previously, from the most recent data that in 2015 the economy shrank 5.4 percent and we now know that in 2014 it also shrank 2.9 percent. So that 2.9 percent has been confirmed, that's not an estimate?	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this year to an average of 12.1 percent in 2016 as the number of Newfoundlanders looking for work shrinks. With slack in the labour market, household consumption will be anemic over the next two years and the government tax collection from households will be lower." And to give you the rest of it, let me take you over to page 3 at the bottom, under "Domestic Demands Remains Weak", "The next five years are going to be belt tightening for the Newfoundland and Labrador consumers. The labour market has been hemorrhaging jobs since last year and we expect the losses to continue over the median term. Investment in most of the
9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. CLEARY A. (10:30 a.m.) KELLY, Q.C: Q.	Right, because it's got the best discussion of employment, okay, so we lost 2.9 percent in 2014 and another 5.4 percent in 2015 for an aggregate loss of over 8 percent, correct? Sorry, can you repeat that? We saw from the, previously, from the most recent data that in 2015 the economy shrank 5.4 percent and we now know that in 2014 it also shrank 2.9 percent. So that 2.9 percent has been confirmed, that's not an estimate?	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		you up about three lines from the bottom. "Overall the unemployment rate will drop from 12.7 percent in the first half of this year to an average of 12.1 percent in 2016 as the number of Newfoundlanders looking for work shrinks. With slack in the labour market, household consumption will be anemic over the next two years and the government tax collection from households will be lower." And to give you the rest of it, let me take you over to page 3 at the bottom, under "Domestic Demands Remains Weak", "The next five years are going to be belt tightening for the Newfoundland and Labrador consumers. The labour market has been hemorrhaging jobs since last year and we expect the losses to continue over the

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	Page 77		Page 79
1	we expect about 1300 positions to be	1	2019. Do you see that, Dr. Cleary?
2	eliminated each year from now until 2019.	2	DR. CLEARY:
3	Along with weaker demand for labour, workers	3	A. Yes.
4	will see their wages slashed this year as	4	KELLY, Q.C.:
5	employers try to keep costs down as they	5	Q. Okay, come back to the labour force
6	face weaker commodity prices. Wages and	6	participation rate on the previous column,
7	salaries, the industrial composite, are	7	you'll see in 2014 the labour force
8	forecast to drop by 2 percent this year, the	8	participation rate is 61 percent, do you see
9	first such decline in a decade after	9	that?
10	expanding at the breakneck pace of 5.6	10	DR. CLEARY:
11	percent per year over 2015 and 2014.	11	A. Yes, I do.
12	Looking ahead, wage growth will be modest	12	KELLY, Q.C.:
13	beyond next year as labour demand pressures	13	Q. Do you see it drops to 60.8 in 2015, 60.1 in
14	wain." Next page, Samantha. "The job	14	2016? If we go to the next page, it goes to
15	losses have pushed the unemployment rate up	15	59.9; 59.4; and 59. So the Conference Board
16	to 12.7 percent for the first half of this	16	is saying we have a 2 percent drop in the
17	year; however, it will not remain there for	17	labour force participate rate, correct?
18	•	18	DR. CLEARY:
	long as the shrinking of the province's	ı	
19	labour force will put the rate down to	19	A. That's what the numbers suggest, yes.
20	around 12.1 percent for next year. The	20	KELLY, Q.C.:
21	slide in the unemployment rate will then	21	Q. That's what the numbers say. In fact, I'm
22	continue through to 2019. The job losses,	22	going to give you one more. If you come
23	combined with lower wages, will dampen	23	down to "Housing Starts" and look at 2014,
24	consumer spending over the next two years."	24	you'll see it's -26 percent in 2014, -26
25	And I'll stop the discussion there. Now,	25	percent in 2014; -23 percent in 2015; -18.6
	Page 78		Page 80
1	that's what the Conference Board is saying	1	percent in 2016. Come over to the next
2	is the cost. Before I get you to comment, I	2	page, -7.8 percent in 2017; -7.7 percent in
3	want you show you some of the Conference	3	2018; and -7.7 percent in 2019, agreed?
4	Board key economic indicators on the next	4	DR. CLEARY:
5	page. If you can pull that up, Samantha?	5	A. Yes, that's what the numbers say.
6	And we're on the right-hand columns, I don't	6	KELLY, Q.C.:
7	know if you can make it so you can get it	7	Q. Right. Now, what the Conference Board says
8	all on the screen, Samantha, or will make	8	quite unequivocally is the drop in
9	numbers too small? There we go. Now, three	9	unemployment is due to the fact of people
10	lines down we have the GDP at basic prices,	10	losing their jobs and people moving out of
11	that's the real GDP and if we go over to the	11	the labour force, agreed?
12	far-right side, 2014, '15 and '16, there's	12	DR. CLEARY:
13	are real GDP numbers, -2.9 et cetera that we	13	A. I'd have to see the quote.
14	saw on the first page, correct?	14	KELLY, Q.C.:
15 DR. CLEAR	Y:	15	Q. That's the quote we just took you through
16 A.	That's correct.	16	and those are the numbers behind it.
17 KELLY, Q.C	· · ·	17	DR. CLEARY:
18 Q.	Right, now come down to "Employment" which	18	A. Okay.
19	is about, there we go, thank you Samantha.	19	KELLY, Q.C.:
20	If you could come across, you'll see in 2014	20	Q. Can I take you back now to page 15 of your
21	employment dropped 1.9 percent; in 2015, 1.3	21	evidence and can we scroll, bring it down a
22	percent; in 2016, .7 percent and while we're	22	little bit so we get the top bit, Samantha?
23	on unemployment, can you go over to the next	23	There we go. So the sentence at line 13
24	page, Samantha? Employment continues to	24	where you say "Beyond 2017, the Conference
25	drop in 2017,3,5 and finally 0 in	25	Board predicts that the unemployment rate
1	stop in 2017,, und initially 0 in	ı	Doma products that the unemployment late

OR. CLEARY A. KELLY, Q.C. Q.	Well hold on, what I'm saying is correct. I said that the unemployment rate will be declining and secondly, this is the Conference Board forecast from the fall and you're reading to me from one from the summer, upon which my evidence was not based, right, so –	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	It appears that way. Okay, now the next thing I want to talk to you about is your last line which is "The utility sector GDP contribution." And what we're seeing there, just so we're clear, those numbers, just like we looked at for real GDP changes, that's the change in the utility sector contribution to GDP year over year. So in this one, 2015 was up 9.9 percent, but it's 9.9 percent of a much smaller number than the total GDP, correct? I would actually say a smaller number because that 9.9 percent would have been based on a shrinkage of -0.2 percent.
A. KELLY, Q.C.	steadily to around 11 percent by 2020 on the back of 2018, 2020 real GDP growths, et cetera. That's not what the Conference Board is saying at all. The Conference Board is in fact saying that despite those numbers in GDP growth, unemployment will go down, but because people have lost their jobs and people have withdrawn from the labour market, the labour force participation rates goes down. Well hold on, what I'm saying is correct. I said that the unemployment rate will be declining and secondly, this is the Conference Board forecast from the fall and you're reading to me from one from the summer, upon which my evidence was not based, right, so — In fact, I went and looked at the fall one	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DR. CLEARY A. KELLY, Q.C.	It appears that way. Okay, now the next thing I want to talk to you about is your last line which is "The utility sector GDP contribution." And what we're seeing there, just so we're clear, those numbers, just like we looked at for real GDP changes, that's the change in the utility sector contribution to GDP year over year. So in this one, 2015 was up 9.9 percent, but it's 9.9 percent of a much smaller number than the total GDP, correct? I would actually say a smaller number because that 9.9 percent would have been based on a shrinkage of -0.2 percent.
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	based, right, so – : In fact, I went and looked at the fall one	19 20		
	: In fact, I went and looked at the fall one	20	Q.	True but the utility goeter of total CDD is
	In fact, I went and looked at the fall one	1		True, but the utility sector of total GDP is
Q.		l 21		a very small fraction of total GDP for the
	and the Conference Board says the same thing	1		province, we have construction,
	•	22		manufacturing, government sector, et cetera,
	about unemployment and employment rates and	23		utilities' GDP, so when you're looking at
	labour participation rates in the fall one.	24		those numbers, percentage changes on the
OR. CLEARY	7. ·	25		bottom, they might be bigger percentage
	Page 82			Page 84
A.	But my statement has nothing to do with	1		changes, but they are percentage changes of
	labour participation. I mean, my statement	2		a number much small than the total GDP,
	is true, the unemployment rate is forecast	3		agreed?
	to decline. You're trying to qualify what	4	DR. CLEARY	<u> </u>
	the unemployment rate falling means by	5	A.	Well, of course, they're a fraction of GDP
	looking at other factors, that the	6		but the point of this, presenting it, is the
	participation rate –	7		fact that they are more stable than the
KELLY, Q.C		8		overall economy which is also consistent
		1		with the argument that utilities, as a part
Α.		l		of the TSX composite index, for example, are
		1		a small part of it and they would represent
	÷ •	1		the stable part and the mining and the oil
		1		and gas industries and the real estate would
		1		be the more volatile components of those
	ž ž	1		÷
		1	VELLY O.C.	GDP, of that market.
		1		
	•		Q.	Dr. Cleary, what's in the Conference Board's
		1	DD CIEARY	utility sector other than electricity?
		1		
	<u> </u>	1		Primarily electricity.
		1		
		1	Q.	It's water and sewer projects, amongst other
	- ·	1		things.
		24		· ·
		25	A.	And hydro—well, not hydro, Labrador –
	Q.	Q. You say on the back of GDP growth, implying that the GDP growth is going to bring down the unemployment rate. That's not what's bringing down the unemployment rate. In fact, we have declining employment in the province consistently six years out into the future. In fact, scroll up the screen again, Samantha. Bring up his Table 7 on page 15. In fact, if you look at the employment line from the fall data, you'll see it's negative in 2015, negative in 2016, negative in 2017, negative in 2018, a small +1, .1 in 2019 and negative again in 2020, consistent with the data we looked at from the summer forecast. Employment continues to fall, Dr. Cleary, agreed?	that the GDP growth is going to bring down the unemployment rate. That's not what's bringing down the unemployment rate. In fact, we have declining employment in the province consistently six years out into the future. In fact, scroll up the screen again, Samantha. Bring up his Table 7 on page 15. In fact, if you look at the employment line from the fall data, you'll see it's negative in 2015, negative in 2016, negative in 2017, negative in 2018, a small +1, .1 in 2019 and negative again in 2020, consistent with the data we looked at from the summer forecast. Employment continues to fall, Dr. Cleary, agreed?	that the GDP growth is going to bring down the unemployment rate. That's not what's bringing down the unemployment rate. In fact, we have declining employment in the province consistently six years out into the future. In fact, scroll up the screen again, Samantha. Bring up his Table 7 on page 15. In fact, if you look at the employment line from the fall data, you'll see it's negative in 2015, negative in 2016, negative in 2017, negative in 2018, a small +1, .1 in 2019 and negative again in 2020, consistent with the data we looked at from the summer forecast. Employment continues

Aprı	111, 2016				NL Power GRA 2016
		Page 85			Page 87
1	KELLY, Q.C	7	1		itself doesn't fall in this column, but the
2	Q.	And Newfoundland Hydro.	2		additional planning and expenditures that go
3	DR. CLEAR	Y:	3		with it, do. So those are the big drivers
4	A.	Yes.	4		for about 2015, does that sound right to
5	KELLY, Q.C).: .:	5		you?
6	Q.	Now let's just think about this for a	6	DR. CLEARY	-
7		second. It's clear from the evidence that	7	Α.	That sounds consistent.
8		Newfoundland Power is not selling more	8	KELLY, Q.C.	
9		kilowatt hours of energy to customers, so	9	Q.	Right, and if we look out across 2016, '17,
10		9.9 percent in 2015, that's year over year	10	ζ.	'18, we get out to '18, '19 and '20 and the
11		growth in the utility sector, do you have	11		numbers go up. Do you know why those
12		any idea what that is, what the drivers	12		numbers would go up?
13		were?	13	DR. CLEARY	5 1
14	DR. CLEAR		14	A.	I would say that it's a slight increase in
15			15	A.	2018 and '19 and then 2020 is a big
1	A.	Well first of all you said that they're not	ı		•
16		selling any more kilowatt hours, but I heard	16		increase. I guess part of it may have to do
17		testimony here that in fact they are. It's	17	VELLY O.C.	with Muskrat Falls and I'm not quite sure.
18		growing slower, but I thought the number I	18	KELLY, Q.C.	
19	WELLWOO	heard was about 1 percent rate, so –	19	Q.	What does that mean?
20	KELLY, Q.C		20	DR. CLEARY	
21	Q.	That's a historic.	21	A.	The increase in rates or the increase in
22	DR. CLEAR		22		supply costs, I guess.
23	A.	Right, but I think that that was the number	23	KELLY. Q.C.	
24		that was acknowledged over the test period	24	Q.	No, Dr. Cleary with respect it's not. This
25		that it ever expected –	25		is the utility sector contribution to GDP,
⊢		1	Ь—		<u> </u>
		Page 86			Page 88
1	KELLY, Q.C.	Page 86	1		·
	KELLY, Q.C. Q.	Page 86			Page 88
1		Page 86	1		Page 88 so it's measuring real things, isn't it?
1 2		Page 86 : No, no, no, you've misunderstood the	1 2		Page 88 so it's measuring real things, isn't it? What it is is quite simple. It's more
1 2 3		Page 86 : No, no, no, you've misunderstood the evidence. Is that what you took out of it?	1 2 3		Page 88 so it's measuring real things, isn't it? What it is is quite simple. It's more kilowatt hours of energy being produced at
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1 2 3 4 5	Q.	Page 86 : No, no, no, you've misunderstood the evidence. Is that what you took out of it? Then you've misunderstood the evidence. But I just want to stay with my question.	1 2 3 4 5		Page 88 so it's measuring real things, isn't it? What it is is quite simple. It's more kilowatt hours of energy being produced at Muskrat Falls, sold out of the province to Nova Scotia. It's not the rising price, it's the kilowatt hours going out, correct?
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C.	Page 86 No, no, no, you've misunderstood the evidence. Is that what you took out of it? Then you've misunderstood the evidence. But I just want to stay with my question. Sure. Do you know what would drive the utility section 9.9 percent growth in 2015? Sorry, I can't recall right now. You don't know? I did know when I prepared the report and I apologize. I'm going to help you with a couple of things. The City of St. John's brought on a new water treatment plant. The City of Corner Brook brought on a new water	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DR. CLEARY: A. KELLY, Q.C.: Q.	Page 88 so it's measuring real things, isn't it? What it is is quite simple. It's more kilowatt hours of energy being produced at Muskrat Falls, sold out of the province to Nova Scotia. It's not the rising price, it's the kilowatt hours going out, correct? Well that makes sense because I do know that it's a substantial increase in generation, yes. But it's sales outside the province. So when you look at it, this line is driven by a whole bunch of factors, but not by Newfoundland Power's sales, agreed? And in order to put that in perspective, let me take you to the current forecast. Samantha, if we could go to document 4 in the Newfoundland Power material? Sorry, to the Newfoundland Power forecast, which is before that. It's in the same—there you go, go to page 5 at the second paragraph from the top

Apr	il 11, 2016				NL Power GRA 2016
		Page 89			Page 91
1	sales under proposed ra	ites, which include 1	1	DR. CLEARY:	:
2	the elasticity effects of		2	A.	That is correct.
3	percent increase are for	1 1		KELLY, Q.C.:	
4	.6 percent in 2016 and 0	· 1	4		Now, let's go to your report next at page 17
5	Virtually flat, do you se	· 1	5	-	and if we look the quote there, that's a
6	(10:45 a.m.)		6		quote from the Consumer Advocate, not from
7	DR. CLEARY:		7		the Board, isn't it?
8	A. Yes, I do.			DR. CLEARY	· · · · · · · · · · · · · · · · · · ·
	KELLY, Q.C.:	~	o 9		
1					That's correct and I acknowledged that in
10	Q. Right, and that's—let's				response to a RFI.
11	now to page 3 in the las			KELLY, Q.C.:	Di-14 in f4 ND CA 0049
12	last paragraph says, "O			-	Right, in fact, NP-CA-004?
13	economic indicators, su			DR. CLEARY:	
14	gross domestic product	* *			It could be.
15	household disposable in	- 1		KELLY, Q.C.:	
16	starts will be significan	, ,		•	Put it up Samantha? So you confirm that?
17	the forecast, as compar-	· 1		DR. CLEARY	
18	Given Newfoundland P	′ I			Yes, because I do, you know, I describe it
19	energy sales' growth is	· · ·			as such, right above there I say "according
20	by the domestic econor	· · · · · ·			to the Consumer Advocate", so it's not
21	economic indicators."	So it's the ones we 21	1		suggesting it was a Board
22	looked at about the emp	ployment effects, the 22	2	DR. CLEARY:	
23	lower—people losing the	heir jobs, people being 23	3	A.	- vision, I just thought that was a very
24	out of work and the hou	using starts which we 24	4		good synopsis of Newfoundland Power.
25	saw were consistently of	down, which drives 25	5	KELLY, Q.C.:	
		Page 90			Page 92
1	Newfoundland Power's p	· I	1	Q.	So, you took the Consumer Advocate's
2	DR. CLEARY:		2	ζ.	description of Newfoundland Power –
3	A. That's what this report is			DR. CLEARY	-
4	KELLY, Q.C.:		4	A.	I didn't take it. When I was writing up my
5	Q. Right, and this report is t		5	11.	report, I remembered reading it and said,
6	report for the test year, a		6		oh, that's a very good synopsis of the
7	DR. CLEARY:	-	7		things that I've concluded. So, that's why
8	A. Agreed.		8		I used it.
	KELLY, Q.C.:			KELLY, Q.C.:	
10				Q.	Now, can we put that back on the screen,
1	Q. Now, I want to turn next, talk a little bit about busi	• •		Q.	<u> </u>
11 12	maybe the place to start v				Samantha, page 17. There we go. And in
1	, ,	· · ·			that quote, it talks about "yet fairly
13	NP-CA-018 and Samantl				steady customer growth three lines down".
14	to, I think down the next				An as we just saw that's not there anymore,
15	go back for a second, and				is it? We looked at 2017 with 0.1 percent
16	Next page, there we go.			DD CIEARY	for the next year. Agreed?
17	the ratings are set out by	•		DR. CLEARY	
18	for their qualitative and c	^ I		A.	Yes, I would have to, in retrospect, that's
19	factors?	19			one statement that's maybe not as consistent
20	DR. CLEARY:	20			with today.
21	A. Yes, that's correct.	21		KELLY, Q.C.:	
22	KELLY, Q.C.:	22		Q.	Right, that's a change that has occurred as
23	Q. Right, so the qualitative				we look forward out over the test year.
24	essentially 60 percent and	-			Agreed?
25	factors are 40 percent?	25	5	DR. CLEARY	:
23					

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		Page 93			Page 95
1	A.	Yes, agreed.	1	KELLY, Q.C.	:
2	KELLY, Q.C.	_	2	Q.	March 31, Mr. Smith, at page 96, I believe
3	Q.	Now, you heard or I assume you've read Mr.	3		it is.
4		Smith's evidence that a 1 percent drop in	4	DR. CLEARY	
5		sales from the 1 percent to what we'll have	5	A.	I prefer to do as subject to check if that's
6		next year is equivalent to about 2 million	6	21.	fine with you.
7		dollars in operating costs contribution, do	7	KELLY, Q.C.	•
8		you remember that?	8	Q.	We've got it on the screen now. Mr. Smith
	DR. CLEARY	•	9	Q.	says, "I guess what I would say is when you
10	A.	I can't recall that specific figure.	10		have a 1 percent sales growth in terms of
1	KELLY, Q.C.	÷ -	11		revenue into the company that looks like 6.5
11 12			12		÷ •
1	Q.	Okay. Will you take it, subject to checking	ı		million dollars. And, of course,
13		the transcript, I can give you the	13		Newfoundland Power is about a third of the
14	DD CLEADA	transcript reference, March 31, page 96.	14		bill. So, we would get about 2 million
15	DR. CLEARY		15		dollars of that extra revenue coming in to
16	A.	Could you repeat that again?	16		the company. When you're down to .1
17	KELLY, Q.C.		17		percent, obviously the numbers are 10
18	Q.	A 1 percent drop in growth means you don't	18		percent of that. So, instead of an
19		get contribution of—it's worth 2 million	19		additional 2 million dollars, you're down to
20		dollars at the operating level, after you—6	20		something like two hundred thousand into the
21		½ million in total revenue, got to take out	21		company as additional revenue when your
22		the purchase power expense, 2 million	22		sales decline". Accept it now?
23		dollars loss, at the operating level.	23	DR. CLEARY	7.
24	DR. CLEARY	<i>T</i> :	24	A.	Would you mind if I just read this for a
25	A.	Well, I mean if he said it, that's fine. I	25		second, if you could be patient with me.
		,	1 -		, ,
		Page 94			Page 96
1			1	KELLY, Q.C.	Page 96
1 2		Page 94	1 2	KELLY, Q.C. Q.	Page 96
1	KELLY, Q.C.	Page 94 don't know without really, truly thinking about it if that number makes sense to me.	1		Page 96 By all means.
2	KELLY, Q.C.	Page 94 don't know without really, truly thinking about it if that number makes sense to me.	1 2	Q.	Page 96 By all means.
2 3		Page 94 don't know without really, truly thinking about it if that number makes sense to me. Chay, you haven't done that analysis?	1 2 3 4	Q. DR. CLEARY	Page 96 By all means. Thank you. Again, you know, the numbers say
2 3 4	KELLY, Q.C. Q.	Page 94 don't know without really, truly thinking about it if that number makes sense to me. : Okay, you haven't done that analysis?	1 2 3	Q. DR. CLEARY	Page 96 By all means. Thank you. Again, you know, the numbers say what they say, but I would also note that a
2 3 4 5 6	KELLY, Q.C. Q. DR. CLEARY	Page 94 don't know without really, truly thinking about it if that number makes sense to me. Okay, you haven't done that analysis? Well, my analysis shows that if the sales	1 2 3 4 5 6	Q. DR. CLEARY	Page 96 By all means. Thank you. Again, you know, the numbers say what they say, but I would also note that a 1 percent increase, you could flip it over
2 3 4 5 6 7	KELLY, Q.C. Q. DR. CLEARY	Page 94 don't know without really, truly thinking about it if that number makes sense to me. Okay, you haven't done that analysis? Well, my analysis shows that if the sales increase and with a 20 percent or 19 percent	1 2 3 4 5 6 7	Q. DR. CLEARY A.	Page 96 By all means. Thank you. Again, you know, the numbers say what they say, but I would also note that a 1 percent increase, you could flip it over the other way, too.
2 3 4 5 6 7 8	KELLY, Q.C. Q. DR. CLEARY	Page 94 don't know without really, truly thinking about it if that number makes sense to me. Okay, you haven't done that analysis? Well, my analysis shows that if the sales increase and with a 20 percent or 19 percent operating profit margin, then if sales	1 2 3 4 5 6 7 8	Q. DR. CLEARY A. KELLY, Q.C.	Page 96 By all means. Thank you. Again, you know, the numbers say what they say, but I would also note that a 1 percent increase, you could flip it over the other way, too.
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2 3 4 5 6 7 8 9	KELLY, Q.C. Q. DR. CLEARY	Page 94 don't know without really, truly thinking about it if that number makes sense to me. Okay, you haven't done that analysis? Well, my analysis shows that if the sales increase and with a 20 percent or 19 percent operating profit margin, then if sales increase 1 percent, then EBIT would increase about .2 percent, right, sorry, it would be	1 2 3 4 5 6 7 8 9	Q. DR. CLEARY A. KELLY, Q.C.	Page 96 By all means. Thank you. Again, you know, the numbers say what they say, but I would also note that a 1 percent increase, you could flip it over the other way, too. Sure, but that would be a 1 percent increase in the circumstances that we just looked at
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	1 11, 2016		NL Power GRA 2016
	Page 97		Page 99
1	additional revenue to cover the interest on	1	Q. Okay.
2	capital programs until it gets incorporated	2	DR. CLEARY:
3	in rate base at the next GRA. Agree with	3	A. That's always true that if your forecast for
4	those two principles?	4	the test years and you exceed your cost for
1			· · · · · · · · · · · · · · · · · · ·
5	DR. CLEARY:	5	the test years, that you're going to have to
6	A. Not necessarily they would be to the next	6	carry it until it's redone.
7	GRA.	7	KELLY, Q.C.:
8	KELLY, Q.C.:	8	Q. And now we don't have the growth to help
9	Q. Sorry?	9	with that. So, what goes with your package,
10	DR. CLEARY:	10	you see, is okay, we're going to have to
11	A. Not necessarily the next GRA. There would	11	come back more often to address problems.
12	be a lag from the test year in terms of	12	DR. CLEARY:
13	getting passed through the RSA or the	13	A. Sorry, I'm starting to get a little bit
14	capital expenditures. Did you—sorry, the	14	confused here that you're suggesting to me
15	interest on capital expenditures –	15	that now Newfoundland Power cannot forecast
16	KELLY, Q.C.:	16	test years well during a projected decline
17	Q. Interest on capital expenditures because the	17	in revenues or sales.
18	company has to fund the capital	18	KELLY, Q.C.:
19	1 7	19	
1	expenditures, do the work, wait until the	1	Q. You're not following how the regulatory
20	next GRA to get them incorporated into rate	20	process works. Let me try you again. You
21	base. Somebody has got to carry that in the	21	do a forecast.
22	meantime. That's the company where the	22	DR. CLEARY:
23	additional contribution from sales growth	23	A. Right.
24	helps. If you don't have it, you don't have	24	KELLY, Q.C.:
25	it, agreed?	25	Q. So we have –
	Page 98		Page 100
1	DR. CLEARY:	1	DR. CLEARY:
2	A. I would agree that positive sales growth is	2	A. But doesn't that forecast not include a
3	better that negative sales growth.	1 2	
1	octici mai negative sales growm.	1 3	forecast for a decline in -
14		$\begin{vmatrix} 3 \\ 4 \end{vmatrix}$	
$\begin{vmatrix} 4 \\ 5 \end{vmatrix}$	KELLY, Q.C.:	4	KELLY, Q.C.:
5	KELLY, Q.C.: Q. Right and if you have negative sales growth	4 5	KELLY, Q.C.: Q. Right, for 2017.
5 6	KELLY, Q.C.: Q. Right and if you have negative sales growth or no sales growth, it presents challenges	4 5 6	KELLY, Q.C.: Q. Right, for 2017. DR. CLEARY:
5 6 7	KELLY, Q.C.: Q. Right and if you have negative sales growth or no sales growth, it presents challenges because you don't have the extra	4 5 6 7	KELLY, Q.C.: Q. Right, for 2017. DR. CLEARY: A kilowatt hours.
5 6 7 8	KELLY, Q.C.: Q. Right and if you have negative sales growth or no sales growth, it presents challenges because you don't have the extra contribution to cover increased operating	4 5 6 7 8	KELLY, Q.C.: Q. Right, for 2017. DR. CLEARY: A kilowatt hours. KELLY, Q.C.:
5 6 7 8 9	KELLY, Q.C.: Q. Right and if you have negative sales growth or no sales growth, it presents challenges because you don't have the extra contribution to cover increased operating costs and interest costs on capital	4 5 6 7 8 9	KELLY, Q.C.: Q. Right, for 2017. DR. CLEARY: A kilowatt hours. KELLY, Q.C.: Q. For 2017 the forecast is set.
5 6 7 8 9 10	KELLY, Q.C.: Q. Right and if you have negative sales growth or no sales growth, it presents challenges because you don't have the extra contribution to cover increased operating costs and interest costs on capital projects.	4 5 6 7 8 9 10	KELLY, Q.C.: Q. Right, for 2017. DR. CLEARY: A kilowatt hours. KELLY, Q.C.: Q. For 2017 the forecast is set. DR. CLEARY:
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5 6 7 8 9 10 11 12	KELLY, Q.C.: Q. Right and if you have negative sales growth or no sales growth, it presents challenges because you don't have the extra contribution to cover increased operating costs and interest costs on capital projects. DR. CLEARY: A. But those prudently, you know, incurred	4 5 6 7 8 9 10 11 12	KELLY, Q.C.: Q. Right, for 2017. DR. CLEARY: A kilowatt hours. KELLY, Q.C.: Q. For 2017 the forecast is set. DR. CLEARY: A. Right. KELLY, Q.C.:
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		Page 101			Page 103
1	DR. CLEARY	7. 	1	A.	Sorry, but it's a forecast, right.
2	A.	Well, continue to explain to then -	2	KELLY, Q.C.:	
3	KELLY, Q.C.	<u> </u>	3	Q.	Yes.
4	Q.	Okay, no, I –	4	DR. CLEARY	:
5	DR. CLEARY	· · · · · · · · · · · · · · · · · · ·	5	A.	It's not laid in stone. These are economic
6	A.	- why what you're suggesting is not saying	6		forecasts. You can't say they're going to
7		that there's extra risk because they're	7		turn out exactly as planned.
8		going to be able to forecast as well as they	8	KELLY, Q.C.:	* *
9		have in the past. That's what I'm taking	9		Absolutely agreed which is why the risk
10		from this.	10		could turn out to be worse and it could be
11	KELLY, Q.C.		11		forecast as well.
12	Q.	Okay. I'm going to leave –	12	DR. CLEARY	
13	DR. CLEARY		13		And it could turn out to less, and it could
14	A.	I understand that there's forecast risk	14		turn out to be less.
15	11.	involved.	15	KELLY, Q.C.:	
ı	KELLY, Q.C.		16	Q.	Well, the provincial economy would have to
17	Q.	Right.	17	٧٠	have marked improvement from what the
l .	DR. CLEARY	<u> </u>	18		Conference Board says it would be. Let me
19	A.	We can both agree on that, but I don't see	19		take you to another question now. We know,
$\begin{vmatrix} 1 \\ 20 \end{vmatrix}$	A.	the logic why they do a worse job at	20		the Board knows because it has already
21		forecasting than they have over the past 25	21		approved substantial expenditures for
22		years.	22		Newfoundland and Labrador Hydro, 119 million
1	KELLY, Q.C.	•	23		for the gas turbine, 230 million for the 230
24	Q.	It's not a matter of forecast risk.	24		kilovolt line, 77 million for the capital
25	Q.	Forecast risk is another risk, it could be	25		program for 2015 and 184 million for 2016
23			23		
		Page 102	١.		Page 104
		lower. But if you have a three year GRA			capital expenditures; about 600 million in
2		period and it's 2016 and 2017 is the test	2		total.
3		year, then what happens in 2018, if you have	3	DR. CLEARY	
4		no growth and operating expenses have gone	4	A.	That sounds about right, as I recall.
5		up, the company has to swallow it or come in	5	KELLY, Q.C.	
6		for GRA. Are you with me now?	6	Q.	And they're going to flow through to
1	DR. CLEARY		7		customers once Hydro's GRA is dealt with and
8		I'm with you now, but the implication I was	8		these expenditures get dealt with, quite
9		getting was you were suggesting that for	9		apart, from any event, Newfoundland Power's
10		2016 and 2017 –	10	DD 27 = : =	expenditures. Are you aware those effects?
1	KELLY, Q.C.:		11	DR. CLEARY	
12	-	No, no, you misunderstood my question. So,	12	A.	Yes, I would actually like to make a comment
13		you don't have it in 2018 and you don't have	13		on that .6 billion dollar figure that you
14		any addition to cover the interest on your	14		mentioned. They're not all going to occur
15		capital programs going out through 2017,	15		this year. They're going to be spread out
16		2018 until you come back again. Those are	16		through time.
17		the financial risks which go with no growth.	17	KELLY, Q.C.	
18		Do you follow me now?	18	Q.	Agreed.
1	DR. CLEARY		19	DR. CLEARY	
20		Potential risks.	20	A.	And when I look at the forecasts from the
21	KELLY, Q.C.:		21		exhibits provided by Newfoundland Power,
22	Q.	Okay. Well, the potential is because of	22		they're forecasting capital expenditures
23		growth which is an agreed item in the	23		somewhere just over 100 million per year
24		forecast. So, I'll go on.	24		during the test period and that's fairly
25	DR. CLEARY	:	25		consistent with their historical capex, at
		Discoveries Unlimite			28 Page 101 - Page 10

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1	least the information I have available	ole. So,	1 D	R. CLEARY	:
2	lumping the whole 600 million in t	hat one	2	A.	No, I did not.
3	time suggests that this is abnormal	, but	3 K	ELLY, Q.C.:	
4	it's not—you know, the bottom lin	e is the	4	Q.	You did not, okay. And the Liberty Report,
5	annual capital expenditures seem to	o be in	5		amongst other things, pointed out that
6	line with what they have been long	term, at	6		despite the new combustion turbine which was
7	least using the company's forecast.	. '	7		installed and certain capacity agreements
8	KELLY, Q.C.:		8		that were put in place, that generation
9	Q. That 100 million for Newfoundlan	d Power is	9		reserves are very low and the risk of
10	normal, but you're not suggesting,	Dr. 10	0		outages remain high for the 2015 through
11	Cleary, that 600 million for Newfo	undland 1	1		2017 winter seasons, are you aware of that?
12	Hydro is normal, are you?	12	2 D	R. CLEARY	:
13	DR. CLEARY:	13	3	A.	I'm aware of the conclusions of said report,
14	A. No, I'm just saying that it's within-	—spread 14	4		I didn't read the actual report.
15	out—put in context, as spread out	over a 1:	5 K	ELLY, Q.C.:	
16	number of years. It's not an extrer	ne 10	6	Q.	So you know that there continue to be
17	outlier, put it that way.	1'	7		reliability issues even during this test
18	KELLY, Q.C.:	18	8		year period?
19	Q. Those costs have to flow through t	o 19	9 D	R. CLEARY	:
20	consumers before we get to Muskr	at Falls, do 20	0	A.	Yes.
21	we agreed on that much?	2	1 K	ELLY, Q.C.:	
22	DR. CLEARY:	22	2	Q.	Okay, now the next thing I want to turn to
23	A. Yes.	23	3		is the Muskrat Falls' issues, which is you
24	KELLY, Q.C.:	24	4		deal with in your report at page 22 and if
25	Q. Okay. Mr. Chairman, we're at 11:	00.	5		you scroll down, Samantha, there you go, the
	P	age 106			Page 108
1	P CHAIR:	age 106	1]	Page 108 paragraph which begins at line 4 and you, at
1 2			1		•
1 2 3	CHAIR:		•	j	paragraph which begins at line 4 and you, at
1	CHAIR: Q. Okay.		2]	paragraph which begins at line 4 and you, at line 5, you point to Mr. Coyne's comment
3	CHAIR: Q. Okay. (11:00 a.m. – Recess)		2	1	paragraph which begins at line 4 and you, at line 5, you point to Mr. Coyne's comment about potential weather related risks and
3 4	CHAIR: Q. Okay. (11:00 a.m. – Recess) (Resume 11:33 A.M.)	3	2 3 4	Î 3 3	paragraph which begins at line 4 and you, at line 5, you point to Mr. Coyne's comment about potential weather related risks and you say at line 6, "This contradicts
3 4 5	CHAIR: Q. Okay. (11:00 a.m. – Recess) (Resume 11:33 A.M.) CHAIRMAN:	ir. (2 3 4 5] { } {	paragraph which begins at line 4 and you, at line 5, you point to Mr. Coyne's comment about potential weather related risks and you say at line 6, "This contradicts assertions made by Newfoundland and Labrador
3 4 5	CHAIR: Q. Okay. (11:00 a.m. – Recess) (Resume 11:33 A.M.) CHAIRMAN: Q. So, Mr. Kelly, we are back to you, s	ir.	2 3 4 5] 2 8 1	paragraph which begins at line 4 and you, at line 5, you point to Mr. Coyne's comment about potential weather related risks and you say at line 6, "This contradicts assertions made by Newfoundland and Labrador Hydro in response to CA-NLH-115 from the
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	of the hundreds that have filed in relation	1		information as a regulatory board about the
	to the outage inquiry?	2		risks associated with system reliability
DR. CLEARY	· · · · · · · · · · · · · · · · · · ·	3		than I take it you have, which is why you
A.	Well, the conclusion is that it's currently	4		made the assumption of just nothing,
	•	5		correct?
		6	DR. CLEARY	
		7	Α.	The status quo.
		8		÷
	*	9		You assumed, not a status quo because we
	•	l		know that the current status quo has
		ı		unreliability associated with the problems
		ı		from 2013, '14, '15. You actually assumed a
		ı		status quo back to 2012, 2013, didn't you?
KELLY O.C.	÷	ı	DR CLEARY	
		ı		Well actually let's back track a little bit
٧.		l	71.	here. I'm assuming that there's no
DR CLEARY	•	ı		reliability, no increase in reliability
		ı		issues.
	- · · · · · · · · · · · · · · · · · · ·	ı	KELLY O.C.	
		ı		Since the last GRA.
Q.	•	ı	Ψ.	
DR CLEARY	•	ı		Yes.
		ı		
A.		ı		. And that would be a time before Dark NL and
	•		Q.	all these other expenses, so you're
	-	23		* *
WELLW 0.0	_	١.		Page 112
		l		assuming, not the existing status quo today,
Q.	•			you're assuming the status quo back in 2012
		l	a	before the last GRA, correct?
		'		
	•			Yeah, I guess you could say that.
	•	'		
	·	l	Q.	Yeah, okay. Now, I take it you're aware of
		l		"Murphy's Law", what can go wrong will go
	·			wrong and its corollary that when it goes
	*	ı		wrong, it will go wrong at the worst
	· · · · · ·	ı		possible time?
		ı		
		ı		O'Brien's Law, Murphy was an optimist.
		ı		
A.	-	ı	Q.	There you go. Now, that's always a problem
	evidence, one side is arguing it will	16		in the electrical system and did you look at
	increase; then there's evidence to say it	17		Mr. Smith's evidence of what will happen
	will decrease. Then I think the logical	18		when Muskrat Falls comes on line if the
	assumption is to assume it's the same until	19		Labrador Link goes down, from this hearing?
	you get evidence to tell you to revise your	20	DR. CLEARY	7 :
	beliefs.	21	A.	I read it and I can't remember exactly the
	ocheis.			TC
KELLY, Q.C.		22		passage. If you want to refer to the
KELLY, Q.C. Q.				passage. If you want to refer to the passage?
	:	22	KELLY, Q.C.	passage?
-	A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A.	DR. CLEARY: A. Well, the conclusion is that it's currently under study and that no definitive answer has arisen, which has been acknowledged by Mr. Coyne and so what else can I go on. If it had been decided, then that would be a different matter, but if it's currently under study and there's no definitive answer, how can I comment as to whether it will be increased or decreased as that one RFI responds to. KELLY, Q.C.: Q. I'm going to ask the question again which is did you look only at the one RFI? DR. CLEARY: A. With respect to this issue, yes. KELLY, Q.C.: Q. And I take it Mr. Johnson provided that to you? DR. CLEARY: A. I think it was brought into evidence and I read it when I read Mr. Coyne's response, right. KELLY, Q.C.: Q. Okay, now can I take you next to NP-CA-10 and this is the RFI that asks about Muskrat Falls and if I take you down to line 13, you say "Since the matter is currently under review, Dr. Cleary has no way of knowing whether supply risk has increased, decreased or stayed the same; therefore, Dr. Cleary assumes that supply risk has not increased, at least not in any material way." So I take it your report is predicated on an assumption which you've made that supply risk will not increase? DR. CLEARY: A. Based on the evidence given that the evidence, one side is arguing it will increase; then there's evidence to say it	DR. CLEARY: A. Well, the conclusion is that it's currently under study and that no definitive answer has arisen, which has been acknowledged by Mr. Coyne and so what else can I go on. If it had been decided, then that would be a different matter, but if it's currently under study and there's no definitive answer, how can I comment as to whether it will be increased or decreased as that one RFI responds to. KELLY, Q.C.: Q. I'm going to ask the question again which is did you look only at the one RFI? DR. CLEARY: A. With respect to this issue, yes. KELLY, Q.C.: Q. And I take it Mr. Johnson provided that to you? DR. CLEARY: A. I think it was brought into evidence and I read it when I read Mr. Coyne's response, right. Page 110 KELLY, Q.C.: Q. Okay, now can I take you next to NP-CA-10 and this is the RFI that asks about Muskrat Falls and if I take you down to line 13, you say "Since the matter is currently under review, Dr. Cleary has no way of knowing whether supply risk has increased, decreased or stayed the same; therefore, Dr. Cleary assumes that supply risk has not increased, at least not in any material way." So I take it your report is predicated on an assumption which you've made that supply risk will not increase? DR. CLEARY: A. Based on the evidence given that the evidence, one side is arguing it will increase; then there's evidence to say it	DR. CLEARY: A. Well, the conclusion is that it's currently under study and that no definitive answer has arisen, which has been acknowledged by Mr. Coyne and so what else can I go on. If it had been decided, then that would be a different matter, but if it's currently under study and there's no definitive answer, how can I comment as to whether it will be increased or decreased as that one RFI responds to. KELLY, Q.C.: Q. I'm going to ask the question again which is did you look only at the one RFI? DR. CLEARY: A. With respect to this issue, yes. KELLY, Q.C.: Q. And I take it Mr. Johnson provided that to you? DR. CLEARY: A. I think it was brought into evidence and I read it when I read Mr. Coyne's response, right. Page 110 KELLY, Q.C.: Q. Okay, now can I take you next to NP-CA-10 and this is the RFI that asks about Muskrat Falls and if I take you down to line 13, you say "Since the matter is currently under review, Dr. Cleary has no way of knowing whether supply risk has not increased, erreive, Dr. Cleary assumes that supply risk has not increased, at least not in any material way." So I take it your report is predicated on an assumption which you've made that supply risk will not increase? DR. CLEARY: A. Based on the evidence given that the evidence, one side is arguing it will increase; then there's evidence to say it

April 11, 2016 NL Power GRA 2016 Page 113 Page 115 want to see the transcript, I'll take you A. Some from Nova Scotia, I would assume. 1 1 2 there. We have currently, these are round KELLY, Q.C.: 3 numbers, approximately 2000 megawatts of 3 Q. No, no, but that's already built into it. 4 capacity on the island now. 500 is Holyrood 4 Even with that, we're going to be several 5 which will be replaced by Muskrat Falls. If 5 hundred megawatts short for a stable system the line goes down, we'll lose that 500 and and I expect the answer is you don't know 6 6 7 7 we'll get, if it's available, 300 back from because we don't know. My next question 8 Nova Scotia, giving us 1800 megawatts which 8 would be, okay, and who is going to pay to 9 is the equivalent of the peak load on the 9 put that generating capacity in existence to 10 island now, round figures. 10 have a stable system going forward? DR. CLEARY: DR. CLEARY: 11 12 Yes, I recall that conversation. 12 Α. And again, this is all based on Murphy's Α. 13 KELLY, Q.C.: 13 Law, right? 14 Q. Do you remember that discussion? 14 KELLY, Q.C.: 15 DR. CLEARY: 15 No, no, you have to have the spinning Q. 16 Α Yes 16 reserve, that's absolutely required and you 17 KELLY, Q.C.: 17 can't assume every -18 18 DR. CLEARY: 0. Now there's a couple of problems with that. 19 Number one is you cannot run an electrical 19 A. Right, but this whole scenario you're 20 20 presenting to me is based on Murphy's Law system like that, you have to have a 21 spinning reserve. Do you know anything 21 basically, right? 22 about that? KELLY, O.C.: 23 23 DR. CLEARY: Q. No, sir, about half of it is based on 24 24 Murphy's Law and half is based on the A. I understand that that's why you would want 25 25 to have some generation so you have a requirement of a spinning reserve which you Page 114 Page 116 need on the system. And so my first 1 reserve. 1 2 KELLY, Q.C.: question was how is it going to happen? You 3 You have to have a reserve beyond that. 3 don't have an answer and we don't have an 0. DR. CLEARY: 4 answer. Who is going to pay for it? You 5 5 don't have an answer, we don't have an A. Right. KELLY, Q.C.: 6 6 answer but somebody is going to have to put 7 Q. And right now, that's about 15, 16 percent 7 it, there's more cost that has to come to 8 requirement, but let's just keep the math 8 deal with that reliability question, agreed? 9 simple and call it 200 megawatts and let's 9 DR. CLEARY: 10 take our Dark NL experience. As Mr. Smith 10 But again this is based on the assumption of A. Murphy's Law that there is going to be such 11 explained, those numbers assume every piece 11 12 of generating equipment runs at its optimal 12 a—such an event would happen, right? 13 performance and in Dark NL, we've got ice in 13 KELLY, Q.C.: 14 the Exploit's River which dammed up a 14 Q. Oh, if you read all the RFIs, as Mr. Smith 15 penstock, 50 megawatts gone. Stephenville 15 explained, Hydro says in essence that if gas turbine didn't work, 50 megawatts gone. they lose the line, it could take two weeks 16 16 17 An axial vibration on another generating 17 to restore it and lines go down, that's just 18 plant took out another 32 megawatts, so 132 18 one of the basic issues. So there's no 19 19 megawatts gone just right there. So on any determination as to who is going to provide 20 sort of analysis we are several hundred 20 that sort of emergency generation. One 21 megawatts short of what you would need to 21 option is Hydro might have to provide it; 22 keep the system stable if Muskrat Falls goes 22 another option is Newfoundland Power might 23 down. Now, do you have any idea where 23 have to provide it which would require a

24

25

24

25 DR. CLEARY:

that's going to come from?

significant investment in the system,

agreed?

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	Page 117		Page 119
1	DR. CLEARY:	1	get handled, don't we, we have to think
2	A. If that happened.	2	about that problem. And if I take you, we
3	KELLY, Q.C.:	$\frac{1}{3}$	still have the RFI up on the screen, if I
4	Q. If the Board concluded that that is	4	take you over to page 2 of your answer to
5	necessary to deal with the contingencies and	5	lines 4 to 10.
Ι.	the spinning reserve requirements, somebody	1	DR. CLEARY:
$\begin{vmatrix} 6 \\ 7 \end{vmatrix}$		7	
7	would have to invest more money in the		A. Yes.
8	system?	8	KELLY, Q.C.:
9	DR. CLEARY:	9	Q. Where you say, "So in other words, if NP's
10	A. If they do come to that conclusion.	10	supply cost increase, it can pass on these
11	KELLY, Q.C.:	11	increased costs to consumers through rates
12	Q. The Board would be in the best position to	12	charged, as is usual for cost of service
13	assess the risk and need for those	13	arrangements and if the increase was not
14	expenditures, agreed?	14	anticipated, i.e. in the test year
15	DR. CLEARY:	15	estimates, NP would be able to pass on such
16	A. I would agree.	16	unexpected cost increases to consumers
17	(11:45 a.m.)	17	through the RSA; therefore, it is not clear
18	KELLY, Q.C.:	18	to Dr. Cleary what increased risk this poses
19	Q. Okay, now that problem that we just talked	19	to NP. In essence, the risk is to the
20	about doesn't include the risks associated	20	consumer who would pay higher rates but not
21	with the fact that the load is here in St.	21	to NP since NP can pass these additional
22	John's and all of the lines coming into St.	22	costs through to consumers." So that
23	John's have to go through a really narrow	23	assumes that the consumers have the ability
24	corridor on the isthmus of Avalon which is	24	to pay, doesn't it?
25	subject to severe icing problems. Do you	25	DR. CLEARY:
	Page 118	1	Page 120
1	have any sense of the problem associated	1	A. Yes, as I said, the risk is to the
2	with lines on the isthmus?	2	consumers.
$\frac{1}{3}$	DR. CLEARY:	$\frac{1}{3}$	KELLY, Q.C.:
$\frac{3}{4}$	A. Yes.	$\frac{1}{4}$	
1		1 '	· · · · · · · · · · · · · · · · · · ·
5	KELLY, Q.C.:	5	the consumers that we just looked at earlier
$\begin{vmatrix} 6 \\ 7 \end{vmatrix}$	Q. Okay, and are you familiar enough with what	$\begin{vmatrix} 6 \\ 7 \end{vmatrix}$	in my discussion before the break in the
7	would happen if one or more of the—if the DC	1	Conference Board report where we have
8	line and the AC lines go down on the	8	decreasing employment levels, decreasing
9	isthmus?	9	labour participation rates, declining
10	DR. CLEARY:	10	housing starts and negligible growth in
11	A. It would not be good.	11	household income. We went through all of
12	KELLY, Q.C.:	12	that, those are the consumers we'd be
13	Q. It would make Dark NL look like a comfort	13	talking about?
14	area because the amount of generation on the	14	DR. CLEARY:
15	Avalon is very small, creating a rea	15	A. Yes, unfortunately, but again the risk is to
16	problem. So the Board has to figure out how	16	them and Newfoundland Power would be able to
17	that's going to get addressed and who is	17	pass legitimately incurred costs on.
18	going to spend money, potentially, to	18	KELLY, Q.C.:
19	address that problem, agreed?	19	Q. Assuming that they have the ability to pay.
20	DR. CLEARY:	20	DR. CLEARY:
21	A. Agreed.	21	A. Yes.
22	KELLY, Q.C.:	22	KELLY, Q.C.:
23	Q. Now, the next thing we have to think about	23	Q. In other words, do you understand how that
24	is the 9-billion-dollar cost of the Muskrat	24	process is going to work?
		1	1 C C
25	Falls project itself and how that's going to	25	DR. CLEARY:

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		Page 121			Page 123
1	A.	I do understand that one of the last things	1	Q.	But we didn't have those increases in the
2		that you're going to stop paying is your	2		cost of electricity back in the 1990s, this
3		power bill, even under tough times and I do	3		is a new problem that we are trying to deal
4		agree with, obviously it's not a good	4		with, isn't it?
5		outlook for the consumers if they face	5	DR. CLEARY	· ·
6		rising rates at a time when the economy is	6	A.	I agree, but again as noted unfortunately
7		not growing strong.	7	12.	you don't have a lot of alternatives and
8	KELLY, Q.C.		8		also if you look at, for example Dr. Booth's
	Q.	But do you understand how the purchase power	9		evidence which showed the average monthly
10	Q.	agreements are going to flow costs through?	10		electricity bill, the Newfoundland, you
11		Do you understand how that mechanism is	11		know, they're lower. It still doesn't mean
12		going to work?	12		that a 50 percent increase isn't a big event
13	DR. CLEARY		13		and obviously a negative event for the
1	A.	Not all the intricate details but I know	14		, ,
14	A.		l		consumers, but it also doesn't suggest that
15	VELLY O.C.	that they get passed through.	15		they have a lot of options in terms of
16	KELLY, Q.C.		16		switching when your switching costs are 10
17	Q.	When in fact we don't know how it's all	17		to 20,000 to switch to alternate sources and
18		going to work, there's a lot that's got to	18		you're going to need some electricity
19		get worked out in how this is going to work,	19		regardless.
20		which is what creates the uncertainty, so I	20	KELLY, Q.C.:	
21		don't expect you to know because we don't	21	Q.	Let me take you to page 2 of the forecast
22		know.	22		document, which is the document at Tab 4
23	DR. CLEARY		23		again and if I take you over to, sorry, page
24	A.	But again, I would say that the evidence	24		4, top paragraph and you see about four
25		suggests that it has worked very well in the	25		lines down, five lines down—three lines
		Page 122			Page 124
1		past, contrary to, you know, I'm sure that	1		down, "a one percent change in the price of
2		there's been tough times before and my	2		elasticity will result in a change in energy
3		evidence suggests there will be tough times	3		sales of less than one percent. Current
4		again and that's just the nature of the	4		analysis indicates that a one percent
5		economy, but the evidence shows that they	5		increase in the price of electricity will
6		have been able to do so in the past.	6		result in a .2 percent decrease in energy
7	KELLY, Q.C		7		sales." That's the elasticity effect, do
8	Q.	Now these increase in electricity rates are	8		you remember that from Economics?
9		forecast kind of at a minimum to be about 50	9	DR. CLEARY	·
10		percent. Some of the rates were currently,	10	A.	Yes, I do.
11		a little under 11 cents a kilowatt hour,	11	KELLY, Q.C.	•
12		some of the rates go out as high as 21 cents	12	Q.	Right, and that's the evidence on the
13		a kilowatt hour, some of the projections	13	ζ.	elasticity effects. So if we had a 50
14		which would be like an 80 percent increase	14		percent increase, that would be a 10 percent
15		in rates, that's a huge increase in the cost	15		decrease in sales, wouldn't it?
16		of electricity, agreed?	16	DR. CLEARY	·
17	DR. CLEAR		17	A.	That's correct.
18	A.	It's a big increase.	18	KELLY, Q.C.	
19	KELLY, Q.C	•	19	Q.	Right. And that would be a huge drop in
20	Q.	And we didn't have those kinds of increases	20	Q.	sales, wouldn't it?
21	Ų.	back in the cod moratorium days, did we?	20 21	DR. CLEARY	•
$\begin{vmatrix} 21\\22\end{vmatrix}$	DR. CLEAR	The state of the s	22	DR. CLEAR I A.	If, again, this is an estimate. If this
			ı	A.	- · ·
23	A.	No, but at the time it was the oil prices,	23		estimate is correct, that would in fact turn
24	NELLY OC	the relative cost, right.	24	VELLY OC	out to be a large drop in sales.
	KELLY, Q.C	···	25	KELLY, Q.C.	

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		Page 125			Page 127
1	Q.	And so one of the problems is that we're	1		coming forward. Do you not agree with that
2		really in unchartered territory, because the	2		proposition as a matter of both good
3		potential price increase is so big that	3		financial management, first of all?
4		nobody knows how people are going to react	4	DR. CLEARY	•
5		to the circumstances, do they? Would you	5	A.	I would agree that you would want to have an
6		agree with that statement?	6		appropriate capital structure that would put
7	DR. CLEARY		7		you in position to deal with that situation,
8	A.	I would say that's a pretty broad statement	8		and my recommendation is that 40 percent
9	11.	to say "nobody knows how they are going to	9		still puts you in a very good position to
10		react". Of course, you never know exactly,	10		deal with that situation.
11		but you can suggest that -	11	KELLY, Q.C.	
12	KELLY, Q.C.		12	Q.	Now when you say that, do you have any idea
13		Sales will go down?	13	Q.	of what type of dollars would be needed to
14	Q. DR. CLEARY		13		invest in the electrical system if
1					•
15	A.	Sales would go down. By how much is hard to	15		Newfoundland Power was required to put up
16	VELLY O.C.	predict.	16		the money to deal with the generation issues
17	KELLY, Q.C.		17	DD CLEADY	that we just talked about?
18	Q.	So on the one hand, you can't therefore	18	DR. CLEARY	
19		assume that consumers will continue to buy	19	A.	I don't know the specific number, no.
20		all the electricity, which is the thesis	20	KELLY, Q.C.	
21		that you stated in NP-CA-10, can you? In	21	Q.	No, you wouldn't, so you can't therefore
22		other words, you can't have it both ways.	22		make the statement that 40 percent will be
23		You can't say I'm going to ignore what we	23		sufficient because you don't know how much
24		know about the elasticity effects now	24		would be required to invest to deal with the
25		because it's uncertain, and at the same time	25		problems, sir?
		Page 126			Page 128
					e
1		turn around and say, I can pass through all	1	DR. CLEARY	•
1 2		turn around and say, I can pass through all of these increases with complete impunity	1 2	DR. CLEARY A.	T: I disagree with that, 40 percent would be in
		* * * * * * * * * * * * * * * * * * * *	1 2 3		<i>7</i> :
2		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you?			T: I disagree with that, 40 percent would be in
2 3	DR. CLEARY	of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you?	3		I disagree with that, 40 percent would be in line with other Canadian regulated
2 3 4	DR. CLEARY	of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you?	3 4		I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's
2 3 4 5		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y:	3 4 5		I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38
2 3 4 5 6		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both	3 4 5 6		I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine
2 3 4 5 6 7		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both ways. I suggested that they can pass through	3 4 5 6 7		I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine and they have worse metrics and lower ROEs
2 3 4 5 6 7 8		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both ways. I suggested that they can pass through these costs, and the other thing I would	3 4 5 6 7 8		I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine and they have worse metrics and lower ROEs than Newfoundland Power. So I think that
2 3 4 5 6 7 8 9		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both ways. I suggested that they can pass through these costs, and the other thing I would note is that those increases are not going	3 4 5 6 7 8 9		I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine and they have worse metrics and lower ROEs than Newfoundland Power. So I think that the conclusion that you need 45 percent to
2 3 4 5 6 7 8 9 10		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both ways. I suggested that they can pass through these costs, and the other thing I would note is that those increases are not going to happen during the test period. So to	3 4 5 6 7 8 9 10		I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine and they have worse metrics and lower ROEs than Newfoundland Power. So I think that the conclusion that you need 45 percent to deal with this, it's not apparent to me that
2 3 4 5 6 7 8 9 10		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both ways. I suggested that they can pass through these costs, and the other thing I would note is that those increases are not going to happen during the test period. So to argue that you need increased rates today to	3 4 5 6 7 8 9 10 11		I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine and they have worse metrics and lower ROEs than Newfoundland Power. So I think that the conclusion that you need 45 percent to deal with this, it's not apparent to me that 45 percent is "the" number. I think 40
2 3 4 5 6 7 8 9 10 11 12		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both ways. I suggested that they can pass through these costs, and the other thing I would note is that those increases are not going to happen during the test period. So to argue that you need increased rates today to compensate for that situation and – that would not be good, but also you can't assume	3 4 5 6 7 8 9 10 11 12		I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine and they have worse metrics and lower ROEs than Newfoundland Power. So I think that the conclusion that you need 45 percent to deal with this, it's not apparent to me that 45 percent is "the" number. I think 40 percent is an adequate, ample, slack to deal with situations like that.
2 3 4 5 6 7 8 9 10 11 12 13		of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both ways. I suggested that they can pass through these costs, and the other thing I would note is that those increases are not going to happen during the test period. So to argue that you need increased rates today to compensate for that situation and – that would not be good, but also you can't assume that sales are going to decrease by .2	3 4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C.	I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine and they have worse metrics and lower ROEs than Newfoundland Power. So I think that the conclusion that you need 45 percent to deal with this, it's not apparent to me that 45 percent is "the" number. I think 40 percent is an adequate, ample, slack to deal with situations like that.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	A.	of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both ways. I suggested that they can pass through these costs, and the other thing I would note is that those increases are not going to happen during the test period. So to argue that you need increased rates today to compensate for that situation and – that would not be good, but also you can't assume that sales are going to decrease by .2 percent for each 1 percent increase in the rates.	3 4 5 6 7 8 9 10 11 12 13 14 15	A. KELLY, Q.C.	I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine and they have worse metrics and lower ROEs than Newfoundland Power. So I think that the conclusion that you need 45 percent to deal with this, it's not apparent to me that 45 percent is "the" number. I think 40 percent is an adequate, ample, slack to deal with situations like that. Do you know of any utility in Canada or North America facing the kind of addition to
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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. KELLY, Q.C	of these increases with complete impunity because rate payers have the ability to pay? You can't have it both ways, can you? Y: I don't think I was trying to have it both ways. I suggested that they can pass through these costs, and the other thing I would note is that those increases are not going to happen during the test period. So to argue that you need increased rates today to compensate for that situation and – that would not be good, but also you can't assume that sales are going to decrease by .2 percent for each 1 percent increase in the rates. :: But all we're saying – you're addressing capital structure. All we're saying is given the uncertainties, given the fact that we know investments are going to be needed in the electrical system, we're saying you	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C.	I disagree with that, 40 percent would be in line with other Canadian regulated utilities. They also face risks, and that's more than a buffer when you consider that 38 percent Quebec and Alberta, and they're fine and they have worse metrics and lower ROEs than Newfoundland Power. So I think that the conclusion that you need 45 percent to deal with this, it's not apparent to me that 45 percent is "the" number. I think 40 percent is an adequate, ample, slack to deal with situations like that. Do you know of any utility in Canada or North America facing the kind of addition to the system rate base as will come from the Muskrat Falls addition? The control of the control of the system rate base as will come from the Muskrat Falls addition? Not relatively speaking. No, okay. Now let me take you back to NP-

Apri	il 11, 2016				NL Power GRA 2016
		Page 129			Page 131
1		of page 3, you say, "In short, the statement	1		risk, will it not, the price impacts?
2		by Moody's is in all likelihood based on	2	DR. CLEARY	·:
3		their discussions with NP". Do you have any	3	A.	The price impacts will be permanent. If
4		basis to conclude that Moody's didn't do	4		there's any other issues with respect to
5		their own independent assessment of the	5		additional risk, we can't say for sure that
6		risks associated with Muskrat Falls?	6		there will be an increase in the additional
7	DR. CLEARY		7		risk.
8	A.	I have no specific evidence to suggest that,	8	(12:00 p.m.)	TIOK.
9	11.	but I do know how debt rating agencies work,	9	KELLY, Q.C.	
10		and a lot of what they do is based on	10	Q.	Dr. Cleary, Dr. Booth kind of said "the
11		consultations with the companies who they	11	ζ.	elephant in the room was interest rates, but
12		pay for their ratings.	12		the elephant in this room is really Muskrat
13	KELLY, Q.C.	• •	13		Falls", isn't it, and we've had a very
14		And do you not agree that a company like	14		spirited debate in this province about the
1	Q.		ı		*
15	DR. CLEARY	Moody's does its own independent assessment?	15		colour of the elephant. There are those who
16			16		say we really need Muskrat Falls because
17	A.	I would agree that they do some independent	17		Holyrood is falling down and worn out, and
18		assessment, but they also do rely heavily on	18		there are those who say, gee, the cost of it
19		statements from the companies, and we saw	19		is going to be prohibitively expensive, but
20		that in Enron, which was discussed, for	20		the one – there are two things that
21		example.	21		everybody agrees on. Number one is Muskrat
22	KELLY, Q.C.		22		Falls costs are coming, and number two, it's
23	Q.	Now can I take you back to page 19 of your	23		a big elephant. Do you agree with that?
24		report for a minute, because you made the	24	DR. CLEARY	
25		observation a couple of times about what	25	A.	I'd agree that the costs are coming.
		*			
		Page 130			Page 132
1		*	1	KELLY, Q.C.	
1 2		Page 130	1 2	KELLY, Q.C. Q.	
		Page 130 risk occurs in the test year period, et	1 2 3		: And they're big.
2		Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make	l	Q.	: And they're big.
2 3		Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low	3	Q. DR. CLEARY	: And they're big. ':
2 3 4		Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low risk business model, a company with strong	3 4	Q. DR. CLEARY	And they're big. I don't know what you mean by "big elephant".
2 3 4 5		Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low risk business model, a company with strong regulatory support, there is no obvious reason that a weak economy represents a	3 4 5	Q. DR. CLEARY A. KELLY, Q.C.	And they're big. I don't know what you mean by "big elephant".
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2 3 4 5 6 7 8	DR. CLEAR	Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low risk business model, a company with strong regulatory support, there is no obvious reason that a weak economy represents a significant increase in permanent business risk for NP". Why do you use the word "permanent"?	3 4 5 6 7 8	Q. DR. CLEARY A. KELLY, Q.C. Q.	And they're big. I don't know what you mean by "big elephant". Well, 9 billion dollars is a big number relative to our systems?
2 3 4 5 6 7 8 9	DR. CLEAR A.	Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low risk business model, a company with strong regulatory support, there is no obvious reason that a weak economy represents a significant increase in permanent business risk for NP". Why do you use the word "permanent"?	3 4 5 6 7 8 9	Q. DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY	And they're big. I don't know what you mean by "big elephant". Well, 9 billion dollars is a big number relative to our systems? It's a big number.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. KELLY, Q.C Q.	Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low risk business model, a company with strong regulatory support, there is no obvious reason that a weak economy represents a significant increase in permanent business risk for NP". Why do you use the word "permanent"? Y: Because the economic conditions are not permanent. It's definitely not a positive economic outlook, but - As we saw, those deteriorated economic conditions will extend way out to 2020 because we went through that earlier, but Muskrat Falls, which is a fixed cost which is going to come into the system, will go on far, far into the future, won't it?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And they're big. I don't know what you mean by "big elephant". Well, 9 billion dollars is a big number relative to our systems? It's a big number. And what we've got to be doing now is we've got to be focused on getting ready for those challenges. We got to have the operational things right, and we only got three years to do it, and we have to have the financial strength to deal with the challenges which are coming, and as a finance professor, do you not agree that we need to position now to be ready for those challenges?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. KELLY, Q.C Q. DR. CLEAR	Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low risk business model, a company with strong regulatory support, there is no obvious reason that a weak economy represents a significant increase in permanent business risk for NP". Why do you use the word "permanent"? Y: Because the economic conditions are not permanent. It's definitely not a positive economic outlook, but - C: As we saw, those deteriorated economic conditions will extend way out to 2020 because we went through that earlier, but Muskrat Falls, which is a fixed cost which is going to come into the system, will go on far, far into the future, won't it? Y:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And they're big. I don't know what you mean by "big elephant". Well, 9 billion dollars is a big number relative to our systems? It's a big number. And what we've got to be doing now is we've got to be focused on getting ready for those challenges. We got to have the operational things right, and we only got three years to do it, and we have to have the financial strength to deal with the challenges which are coming, and as a finance professor, do you not agree that we need to position now to be ready for those challenges?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. KELLY, Q.C Q. DR. CLEAR A.	Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low risk business model, a company with strong regulatory support, there is no obvious reason that a weak economy represents a significant increase in permanent business risk for NP". Why do you use the word "permanent"? Y: Because the economic conditions are not permanent. It's definitely not a positive economic outlook, but - C: As we saw, those deteriorated economic conditions will extend way out to 2020 because we went through that earlier, but Muskrat Falls, which is a fixed cost which is going to come into the system, will go on far, far into the future, won't it? Y: Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And they're big. I don't know what you mean by "big elephant". Well, 9 billion dollars is a big number relative to our systems? It's a big number. And what we've got to be doing now is we've got to be focused on getting ready for those challenges. We got to have the operational things right, and we only got three years to do it, and we have to have the financial strength to deal with the challenges which are coming, and as a finance professor, do you not agree that we need to position now to be ready for those challenges? As a finance professor, I think they're very
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. KELLY, Q.O. Q. DR. CLEAR A. KELLY, Q.O.	Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low risk business model, a company with strong regulatory support, there is no obvious reason that a weak economy represents a significant increase in permanent business risk for NP". Why do you use the word "permanent"? Y: Because the economic conditions are not permanent. It's definitely not a positive economic outlook, but - As we saw, those deteriorated economic conditions will extend way out to 2020 because we went through that earlier, but Muskrat Falls, which is a fixed cost which is going to come into the system, will go on far, far into the future, won't it? Y: Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And they're big. I don't know what you mean by "big elephant". Well, 9 billion dollars is a big number relative to our systems? It's a big number. And what we've got to be doing now is we've got to be focused on getting ready for those challenges. We got to have the operational things right, and we only got three years to do it, and we have to have the financial strength to deal with the challenges which are coming, and as a finance professor, do you not agree that we need to position now to be ready for those challenges? As a finance professor, I think they're very well positioned now, and they would be very
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. KELLY, Q.C Q. DR. CLEAR A.	Page 130 risk occurs in the test year period, et cetera, and at page 19, line 15, you make this observation, "Further, given its low risk business model, a company with strong regulatory support, there is no obvious reason that a weak economy represents a significant increase in permanent business risk for NP". Why do you use the word "permanent"? Y: Because the economic conditions are not permanent. It's definitely not a positive economic outlook, but - C: As we saw, those deteriorated economic conditions will extend way out to 2020 because we went through that earlier, but Muskrat Falls, which is a fixed cost which is going to come into the system, will go on far, far into the future, won't it? Y: Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. CLEARY A. KELLY, Q.C. Q. DR. CLEARY A. KELLY, Q.C. Q.	And they're big. I don't know what you mean by "big elephant". Well, 9 billion dollars is a big number relative to our systems? It's a big number. And what we've got to be doing now is we've got to be focused on getting ready for those challenges. We got to have the operational things right, and we only got three years to do it, and we have to have the financial strength to deal with the challenges which are coming, and as a finance professor, do you not agree that we need to position now to be ready for those challenges? As a finance professor, I think they're very

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1	KELLY, Q.C.	:	1	KELLY, Q.C.	:
2	Q.	But you don't have any of the understanding	2	Q.	So it's based on the premise that the future
3		of the numbers that justify that conclusion.	3		will look like the past?
4		We talked about that a few minutes ago. I	4	DR. CLEARY	*
5		want to shift gears a little bit now and	5	A.	Not exactly, but that the past gives you
6		talk about the quantitative assessment that	6	11.	some indication of what the future will look
7		you've done. First of all, on the fair	7		like, yes.
8		return standard, credit metrics or	8	KELLY, Q.C.	•
9		creditworthiness is only one of the three	9	Q.	Now can I take you to NP-CA-14, and the
10		factors. Do we agree on that?	10	ζ.	question that you were asked in this one is,
11	DR. CLEARY	•	11		"Were you aware of any Canadian or U.S.
12	A.	Definitely.	12		utility regulators that have used this
13	KELLY, Q.C.	•	13		measure of EBIT volatility to determine a
14	Q.	We also need to have comparable returns and	14		utility's equity ratio", and your answer at
15	Q.		15		line 6 is, "To the best of Dr. Cleary's
1		capital attraction, the ability to bring in			-
16	DR. CLEARY	capital?	16 17		knowledge, his measure of EBIT volatility
17			18		have not been used in recent regulatory
18	A.	Yes.			hearings in Canada, nor is he aware of any
19	KELLY, Q.C.		19		proceedings that rejected the use of such".
20	Q.	Right, and capital attraction with the	20		So you're not aware of any regulator which
21		issues that we've just talked about will be	21		has used this approach to determine
22		an important factor because we may need	22		creditworthiness or business risk?
23	DD GLEADI	money for various things, agreed?	23	DR. CLEARY	
24	DR. CLEARY		24	A.	And if you read down through the rest of the
25	A.	Yes.	25		response, I find that surprising because the
		Page 134			Page 136
1	KELLY, Q.C.	.:	1		coefficient variation of EBIT volatility, or
2	Q.	Now one of the things you did in your	2		EBIT volatility, if you will, is a standard
3		report, if I can take you to page 23, it	3		measure of business risk seen in finance
4		begins at the bottom of page 23 when you	4		textbooks, accounting textbooks, the CFA
5		talk about business risk, and you read over	5		curriculum. It's very widely known, so when
6		to the top of page 24 with the definition –	6		I'm reading through the evidence and I'm
7		scroll up a bit, Samantha, there we go, and	7		looking at debates such as we're having and
8		then you look at operating income	8		such as have gone on here about qualitative
9		volatility?	9		issues, which are important because they
10	DR. CLEARY	Y:	10		should lead you to a direction, it struck me
11	A.	Yes.	11		that while it seems that there's a good way
12	KELLY, Q.C.	.:	12		to get to the bottom of all this, if you
13	Q.	And that's essentially looking back to see	13		will, and look at the operating income and
14		what's happened in the past, correct?	14		if there's a lot of volatility in operating
15	DR. CLEARY	<i>Y</i> :	15		income, that suggests that there's
16	A.	Correct.	16		volatility in sales that could be causing
17	KELLY, Q.C.	:	17		that, that there's volatility in your
18	Q.	So it's looking historical, not forward? By	18		operating costs that could be causing that,
19	•	definition, that's what you got -	19		and that's why the coefficient variation in
20	DR. CLEARY	• •	20		EBIT is used as a way of categorizing firms
21	A.	You look at historical information based on	21		as low business risk to high business risk.
22		the premise, and this is why people look at	22		I come at it from another perspective that
23		historical information for anything based on	23		also I spent, as a commercial lender, as a
24		the premise that it will be a useful	24		textbook writer, as someone who prepares
25		predictor of the future.	25		cases for teaching finance, I look at

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1	companies not just in the utility industry,	1	ratios, correct?
2	but all different kinds of industries, and	2	DR. CLEARY:
3	that is a standard tool that I would use to	3	A. That would be correct, and also with respect
4	qualify, for example, that firms in the	4	to the U.S., to go through all of the
5	manufacturing industry have much more	5	hearings or whatever, but I have to do that
6	business risk than regulated utilities, and	6	some time because I strongly suspect that
7	that would show up in the coefficient of	7	it's been used in a lot of U.S. hearings.
8	variation of EBIT. So the fact that it	8	KELLY, Q.C.:
9	hasn't been in any Canadian hearings, it	9	Q. But you can't tell this Board that any U.S.
10	doesn't mean that it's not a good approach	10	regulator has used it either?
11	to use because it strikes me, reading from	11	DR. CLARY:
12	the Canadian hearings, that it always ends	12	A. I cannot tell you that, no, I agree.
13	up into a "he said, she said" kind of debate	13	KELLY, Q.C.:
14	over some of these risks, which I think in	14	Q. Can we go to the next one, NP-CA-015, and in
15	some cases the differences are minor.	15	this one you were asked whether any debt
16	Secondly, you know, I said, well, let's see	16	rating agency uses this measure of EBIT
17	if the data bears this out, and clearly when	17	volatility to determine the utility's
18	I did the analysis, all my qualitative	18	business or financial risk, and your answer
19	conclusions were very strongly verified that	19	at line 6, "To the best of Dr. Cleary's
20	holding companies from the U.S. with some	20	knowledge, his measure of EBIT volatility
21	non-regulated competition, with historic	21	have not been used in recent debt rating
22	test years, infrequent hearings, more	22	reports". So the debt rating agencies don't
23	generation, of course, they have more	23	use it either?
24	business risk and then my measure verifies	24	DR. CLEARY:
25	that. Secondly, I would note that this idea	25	A. I have not seen it in any debt rating
23		23	, <u>, , , , , , , , , , , , , , , , , , </u>
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1	of using the coefficient of variation, which	1	reports, but I will say that I have seen it
2	Mr. Coyne asked me a question about it, or	2	in equity analysts' reports.
3	mentioned it in rebuttal, I notice that he	3	KELLY, Q.C.:
4	used the coefficient of variation ROE in	4	Q. But not in debt ratings?
5	those Quebec hearings that were referred to	5	DR. CLEARY:
6	previously. So this idea that the	6	A. Not that I have seen. It doesn't mean
7	coefficient of variation is something new,	7	they're not out there because there's lots
8	well, it's not really new, Mr. Coyne used it	8	of debt rating reports I haven't read.
9	with respect to ROE. The reason I don't $-$ I	9	KELLY, Q.C.:
10	have no problem with using it with respect	10	Q. Sure, but you're not aware of any that you
11	to ROE, but that to me is – that's measuring	11	can point to where debt rating agencies have
12	the variability in total earnings, which is	12	used it?
13	a function of both business risk and	13	DR. CLEARY:
14	financial risk, because ROE is net income.	14	A. Not that I'm aware of.
15		15	KELLY, Q.C.:
13	When you want to look at the business risk	13	
16	When you want to look at the business risk portion only, you look at the operating	16	Q. Now the next question I have – probably the
	•	ı	
16	portion only, you look at the operating	16	Q. Now the next question I have – probably the
16 17	portion only, you look at the operating income, and as you can see – as you can	16 17	Q. Now the next question I have – probably the best thing is if I take you over to page 35.
16 17 18	portion only, you look at the operating income, and as you can see – as you can recall from my presentation, there's not really a big debate that business risk is	16 17 18	Q. Now the next question I have – probably the best thing is if I take you over to page 35. DR. CLEARY: A. Of my direct evidence?
16 17 18 19	portion only, you look at the operating income, and as you can see – as you can recall from my presentation, there's not	16 17 18 19	Q. Now the next question I have – probably the best thing is if I take you over to page 35. DR. CLEARY: A. Of my direct evidence? KELLY, Q.C.:
16 17 18 19 20 21	portion only, you look at the operating income, and as you can see – as you can recall from my presentation, there's not really a big debate that business risk is variability in operating income and that's the standard definition of it.	16 17 18 19 20 21	Q. Now the next question I have – probably the best thing is if I take you over to page 35. DR. CLEARY: A. Of my direct evidence? KELLY, Q.C.: Q. Yes, please. I don't want to spend very
16 17 18 19 20 21 22 KELLY, Q.	portion only, you look at the operating income, and as you can see – as you can recall from my presentation, there's not really a big debate that business risk is variability in operating income and that's the standard definition of it.	16 17 18 19 20 21 22	Q. Now the next question I have – probably the best thing is if I take you over to page 35. DR. CLEARY: A. Of my direct evidence? KELLY, Q.C.: Q. Yes, please. I don't want to spend very much time on this, I think we can do this
16 17 18 19 20 21 22 KELLY, Q.0 23 Q.	portion only, you look at the operating income, and as you can see – as you can recall from my presentation, there's not really a big debate that business risk is variability in operating income and that's the standard definition of it. C.: Now to come back to my question, you're not	16 17 18 19 20 21 22 23	Q. Now the next question I have – probably the best thing is if I take you over to page 35. DR. CLEARY: A. Of my direct evidence? KELLY, Q.C.: Q. Yes, please. I don't want to spend very much time on this, I think we can do this fairly quickly. At lines 8 through 20, in
16 17 18 19 20 21 22 KELLY, Q.	portion only, you look at the operating income, and as you can see – as you can recall from my presentation, there's not really a big debate that business risk is variability in operating income and that's the standard definition of it.	16 17 18 19 20 21 22	Q. Now the next question I have – probably the best thing is if I take you over to page 35. DR. CLEARY: A. Of my direct evidence? KELLY, Q.C.: Q. Yes, please. I don't want to spend very much time on this, I think we can do this

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1		statement data provided in Exhibit 3 by NP	1	well as most regulated Canadian utilities.
2		to construct the estimates". So you did	2	KELLY, Q.C.:
3		certain estimates based on certain factors	3	Q. Can I take you over to NP –
4		to try to work out what you thought credit	4	DR. CLEARY;
5		metrics would be, agreed?	5	A. Sorry, and just to back up, this does make
6	DR. CLEARY		6	the point that 60 percent of this has not to
7	A.	Based on the numbers provided by	7	do with the credit metrics, and, in fact, I
8		Newfoundland Power, and based on their	8	fully believe that, and I do the credit
9		marginal tax rates they estimated for 2016	9	metrics to show that because it's of
10		and 2017, based on their depreciation	10	interest to the Board, and I'm not hanging
11		estimate, right, based on their factors	11	my hat on the metrics – if anything else,
12		affecting the CFO pre-working capital or	12	I'm just saying I'm pretty sure that on the
13		pre-WC, excluding the net income, and then	13	other 60 percent they're going to rate
14		what I did was it allowed net income to vary	14	excellent to very good, so let's make sure
15		with the ROE and ER assumptions.	15	that they don't falter on the financial
16	KELLY, Q.C		16	metrics, which is also part of it, and even
17		So you made certain estimates, and what we	17	if the metrics deteriorated a bit, I still
18	Q.	then have to do is see, well, what would a	18	believe that they would maintain their high
1			ı	· · · · · · · · · · · · · · · · · · ·
19		rating agency do with all this, and I want	19	rating based on that high business
20		to take you to NP-CA-020 where we have all	20	regulatory risk because that, as you pointed
21		of the other factors, and you were asked,	21	out, is 60 percent of the story, and because
22		"Moody's Investor Services weights	22	of that, sometimes the rating agencies are
23		regulatory framework 25 percent ability to	23	willing to overlook metrics that fall even
24		recover cost, and earn returns at 25	24	out of the range, whereas in Newfoundland
25		percent, diversification at 10, etc. Please	25	Power's case, I show that they stay clearly
		Page 142		Page 144
1		provide the values that Dr. Cleary believes	1	in the range, but I've seen reports where
2		Moody's Investor Services will attribute to	2	companies, Canadian utilities, are actually
3		each of the three factors, et cetera", and	3	below the range, but they still got the
4		your answer was, "Dr. Cleary cannot predict	4	rating anyways.
5		precisely how an analyst at Moody's would	5	KELLY, Q.C.:
6		evaluate NP relative to these criteria	6	Q. Now can I take you to NP-CA-022, and it's
7		because there are too many factors involved	7	the answer at line 7 and 8 that I was
8		and such a prediction is also based on	8	interested in. You say your analysis was
9		individual judgment". Agree with that,	9	based on the premise that NP would issue
10		that's your comment?	10	additional long term debt to reduce the
11	DR. CLEARY	Y:	11	common equity ratio. Its calculations
12	A.	Yes.	12	suggest that a debt issue in the vicinity of
13	KELLY, Q.C	<u>.</u>	13	125 million dollars would work. I'm a
14	Q.	And so that –	14	little bit puzzled as to how you got 125
15	DR. CLEARY	Y:	15	million dollars?
16	A.	Sorry, I should qualify that. The one thing	16	DR. CLEARY:
1		I can predict is that, as is the case for	17	A. Okay. Do you mind if I open up my – I can
17		i can piculet is that, as is the case for		J 1 1 J "
1		- · · · · · · · · · · · · · · · · · · ·	ı	tell you conceptually that I assumed that
18		virtually all of the regulated Canadian	18	tell you conceptually that I assumed that the equity ratio didn't change – sorry, the
18 19		virtually all of the regulated Canadian utilities and Newfoundland Power, that they	18 19	the equity ratio didn't change – sorry, the
18 19 20		virtually all of the regulated Canadian utilities and Newfoundland Power, that they will be rated excellent or extremely high on	18 19 20	the equity ratio didn't change – sorry, the common equity component did not change going
18 19 20 21		virtually all of the regulated Canadian utilities and Newfoundland Power, that they will be rated excellent or extremely high on business risk, and that has been the case	18 19 20 21	the equity ratio didn't change – sorry, the common equity component did not change going into 2016, what was based on Newfoundland
18 19 20 21 22		virtually all of the regulated Canadian utilities and Newfoundland Power, that they will be rated excellent or extremely high on business risk, and that has been the case and unless there's a significant change in	18 19 20 21 22	the equity ratio didn't change – sorry, the common equity component did not change going into 2016, what was based on Newfoundland Power's Exhibit 3, and that rather than pay
18 19 20 21 22 23		virtually all of the regulated Canadian utilities and Newfoundland Power, that they will be rated excellent or extremely high on business risk, and that has been the case and unless there's a significant change in the operating environment or the regulatory	18 19 20 21 22 23	the equity ratio didn't change – sorry, the common equity component did not change going into 2016, what was based on Newfoundland Power's Exhibit 3, and that rather than pay out a special dividend, which my
18 19 20 21 22		virtually all of the regulated Canadian utilities and Newfoundland Power, that they will be rated excellent or extremely high on business risk, and that has been the case and unless there's a significant change in	18 19 20 21 22	the equity ratio didn't change – sorry, the common equity component did not change going into 2016, what was based on Newfoundland Power's Exhibit 3, and that rather than pay

Page 146 1 KELLY, Q.C.: 2 Q. Okay. 3 DR. CLEARY: 4 A. So I'm not assuming that, but for illustrative purposes, I had to make some 6 assumption. Having no way of knowing how 7 they would do it, I chose that. 8 KELLY, Q.C.: 9 Q. That's helpful because I was trying to 10 understand. So what that would mean is we'd 11 issue 125 million dollars, whether we 12 immediately need it or not, but, of course, 13 that would have an interest cost to 14 customers right away, wouldn't it? 15 DR. CLEARY: 16 A. Of course. 17 KELLY, Q.C.: 18 Q. Right, but as you mentioned, the ring-fencing has taken place, and as Dr. Booth 17 KELLY, Q.C.: 18 Q. Right. 19 Page 148 1 have an S & P rating? 2 DR. CLEARY: 3 A. I understand there was an issue some years ago with potential downgrade or something along those lines. 4 ago with potential downgrade or something along those lines. 5 KELLY, Q.C.: 7 Q. Right, and so we lost our CBRS, then S & F rating. It then took several years as part of the company's ring-fencing to get the 10 Moody's rating to replace it, and as you 11 indicated to the Board earlier, you need two 12 in order to be able to issue the debt, 13 right? 14 customers right away, wouldn't it? 15 DR. CLEARY: 16 A. Of course. 17 Q. Right, but as you mentioned, the ring-fencing has taken place, and as Dr. Booth 17 mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know to be the case, S & II mentioned, which I know t	Apri	il 11, 2016			NL Power GRA 2016
take to get this to a 40 percent equity ratio and with an extra 125 million, they would get to that 40 percent equity ratio because they would have then more debt on board. 7 KELLY, Q.C.: 8 Q. So what you're proposing is that 9 Newfoundland Power should borrow 125 million dollars and kind of hold it in the treasury, 11 is that kind of what I understand? 12 DR. CLEARY: 13 A. No, that's not what I'm proposing at all. 14 KELLY, Q.C.: 15 Q. Okay. 16 DR. CLEARY: 17 A. I'm saying under this scenario which would 18 bring the equity ratio and the ROE, this is 19 a possibility, knowing full well that 20 Newfoundland Power has at its discretion, 21 and they have people who work in the finance department who would figure out what would 22 department who would figure out what would 23 make the most sense for them in terms of a 24 combination of issuing debt and paying 25 dividends. Page 146 1 KELLY, Q.C.: 2 Q. Okay. 3 DR. CLEARY: 3 DR. CLEARY: 4 A. So I'm not assuming that, but for 5 illustrative purposes, I had to make some 6 a assumption. Having no way of knowing how they would do it, I chose that. 8 KELLY, Q.C.: 2 Q. That's helpful because I was trying to understand. So what that would mean is we'd 11 issue 125 million dollars, whether we 12 immediately need if or not, but, of course, 13 that would have an interest cost to 14 customers right away, wouldn't it? 15 DR. CLEARY: 16 DR. CLEARY: 17 A. A and almost all of them that issue debt have a DBRS rating. 18 kELLY, Q.C.: 2 Q. Okay. 3 DR. CLEARY: 4 A. Exactly, Canadian Bond Rating Service. 4 ELLY, Q.C.: 5 Q. Do you know why Newfoundland Power doesn't have an S & P rating? 6 KELLY, Q.C.: 7 Q. Right, and so we lost our CBRS, then S & F rating. It then took several years as part 19 Q. That's helpful because I was trying to 10 understand. So what that would mean is we'd 11 indicated to the Board earlier, you need two 12 inmediately need if or not, but, of course, 13 that would have an interest cost to 14 customers right away, wouldn't it? 15 Q. Right, the took several yea			Page 145		Page 147
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14 customers right away, wouldn't it? 15 DR. CLEARY: 16 A. Of course. 16 fencing has taken place, and as Dr. Booth 17 KELLY, Q.C.: 18 Q. Right. 19 DR. CLEARY: 19 Q. Right, but as you mentioned, the ring- 19 fencing has taken place, and as Dr. Booth 10 mentioned, which I know to be the case, S & P has a policy where they do not give the	12		immediately need it or not, but, of course,	12	in order to be able to issue the debt,
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17 KELLY, Q.C.: 18 Q. Right. 17 mentioned, which I know to be the case, S & P has a policy where they do not give the	15	DR. CLEAR	Y:	15	Q. Right, but as you mentioned, the ring-
18 Q. Right. P has a policy where they do not give the	16	A.	Of course.	16	
	17	KELLY, Q.C	· .	17	mentioned, which I know to be the case, S &
	18	Q.	Right.	18	P has a policy where they do not give the
	19	DR. CLEAR	Y:	19	operating company – sorry, they do not give
20 A. As I said, I'm not recommending that, 20 the holding company a higher rating than th	20	A.	As I said, I'm not recommending that,	20	the holding company a higher rating than the
21 although I would say, and again as noted in 21 operating company, right.	21		•	21	operating company, right.
my direct, that if you're going to change 22 KELLY, Q.C.:	22		my direct, that if you're going to change	22	KELLY, Q.C.:
your capital structure and issue debt, this 23 Q. Are there any other rating agencies	23		your capital structure and issue debt, this	23	Q. Are there any other rating agencies
is a very good time to do it with the low 24 operating in Canada other than those three?			is a very good time to do it with the low	24	operating in Canada other than those three?
25 rates, and that's why a fair number of 25 DR. CLEARY:	25		rates, and that's why a fair number of	25	DR. CLEARY:

Page 149 Page 151 Those are the three that I note for CERTIFICATE 1 A. 2 utilities. I'm quite sure that some of the I, Judy Moss, do hereby certify that the foregoing is a true and correct transcript of a 3 Canadian companies listed in the U.S. have Fitch ratings as well. hearing in the matter of a General Rate 4 Application by Newfoundland Power Inc. to KELLY, Q.C.: Fitch is in the U.S., but those are the only establish customer electricity rates for 2016 and 6 Q. 7 three effectively in Canada? 2017 heard on the 11th day of April, 2016 at the Public Utilities Commission office, St. John's, DR. CLEARY: 9 Well, for the Canadian utilities, those are Newfoundland and Labrador and was transcribed by A. me to the best of my ability by means of a sound 10 the three biggies. KELLY, Q.C.: apparatus. 12 Q. Thank you, Dr. Cleary, those are my Dated at St. John's, NL this 13 questions. 11th day of April, 2016 14 DR. CLEARY: 15 Thank you. A. 16 CHAIRMAN: 17 Q. I guess I'm over to you, Madam? 18 GREENE, Q.C.: Judy Moss 19 Q. Yes, thank you, Mr. Chair. I have no Discoveries Unlimited Inc. 20 questions for Dr. Cleary. 21 CHAIRMAN: 22 Okay, Mr. Johnson, do you have any re-Q. direct? 23 24 JOHNSON, Q.C.: 25 No re-direct, Mr. Chairman. Page 150 CHAIRMAN: I guess we're finished, are we, for today, Q. 3 is that right? 4 JOHNSON, Q.C.: Yes. O. CHAIRMAN: 7 Gee, what am I doing? Excuse me. Q. VICE-CHAIR WHALEN: 9 I have no questions. Thank you, Dr. Cleary. Q. 10 CHAIRMAN: 11 Q. No questions. Thank you, sir. 12 DR. CLEARY: Thank you very much. 13 A. 14 CHAIRMAN: So tomorrow morning at 9 o'clock again, is 15 Q. that correct, or 9:30? 16 17 MS. GLYNN: No, no, 9 o'clock. 18 A. 19 CHAIRMAN: 20 Okay, thank you very much. O. 21 (UPON CONCLUDING AT 12:18 P.M.) 22 23 24 25

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