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		Page 1			Page 3
1	(9:05 a.m.)		1	Q.	Right and when we actually were here in the
2	CHAIRMAN:		2		hearing roomif you want, we'll—we can go
3	Q.	So I understand there are no preliminary	3		to the transcript of January 18th, 2013.
4		matters.	4		Samantha, if you could bring that up at page
5	MS. GLYNN:		5		117. And if you go down to lines 19 through
6	Q.	That's right, Mr. Chair.	6		about 23, you'll see, "No, I wouldn't regard
7	KELLY, Q.C.		7		that as unusual. What I would say is what's
8	Q.	No, Mr. Chairman.	8		unusual is the starting point and the
9	CHAIRMAN:	•	9		starting point at the moment is long Canada
10	Q.	So I think, Mr. Kelly, we are over to you,	10		bond yields of 2.3, 2½ percent, forecast 2.7
11	٧.	sir.	11		percent." Correct?
12	DR LAUREN	ICE BOOTH (PREVIOUSLY SWORN) CROSS-	12	DR. BOOTH:	percent. Correct:
13		ON BY IAN KELLY, Q.C.	13	A.	That was unusual then and it's exactly the
14	KELLY, Q.C.		14	Λ.	same thing that's unusual at the moment.
15	Q.	Thank you, Mr. Chairman. Good morning, Dr.	15	KELLY, Q.C.:	
16	Q.	Booth.	16		Okay. Now, can I take you next to page 440
1	DR. BOOTH:	Douil.	l	Q.	
17 18		Good morning Mr. Valler	17 18		of the company's evidence that's filed in this matter? It's in the Finance Section
1	A.	Good morning, Mr. Kelly.			
19 20	KELLY, Q.C.		19		and—there you go. And we have a graph there
1	Q.	Dr. Booth, this is our third discussion. We	20		that shows where interest rates have gone,
21		had our first discussion on cost of capital	21		and if we look at the January 2013 period,
22		in 2009, just to kind of refresh your	22		you can see we're about 2.3 percent. They
23		memory, and then again in January of 2013.	23		go up to about, say, 3.1 approximately.
24		So, and we have substantially the same Board	24		Move along down to 2015, they're down just
25			25		
		Page 2			Page 4
1		as before, so there's a lot that I'm not	1		below two and where this graph ends, a
2		going to go back over because the Board is	2		little above two. Correct?
3		already heard it before, but what I did want	3	DR. BOOTH:	
4		to start with is the situation that we're in	4	A.	That's correct.
5		now versus the situation that we were in in	5	KELLY, Q.C.	:
6		January 2013 when we had our last	6	Q.	Right.
7		discussion, just so you know where I'm	7	DR. BOOTH:	
8		going. And at that point in time the long	8	A.	That was the bump I was talking about with—
9		Canada 30-year bond rate was about 2.3	9		when the U.S. introduced this schedule for
10		percent?	10		stock in the bond buying program.
11	DR. BOOTH		11	KELLY, Q.C.	:
12	A.	That sounds about right.	12	Q.	Right.
13	KELLY, Q.C		13	DR. BOOTH:	
14	Q.	Right. We can take you to a reference if	14	A.	That was when interest rates popped up.
15		you want.	15	KELLY, Q.C.	:
16	DR. BOOTH	:	16	Q.	And so where—we've moved in a very narrow
17	A.	Yeah.	17		range over that period from 2013 to
18	KELLY, Q.C	· .	18		essentially where we are today?
19	Q.	But 2.3 percent –	19	DR. BOOTH:	
20	DR. BOOTH	:	20	A.	Relatively, yes.
21	A.	Yeah, I remember the—I think I used the full	21	KELLY, Q.C.	:
22		cost of three percent which is about 20	22	Q.	Okay. Can I take you next to your
23		basis points more than I'm using now.	23		Surrebuttal Evidence, just so we can fill
24	KELLY, Q.C	•	24		out the end from that graph at page 3?
25	-		25		- -
				- (700) 427 50	

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		Page 5		<u> </u>	Page 7
1		There you go. And you very helpfully here	1		a risk return trade-off.
2		for us put up the latest RBC forecast and if	2	KELLY, Q.C.	:
3		we look out through 2016, if we come down to	3	Q.	Okay.
4		the Canada 30 year line, and we go across,	4	DR. BOOTH:	•
5		the first quarter 2016, the second quarter,	5	A.	Individuals basically saying, "I want this
6		all the way over then to the end of 2017,	6		on a fixed income security and I need this
7		the current forecasts are 3.35 percent?	7		as a risk premium. So this is what I want
8	DR. BOOTH:	•	8		for expected rate of return or the required
9	A.	That's right. That's RBC's forecast. They	9		return on equities." But the only problem
10		tend to be a little bit optimistic, but not	10		is, is it's not individuals determining the
11		that much different from the consensus.	11		long Canada bond yield.
12	KELLY, Q.C.		12	KELLY, Q.C.	:
13	Q.	Right, it's—right, and in fact we'll see in	13	Q.	Right, and –
14		a little—in a few minutes your colleagues at	14	DR. BOOTH:	
15		the University of Toronto tend to be even a	15	A.	And it'swhat I think I referred to three
16		little more optimistic?	16		years is the global policy maker.
17	DR. BOOTH:		17	KELLY, Q.C.	:
18	A.	Yeah, I've taken them to task on that many	18	Q.	Right.
19		times, but –	19	DR. BOOTH:	
20	KELLY, Q.C.	:	20	A.	Which are the central banks.
21	Q.	Right, okay.	21	KELLY, Q.C.	:
22	DR. BOOTH:		22	Q.	Okay, now if we can just get Samantha to put
23	A.	- they rely upon large-scale macroeconomic	23		up the transcript again from the last time,
24		model rather than what's going on in the	24		at page 9? And we go there to the top of
25			25		
			23		
		Page 6	23		Page 8
1		Page 6 market.	1		Page 8 the page where I asked you the question,
	KELLY, Q.C.	market.			<u> </u>
1	KELLY, Q.C. Q.	market.	1		the page where I asked you the question,
1 2	, ,	market.	1 2		the page where I asked you the question, "Now in your report I tried to figure out
1 2 3	, ,	market. : Different people with different views, but	1 2 3		the page where I asked you the question, "Now in your report I tried to figure out what you think the current interest rates
1 2 3 4	, ,	market. : Different people with different views, but if I can get—just get Samantha to put back	1 2 3 4		the page where I asked you the question, "Now in your report I tried to figure out what you think the current interest rates are going to be for 2013, and I didn't
1 2 3 4 5	, ,	market. : Different people with different views, but if I can get—just get Samantha to put back up the graph that we just had? Bearing in	1 2 3 4 5		the page where I asked you the question, "Now in your report I tried to figure out what you think the current interest rates are going to be for 2013, and I didn't really find a clear answer to that because
1 2 3 4 5 6	, ,	market. : Different people with different views, but if I can get—just get Samantha to put back up the graph that we just had? Bearing in mind now we're looking out to 2017, and we	1 2 3 4 5 6		the page where I asked you the question, "Now in your report I tried to figure out what you think the current interest rates are going to be for 2013, and I didn't really find a clear answer to that because at the end of the day you come to the
1 2 3 4 5 6 7	, ,	market. : Different people with different views, but if I can get—just get Samantha to put back up the graph that we just had? Bearing in mind now we're looking out to 2017, and we if extend out that graph line, essentially	1 2 3 4 5 6 7		the page where I asked you the question, "Now in your report I tried to figure out what you think the current interest rates are going to be for 2013, and I didn't really find a clear answer to that because at the end of the day you come to the conclusion, 'Well, I've got to adjust it to
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1 2 3 4 5 6 7 8 9	Q. DR. BOOTH: A.	market. : Different people with different views, but if I can get—just get Samantha to put back up the graph that we just had? Bearing in mind now we're looking out to 2017, and we if extend out that graph line, essentially we'll have moved from the low 2s up to about 3.2, and as we get out towards the end of 2017, the forecast is about 3.35? That is correct.	1 2 3 4 5 6 7 8 9		the page where I asked you the question, "Now in your report I tried to figure out what you think the current interest rates are going to be for 2013, and I didn't really find a clear answer to that because at the end of the day you come to the conclusion, 'Well, I've got to adjust it to 380 because that's'—'I've got to at least get there before it's going to make any difference." And your answer was, "I think
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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. BOOTH: A. KELLY, Q.C. Q.	market. Different people with different views, but if I can get—just get Samantha to put back up the graph that we just had? Bearing in mind now we're looking out to 2017, and we if extend out that graph line, essentially we'll have moved from the low 2s up to about 3.2, and as we get out towards the end of 2017, the forecast is about 3.35? That is correct. Correct, again that's a fairly narrow range. And as I understand your position, essentially it is that none of this really matters because until you get to an equilibrium yield of about 3.8 percent or yesterday you referred I think to 3.8 to 4, that that doesn't result in any changes? That is correct, and that's the same	1 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. BOOTH:	the page where I asked you the question, "Now in your report I tried to figure out what you think the current interest rates are going to be for 2013, and I didn't really find a clear answer to that because at the end of the day you come to the conclusion, 'Well, I've got to adjust it to 380 because that's'—'I've got to at least get there before it's going to make any difference." And your answer was, "I think you're reading is absolutely correct, Mr. Kelly." Yeah, I think that was—your reading was correct then and your reading is correct now. And what—right, which is the point I'm kind of coming to. We're essentially in the same position today as we were in January of 2013?

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		Page 9			Page 11
1		finished 2012, the U.S. finished 2014, but	1	DR. BOOTH:	
2		now we've got this mass of bond buying	2	A.	No, it is. It's something I've grabbled
3		programs by the European Central Bank and	3		with for the last four years. 2009 we saw a
4		the Bank of Japan. So I think I said,	4		rapid spring-back in the Canadian economy.
5		"Waiting for Godot." I should have said in	5		2010, the Bank of Canada started moving up
6		the play Godot never turns up.	6		short-term interest rates, and the Royal
7	KELLY, Q.C	1	7		Bank and other forecasters were saying,
8	Q.	I was going to ask you about that.	8		"Well look, Canada, a sort recession. We're
9	CHAIRMAN		9		going to be back on stream." And then we
10	Q.	Yes.	10		watched our major trading partners, and the
11	KELLY, Q.C		11		U.S. introduced quantitative easing or bond
12	Q.	And it's—there's a couple of other	12		buying. That knocked us back. All of a
13	ζ.	references first where you make it clear	13		sudden, massive bond buying by the U.S.
14		that you view the 3.8 percent as a minimum	14		Government and 3½ trillion dollars' worth of
15		level, correct?	15		securities taken off the capital market.
16	DR. BOOTH:		16		That's where we were in 2012. I started to
17	A.	That's correct.	17		get—well, is this the new normal? When is
18	KELLY, Q.C		18		this going to happen? If the U.S. was to
19	Q.	··· Yes.	19		suddenly dump those 3½ trillion dollars'
20	DR. BOOTH:		20		worth of securities on the capital market,
21	A.	Two percent inflation, 3.3 percent after tax	21		interest rates would pop up, two, three,
22	11.	is barely the rate of inflation. So it's a	22		four percent without any question
23		negative real interest rate.	23		whatsoever. Now we've not just got the U.S.
24	KELLY, Q.C	_	24		We've got the other major capital markets.
25	KEELI, Q.C		25		we ve got the other major capital markets.
1		Page 10	-		Page 12
1	Q.	•	١.,		
1 1		I lugy So let me come then to your direction	1 1		I compare it a bath is a liquidity money
1 2		Okay. So let me come then to your question	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$		I compare it a bath, i.e. liquidity money.
2		about "Waiting for Godot," because you	2		Three years ago we had the U.S. opening the
3		about "Waiting for Godot," because you mentioned that yesterday and in fact in—you	2 3		Three years ago we had the U.S. opening the taps full force, filling up the world with
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DR. BOOTH: A. KELLY, Q.C.:	about "Waiting for Godot," because you mentioned that yesterday and in fact in—you make the same comment in NP-CA-082, and we don't need to go there, but when we first had this discussion in 2009, you said to the Board you expected interest rates within a few years to go to the 4.5, 5, 5.5 range. When we had this discussion the last time, you still expected them to go to that range, but had no clarity as to when we were going to get there, and as you said in "Waiting for Godot," Godot never came, and it was Beckett's thesis presumably that he was never going to come. And for clarity as to what you mean by "Waiting for Godot," is it that yes, we will eventually get there, but it's still well off in the future? In other words, are we still waiting for something you expect to happen? A very good question, Mr. Kelly.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH:	Three years ago we had the U.S. opening the taps full force, filling up the world with liquidity, with cash. They've turned off the taps, but the bath, the U.S. bath is incredibly full, and we've got the Europeans and the Bank of Japan. They've—their taps are wide open. So the world is awash with liquidity. Okay, so — And when we think about that—and this is where I take exception. I've had discussions with our people in a macroeconomic forecasting model. They've got a standard macroeconomic forecasting model, a large-scale model with all of these exports, imports and everything else. The critical thing is the global policy makers. Do the central banks dump all of those securities and get us back to normal, or do

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		Page 13			Page 15
1	KELLY, Q.C.	:	1	DR. BOOTH:	
2	Q.	Right.	2	A.	If you asked, me would I buy bonds now, I
3	DR. BOOTH:	-	3		would say no. If you asked me do I think
4	A.	Personally, I don't think the monetary	4		we're going to have interest rates of 3½
5		policy is working and hasn't worked for	5		percent next year, I'd say highly, highly
6		several years.	6		unlikely. I discounted the idea of a new
7	KELLY, Q.C.	•	7		normal four—three or four years ago, but I
8	Q.	Okay, don't –	8		think we may end up being in this period of
	DR. BOOTH:	· ·	9		low interest rates for at least another
10	A.	But that's the only stream –	10		three to five years.
11	KELLY, Q.C.	· ·	11	KELLY, Q.C.	·
12			12		Okay. And so as a result of that, your
1	Q.	No need to dive too deeply into the world's		Q.	· · · · · · · · · · · · · · · · · · ·
13	DD DOOTH.	monetary policy.	13	DD DOOTH.	recommendation hasn't changed, correct?
14	DR. BOOTH:		14	DR. BOOTH:	
15	A.	Okay, if I –	15	A.	That's correct.
16	KELLY, Q.C.		16	KELLY, Q.C.	
17	Q.	Because it –	17	Q.	And I take it from that, that your view of
18	DR. BOOTH:		18		the cost of capital hasn't changed?
19	A.	I don't know, Mr. Kelly. I would say 2009 I	19	DR. BOOTH:	
20		was confident that we had a normal spring-	20	A.	That's correct. I've recommended 7½ percent
21		back. 2012, I began to question this	21		three years ago, and recommended that the
22		because of the U.S. Central Bank Bond	22		Board use an automatic adjustment model, but
23		purchases. Now there's absolutely no	23		not change anything until the interest rates
24		question; the capital markets do not believe	24		hit 3.8 percent. Until that happens, we do
25			25		
		Page 14			Page 16
1		Page 14 the economists.	1		Page 16 not have ordinary investors determining
	KELLY, Q.C.	the economists.	1 2		<u> </u>
1	KELLY, Q.C. Q.	the economists.	l		not have ordinary investors determining interest rates.
1 2		the economists.	2	KELLY, Q.C.:	not have ordinary investors determining interest rates.
1 2 3	Q.	the economists. All right, so –	2 3	KELLY, Q.C.:	not have ordinary investors determining interest rates.
1 2 3 4	Q. DR. BOOTH:	the economists.	2 3 4	KELLY, Q.C.: Q.	not have ordinary investors determining interest rates. So your message to the Board, if I follow
1 2 3 4 5	Q. DR. BOOTH:	the economists. All right, so — If they did and interest rates increased,	2 3 4 5	KELLY, Q.C.: Q.	not have ordinary investors determining interest rates. So your message to the Board, if I follow you correctly, is this is the time to stay the course, nothing has changed to warrant
1 2 3 4 5 6	Q. DR. BOOTH:	the economists. All right, so — If they did and interest rates increased, there'd be massive losses in the bond portfolios.	2 3 4 5 6	KELLY, Q.C.: Q.	not have ordinary investors determining interest rates. So your message to the Board, if I follow you correctly, is this is the time to stay
1 2 3 4 5 6 7	Q. DR. BOOTH: A.	the economists. All right, so — If they did and interest rates increased, there'd be massive losses in the bond portfolios.	2 3 4 5 6 7	KELLY, Q.C.: Q.	not have ordinary investors determining interest rates. So your message to the Board, if I follow you correctly, is this is the time to stay the course, nothing has changed to warrant
1 2 3 4 5 6 7 8	Q. DR. BOOTH: A. KELLY, Q.C.	the economists. All right, so — If they did and interest rates increased, there'd be massive losses in the bond portfolios. So we've gone from your certainty of 2009 to	2 3 4 5 6 7 8	KELLY, Q.C.: Q. DR. BOOTH: A.	not have ordinary investors determining interest rates. So your message to the Board, if I follow you correctly, is this is the time to stay the course, nothing has changed to warrant doing anything differently?
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		Page 17			Page 19
1		more pessimistic about where interest rates	1	Q.	Right, exactly. So if interest rates move
2		are going. You probably remember, Mr.	2		around a little bit, and we've looked at
3		Kelly, that I offered the Board an	3		that graph, when they went up to 3.35 in
4		alternative three years ago, that they use	4		2015, you wouldn't have said, "Oh
5		an automatic adjustment mechanism and not	5		Newfoundland Power's cost to capital should
6		increase until interest rates go above 3.8	6		go up," because we're just still in that
7		percent, or they go with the fixed rate. I	7		narrow little range?
8		think it was 8.2 percent three years ago.	8	DR. BOOTH:	
9		I've dropped that recommendation because I	9	A.	Yeah, my recommendation would have been 7.5
10		don't see interest rates increasing over the	10		percent.
11		two test years to a level that would make	11	KELLY, Q.C.:	*
12		8.2 percent a fair ROE.	12		Exactly.
ı	VELLY O.C	÷	13	DR. BOOTH:	Exactly.
13	KELLY, Q.C		1		A d I A I hada da dall dhia Ma
14	Q.	So across the Canadian capital market, I'm	14		And I suspect, I hate to tell you this, Mr.
15		taking it from what you've said, that the	15		Kelly, that if we come back here in three
16		cost of equity is essentially the same today	16		years' time –
17		as it was in 2013?	17	KELLY, Q.C.:	
18	DR. BOOTH		18	Q.	You may be saying the same thing.
19	A.	That's correct. The -	19	DR. BOOTH:	
20	KELLY, Q.C		20		- my best bet at the moment is that it's
21	Q.	2012. All right.	21		going to be exactly the same in three years'
1	DR. BOOTH:		22		time as it is now.
22	DR. DOOTH				
1	A.	I would say the overall equity market, there	23	KELLY, Q.C.:	
22		I would say the overall equity market, there might be a 50—I think there's generally	23 24		Now let's have a look at PUB-CA-005. And
22 23					
22 23 24			24		
22 23 24		might be a 50—I think there's generally Page 18	24		Now let's have a look at PUB-CA-005. And Page 20
22 23 24 25		Page 18 about a 50-basis points or so decline in the	24 25		Now let's have a look at PUB-CA-005. And Page 20 Samantha, if you scroll up to—scroll along
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22 23 24 25 1 2 3 4		Page 18 about a 50-basis points or so decline in the expects return on the equity market, but there's a range of seven to eight or nine percent by different people at like Aon and	24 25 1 2 3 4		Page 20 Samantha, if you scroll up to—scroll along so we get lines 15 through about—there we go, that part of the thing. And you explain toin response to this RFI, Dr. Booth, how
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Apri	18, 2016				NL Power GRA 2016
		Page 21			Page 23
1		judgment, correct?	1		provided you with your evidence and perhaps
2	DR. BOOTH:	•	2		that needs to be marked as the next –
3	A.	Absolutely.	3	MS. GLYNN:	
4	KELLY, Q.C.	•	4	Q.	Information Number 31.
5	Q.	Yes.	5	KELLY, Q.C.:	
6	DR. BOOTH:		6	Q.	Thirty-one. And Dr. Booth, I'm going to
7	A.		'	Q.	
1 ′	A.	The Board, any board, is up there in order	7		take you into that to page 25 and to the
8		to exercise judgment to determine what is	8		bottom of the page. Can we go to page 25,
9	WELLW O.C.	fair and reasonable -	9		Samantha? The bottom of the page. There we
10	KELLY, Q.C.		10		go, and this is the rate that you were
11	Q.	Right.	11		looking at in 2013 and '14?
12	DR. BOOTH:		12	DR. BOOTH:	
13	A.	- in terms of the rates.	13	A.	That's correct.
14	KELLY, Q.C.	:	14	KELLY, Q.C.:	
15	Q.	So in the capital asset pricing model, or I	15	Q.	And you say there, "The RBC forecast for
16		don't know if you want to call it your	16		Canada is now more optimistic than that of
17		adjusted model, we still have the basic—	17		the September consensus that puts the 10-
18		whatever the risk-free rate is, which you're	18		year Canada bond yield at 1.8 2 months out
19		saying is 3.8 as an equilibrium number,	19		and 2.2 12 months out, so adding the current
20		correct?	20		spread for the 30-year bond implies a
21	DR. BOOTH:		21		forecast long-term Canada yield of barely
$\begin{vmatrix} 21\\22\end{vmatrix}$	A.	Well that's true. I mean the forecast for	22		2.8 percent." Correct?
23	Α.	the test here, I think I have is 2.8	23	DR. BOOTH:	2.8 percent. Correct:
1		•	24		That's correct
24		percent.		A.	That's correct.
25			25		
25		Page 22	23		Page 24
1	KELLY, Q.C.:	•	1	KELLY, Q.C	
1 2	, ,	•	1 2	KELLY, Q.C Q.	
1	, ,	Ç	1		.i.
1 2	Q. DR. BOOTH:	Ç	1 2		And if you could, just go on to the next
1 2 3	Q. DR. BOOTH:	We'll come to that. I mean that's reasonable objective.	1 2 3		And if you could, just go on to the next page, Samantha? "I would judge long-term
1 2 3 4	Q. DR. BOOTH: A. KELLY, Q.C.:	We'll come to that. I mean that's reasonable objective.	1 2 3 4		And if you could, just go on to the next page, Samantha? "I would judge long-term Canada yields are marginally less than three percent as well below any equilibrium yield
1 2 3 4 5	Q. DR. BOOTH: A. KELLY, Q.C.: Q.	We'll come to that. I mean that's reasonable objective.	1 2 3 4 5		And if you could, just go on to the next page, Samantha? "I would judge long-term Canada yields are marginally less than three percent as well below any equilibrium yield since they are only one percent above
1 2 3 4 5 6 7	Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH:	We'll come to that. I mean that's reasonable objective. We'll come to that one.	1 2 3 4 5 6 7		And if you could, just go on to the next page, Samantha? "I would judge long-term Canada yields are marginally less than three percent as well below any equilibrium yield since they are only one percent above forecast inflation," et cetera. I'm going
1 2 3 4 5 6 7 8	Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A.	We'll come to that. I mean that's reasonable objective. We'll come to that one. Yeah.	1 2 3 4 5 6 7 8		And if you could, just go on to the next page, Samantha? "I would judge long-term Canada yields are marginally less than three percent as well below any equilibrium yield since they are only one percent above forecast inflation," et cetera. I'm going to stop there. And the rate that you used
1 2 3 4 5 6 7 8 9	Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A. KELLY, Q.C.:	We'll come to that. I mean that's reasonable objective. We'll come to that one. Yeah.	1 2 3 4 5 6 7 8 9		And if you could, just go on to the next page, Samantha? "I would judge long-term Canada yields are marginally less than three percent as well below any equilibrium yield since they are only one percent above forecast inflation," et cetera. I'm going to stop there. And the rate that you used in your analysis in 2012 was that three
1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A. KELLY, Q.C.:	We'll come to that. I mean that's reasonable objective. We'll come to that one. Yeah.	1 2 3 4 5 6 7 8 9	Q.	And if you could, just go on to the next page, Samantha? "I would judge long-term Canada yields are marginally less than three percent as well below any equilibrium yield since they are only one percent above forecast inflation," et cetera. I'm going to stop there. And the rate that you used in your analysis in 2012 was that three percent rate, correct?
1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH:	We'll come to that. I mean that's reasonable objective. We'll come to that one. Yeah. But the equilibrium rate 3.8 to 4?	1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH:	And if you could, just go on to the next page, Samantha? "I would judge long-term Canada yields are marginally less than three percent as well below any equilibrium yield since they are only one percent above forecast inflation," et cetera. I'm going to stop there. And the rate that you used in your analysis in 2012 was that three percent rate, 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 23	Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A. KELLY, Q.C.: Q.	We'll come to that. I mean that's reasonable objective. We'll come to that one. Yeah. But the equilibrium rate 3.8 to 4? Yeah. The market risk premium and beta. These are all factors as we talked about the last time that require judgment, either your judgment as the finance professor and ultimately the Board's regulatory judgment. Correct? That's correct. Right. Now let's go to the point that you just touched on which is your interest rate	1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH: A. KELLY, Q.C Q. DR. BOOTH: A. KELLY, Q.C Q. DR. BOOTH: A.	And if you could, just go on to the next page, Samantha? "I would judge long-term Canada yields are marginally less than three percent as well below any equilibrium yield since they are only one percent above forecast inflation," et cetera. I'm going to stop there. And the rate that you used in your analysis in 2012 was that three percent rate, correct? I think so, yeah. I think - As your starting CAPM analysis? Yeah, I think so and then I added 80 basis points for my bond buying. And your 40 for credit spread adjustments? Yeah, that's correct. So you started at three the last time. Now
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A. KELLY, Q.C.: Q.	We'll come to that. I mean that's reasonable objective. We'll come to that one. Yeah. But the equilibrium rate 3.8 to 4? Yeah. The market risk premium and beta. These are all factors as we talked about the last time that require judgment, either your judgment as the finance professor and ultimately the Board's regulatory judgment. Correct? That's correct. Right. Now let's go to the point that you	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C Q. DR. BOOTH: A. KELLY, Q.C Q. DR. BOOTH: A. KELLY, Q.C	And if you could, just go on to the next page, Samantha? "I would judge long-term Canada yields are marginally less than three percent as well below any equilibrium yield since they are only one percent above forecast inflation," et cetera. I'm going to stop there. And the rate that you used in your analysis in 2012 was that three percent rate, correct? I think so, yeah. I think - As your starting CAPM analysis? Yeah, I think so and then I added 80 basis points for my bond buying. And your 40 for credit spread adjustments? Yeah, that's correct.

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		Page 25			Page 27
1		and it's at page 25, line 17, and if you—no,	1		across the 30-year long bond rate and we
2		page 25 of Dr. Booth's current testimony.	2		come to 2017, we have rates that would go to
3		Oh, I'm sorry, still looking for it. There	3		3.65 percent. And as we've just seen,
4		you go. And we'll go to the last paragraph,	4		looking at your—the corresponding updated
5		okay? Now in this one you again are	5		data, you'd have 3.35 percent? Correct?
6		referring in line 10 to the RBC forecast and	6	DR. BOOTH:	####, year a san color process.
7		if I come down a little bit to the sentence	7	A.	That's correct.
8		that begins, "If the current spread from	8	KELLY, Q.C.	
9		Schedule 2 between the 30, 2.05 percent and	9	Q.	Right. So do we not—to compare apples to
10		the 10-year 1.2 percent bond of .81 percent	10	ζ.	apples, do we not need to essentially say
11		is added to the end of the 2016 forecast,	11		that the rate looking out over 2017 is
12		this implies the 30-year bond yield at the	12		something in the three percent range?
13		end of 2016 will be only 3.01 percent. The	13	DR. BOOTH:	something in the three percent range.
14		average of March and December consensus	14	A.	As I said, Mr. Kelly, the—I mean you're
15		forecast which is a proxy for the average	15	11.	correct. If I was to be consistent with
16		for the year as a whole, and consistent with	16		what I did three years ago, then at that
17		the application to an average forward test	17		point as I said I offered a fixed rate, but
18		year rate is 2.81 percent." Correct?	18		remember we're—three years ago we were
19	DR. BOOTH:		19		talking about returning to the adjustment
20	A.	That's correct.	20		mechanism. So I was looking for—I forget
21	KELLY, Q.C.		21		what the test year was, but I was looking
22	Q.	Right, now the 2.81 percent is essentially	22		for the test year for a starting point for
23	Q.	the same as the 2.8 percent that you looked	23		the automatic adjustment mechanism, and I
24		at the last time?	24		offered an alternative. It was a fixed
47		at the last time:	ı		officied all affermative. It was a fixed
25			L 2.5		
25		Daga 76	25		Daga 20
	DD DOOTH-	Page 26			Page 28
1	DR. BOOTH:	Ç	1		rate. As we've just been talking, I'm
1 2	A.	Yes.	1 2		rate. As we've just been talking, I'm getting less and less pessimistic about
1 2 3	A. KELLY, Q.C.	Yes.	1 2 3		rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had
1 2 3 4	A. KELLY, Q.C. Q.	Yes.	1 2 3 4		rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast
1 2 3 4 5	A. KELLY, Q.C. Q. DR. BOOTH:	Yes. Correct?	1 2 3 4 5		rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last
1 2 3 4	A. KELLY, Q.C. Q. DR. BOOTH: A.	Yes. Correct? They were basically exactly the same.	1 2 3 4	VELLY O.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years.
1 2 3 4 5 6 7	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	Yes. Correct? They were basically exactly the same.	1 2 3 4 5 6 7	KELLY, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years.
1 2 3 4 5 6 7 8	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same.	1 2 3 4 5 6 7 8	Q.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years.
1 2 3 4 5 6 7 8 9	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	Yes. Correct? They were basically exactly the same. Exactly.	1 2 3 4 5 6 7 8 9	Q. DR. BOOTH:	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay.
1 2 3 4 5 6 7 8 9 10	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material.	1 2 3 4 5 6 7 8 9	Q. DR. BOOTH: A.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened.
1 2 3 4 5 6 7 8 9 10	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material.	1 2 3 4 5 6 7 8 9 10	Q. Dr. Booth: A. Kelly, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened.
1 2 3 4 5 6 7 8 9 10 11 12	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you	1 2 3 4 5 6 7 8 9 10 11 12	Q. DR. BOOTH: A. KELLY, Q.C. Q.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened.
1 2 3 4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going	1 2 3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened.
1 2 3 4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014	1 2 3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot."
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014 test year. This time we need to look at the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot."
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot." Right, but my point still is, and I think
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014 test year. This time we need to look at the rate going out through 2016 – 2017, correct?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot." Right, but my point still is, and I think we've—you've agreed with me on it, that if
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014 test year. This time we need to look at the rate going out through 2016 – 2017, correct? That's correct.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot." Right, but my point still is, and I think we've—you've agreed with me on it, that if the—since the Board is looking to compare
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014 test year. This time we need to look at the rate going out through 2016 – 2017, correct? That's correct.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now — Which is "Waiting for Godot." Right, but my point still is, and I think we've—you've agreed with me on it, that if the—since the Board is looking to compare where we were the last time and where we are
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014 test year. This time we need to look at the rate going out through 2016 – 2017, correct? That's correct. Right, but you haven't factored that in	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot." Right, but my point still is, and I think we've—you've agreed with me on it, that if the—since the Board is looking to compare where we were the last time and where we are this time, we need to be adding—we'd be
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. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014 test year. This time we need to look at the rate going out through 2016 – 2017, correct? That's correct. Right, but you haven't factored that in because if we go back to the top of the page	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot." Right, but my point still is, and I think we've—you've agreed with me on it, that if the—since the Board is looking to compare where we were the last time and where we are this time, we need to be adding—we'd be needing to look at that out through 2017
1 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. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014 test year. This time we need to look at the rate going out through 2016 – 2017, correct? That's correct. Right, but you haven't factored that in because if we go back to the top of the page when you're writing this, Samantha, and we	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot." Right, but my point still is, and I think we've—you've agreed with me on it, that if the—since the Board is looking to compare where we were the last time and where we are this time, we need to be adding—we'd be needing to look at that out through 2017 which would take us, as we've just seen,
1 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.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014 test year. This time we need to look at the rate going out through 2016 – 2017, correct? That's correct. Right, but you haven't factored that in because if we go back to the top of the page when you're writing this, Samantha, and we look at the—this was the RBC forecast which	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot." Right, but my point still is, and I think we've—you've agreed with me on it, that if the—since the Board is looking to compare where we were the last time and where we are this time, we need to be adding—we'd be needing to look at that out through 2017
1 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. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Yes. Correct? They were basically exactly the same. Exactly. The .01 percent is not material. Absolutely. Last time however though, you looked out to see what was the rate going out into 2014 because we have a 2013 - 2014 test year. This time we need to look at the rate going out through 2016 – 2017, correct? That's correct. Right, but you haven't factored that in because if we go back to the top of the page when you're writing this, Samantha, and we	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	rate. As we've just been talking, I'm getting less and less pessimistic about future interest rate increases. We've had essentially theexactly the same forecast of increasing interest rates for the last six years. Okay. And it hasn't happened. Okay, now – Which is "Waiting for Godot." Right, but my point still is, and I think we've—you've agreed with me on it, that if the—since the Board is looking to compare where we were the last time and where we are this time, we need to be adding—we'd be needing to look at that out through 2017 which would take us, as we've just seen,

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		Page 29			Page 31
1	A.	That's correct.	1	Q.	Exactly the same.
2	KELLY, Q.C.	:	2	DR. BOOTH:	
3	Q.	Right, about 20 basis points more than what	3	A.	In fact, I think they're same in—as in 2009.
4		you've factored into the beginning of your	4	KELLY, Q.C.	:
5		analysis?	5	Q.	Exactly.
6	DR. BOOTH:	•	6	DR. BOOTH:	•
1 7	A.	That's correct.	7	Q.	I see no change in the relative risk of
8	KELLY, Q.C.	:	8		Canadian utilities.
9	Q.	Right, okay. And in fact, if we pull this	9	KELLY, Q.C.	
10	ζ.	up from the last time, just to kind of set	10	Q.	Right, again a matter that the Board will
11		the stage here a bit more, if we go back to	11	ζ.	exercise its regulatory judgment on. And
12		the transcript at page 10, and go to the	12		what I want—this is what I want to set up
13		bottom of the page, you'll see where I put	13		here, is what are the apples and apples
14		the question, "My next question then is what	14		comparisons with your last testimony?
15		are you saying in relation to 2014," because	15	DR. BOOTH:	• •
16		we had a similar discussion, "because I	16	A.	To be actually honest, Mr. Kelly, it's
17		look, for example, at the consensus	17	A.	almost exactly the same as three years ago.
18		-	18	VELLY O.C.	, ,
19		forecast, Mr. McDonald," who was the Board's	19	KELLY, Q.C.	
1		cost of capital witness, "has done a nice		Q. Dr. booth:	Exactly, exactly.
20		summary in his report out through 2013 and	20		
21		2014, and he still has a 3.04 percent	21	A.	And I –
22		average," and you can read all down through	22	(9:30 a.m.)	
23		the next couple of pages. Over on page 12	23	KELLY, Q.C.	
24		you agree that that's correct. So we had	24	Q.	You and I are in substantial agreement.
25			25		
		Page 30			Page 32
1		three percent the last time looking out:	1		Let's just go forward here. "If this is
1 .		three percent the last time, looking out;			
2		today we have roughly three percent, maybe a	2		added to a 2.81 consensus forecast," so you
3		today we have roughly three percent, maybe a little bit looking out? Agreed?	2 3		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year,
1	DR. BOOTH:	today we have roughly three percent, maybe a little bit looking out? Agreed?	2		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield
3	DR. BOOTH:	today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest	2 3		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost
3 4		today we have roughly three percent, maybe a little bit looking out? Agreed?	2 3 4		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost allowance, I would judge a simple CAPM fair
3 4 5		today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest rate forecast has changed that much.	2 3 4 5		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost
3 4 5 6	A. KELLY, Q.C. Q.	today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest rate forecast has changed that much. Cokay. I agree.	2 3 4 5 6		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost allowance, I would judge a simple CAPM fair
3 4 5 6 7	A. KELLY, Q.C.	today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest rate forecast has changed that much. Cokay. I agree.	2 3 4 5 6 7		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost allowance, I would judge a simple CAPM fair return estimate for 2016 as follows." And
3 4 5 6 7 8	A. KELLY, Q.C. Q.	today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest rate forecast has changed that much. Cokay. I agree.	2 3 4 5 6 7 8		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost allowance, I would judge a simple CAPM fair return estimate for 2016 as follows." And then you set it out, and then you say below
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3 4 5 6 7 8 9 10 11	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest rate forecast has changed that much. Okay. I agree. And that's one of the problems.	2 3 4 5 6 7 8 9 10 11		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost allowance, I would judge a simple CAPM fair return estimate for 2016 as follows." And then you set it out, and then you say below that at line 13, "The average estimate of 6.08 is slightly lower, .2, than the simple average of 6.28 I used in my 2012 testimony
3 4 5 6 7 8 9 10 11 12	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest rate forecast has changed that much. Okay. I agree. And that's one of the problems. Okay. Now, let's turn next then to—bear	2 3 4 5 6 7 8 9 10 11 12		added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost allowance, I would judge a simple CAPM fair return estimate for 2016 as follows." And then you set it out, and then you say below that at line 13, "The average estimate of 6.08 is slightly lower, .2, than the simple average of 6.28 I used in my 2012 testimony simply because the forecast long Canada bond
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest rate forecast has changed that much. Okay. I agree. And that's one of the problems. Okay. Now, let's turn next then to—bear with me for one second. Let's go next to your testimony now at page 42. And here we are. If we go to the top of the page there at about line 4, you say, "I would therefore judge the going-forward utility risk premium	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DR. BOOTH: A. KELLY, Q.C.:	added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost allowance, I would judge a simple CAPM fair return estimate for 2016 as follows." And then you set it out, and then you say below that at line 13, "The average estimate of 6.08 is slightly lower, .2, than the simple average of 6.28 I used in my 2012 testimony simply because the forecast long Canada bond yield is that much lower." But adjusting for the fact that we have a 2017 test year, you actually get back to the same result, don't we? That's right. It's not much difference.
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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. BOOTH: A. KELLY, Q.C. Q.	today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest rate forecast has changed that much. Okay. I agree. And that's one of the problems. Okay. Now, let's turn next then to—bear with me for one second. Let's go next to your testimony now at page 42. And here we are. If we go to the top of the page there at about line 4, you say, "I would therefore judge the going-forward utility risk premium to be 2.25 to 3," because we have to factor in the market risk premium and beta. And your recommendations on those are essentially the same as the last time? Exactly the same.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A.	added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost allowance, I would judge a simple CAPM fair return estimate for 2016 as follows." And then you set it out, and then you say below that at line 13, "The average estimate of 6.08 is slightly lower, .2, than the simple average of 6.28 I used in my 2012 testimony simply because the forecast long Canada bond yield is that much lower." But adjusting for the fact that we have a 2017 test year, you actually get back to the same result, don't we? That's right. It's not much difference. Exactly, okay. I mean the critical thing, as I've stressed, is the—I would not regard 5½ to 6½ percent
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	today we have roughly three percent, maybe a little bit looking out? Agreed? That's correct. I don't think the interest rate forecast has changed that much. Okay. I agree. And that's one of the problems. Okay. Now, let's turn next then to—bear with me for one second. Let's go next to your testimony now at page 42. And here we are. If we go to the top of the page there at about line 4, you say, "I would therefore judge the going-forward utility risk premium to be 2.25 to 3," because we have to factor in the market risk premium and beta. And your recommendations on those are essentially the same as the last time? Exactly the same.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A.	added to a 2.81 consensus forecast," so you haven't roast this up for the 2017 year, "for the average long Canadian bond yield for 2016 and a 50-basis flotation cost allowance, I would judge a simple CAPM fair return estimate for 2016 as follows." And then you set it out, and then you say below that at line 13, "The average estimate of 6.08 is slightly lower, .2, than the simple average of 6.28 I used in my 2012 testimony simply because the forecast long Canada bond yield is that much lower." But adjusting for the fact that we have a 2017 test year, you actually get back to the same result, don't we? That's right. It's not much difference. Exactly, okay. I mean the critical thing, as I've stressed,

	18, 2016				NL Power GRA 2016
		Page 33			Page 35
1		because we're using a forecast long Canada	1		programs came in, but we were looking at a
2		yield that's not being determined by	2		schedule that the FED was talking about to
3		ordinary investors. It's being determined	3		get out of the bond buying program. Right
4		by the central banks.	4		now we have no idea when the Japanese and
5	KELLY, Q.C.	•	5		the European central banks are going to stop
6	Q.	Okay, understood. Now, then we adjust for	6		their buying programs. And we don't know
7	Q.	that one point to be sure we're comparing	7		when the FED is going to unwind the 3½
1		1	8		trillion dollars' worth of securities it's
8		apples to apples. Then you go through two			
9		adjustments that you made the last time and	9	WELLW O.C.	got.
10		the first, Dr. Booth, is the 40-basis point	10	KELLY, Q.C.	
11		adjustment that you used in 2012 for credit	11	Q.	Which is why on your analysis you're
12		spreads, and this time it's .45 percent?	12		actually doing this operation twist
13	DR. BOOTH:		13		adjustment?
14	A.	That's right.	14	DR. BOOTH:	
15	KELLY, Q.C.		15	A.	Well I'm doing it, but as you can see in my
16	Q.	Forty-five –	16		evidence, it's a lot more volatile now than
17	DR. BOOTH:		17		it was three years ago.
18	A.	Credit spreads are marginally higher.	18	KELLY, Q.C.	:
19	KELLY, Q.C.	:	19	Q.	Right.
20	Q.	Sorry?	20	DR. BOOTH:	
21	DR. BOOTH:		21	A.	And that's partly as I explained because we
22	A.	Credit spreads are marginally higher than	22		do have some problems with preferred shares
23		they were three years ago.	23		issued by banks and by resource stocks, and
24	KELLY, Q.C.		24		also because there's these rate reset
25	, (25		
		Page 34			Page 36
,	Q.	Right, and that's just a mathematical	1		preferreds where they're being reset based
	Q.	calculation?	1		
$\frac{2}{2}$	DR. BOOTH:		2 3		upon the five-year long Canada bond yield
3				VELLY O.C.	and that's now down at .68 percent.
4	A.	That's correct.	4	KELLY, Q.C.:	
5	KELLY, Q.C.		_		
1 /			5	Q.	The 1.3 percent operation twist adjustment I
6	Q.	Okay. Then you do your operation twist	6	Q.	take it is your best judgment and advice to
7	Q.	Okay. Then you do your operation twist adjustment. Correct?	6 7	Q.	take it is your best judgment and advice to the Board that you feel you can give at this
7 8	Q. DR. BOOTH:	Okay. Then you do your operation twist adjustment. Correct?	6 7 8		take it is your best judgment and advice to
7 8 9	Q. DR. BOOTH: A.	Okay. Then you do your operation twist adjustment. Correct? Yeah.	6 7 8 9	DR. BOOTH:	take it is your best judgment and advice to the Board that you feel you can give at this point in time?
7 8 9 10	Q. DR. BOOTH: A. KELLY, Q.C.	Okay. Then you do your operation twist adjustment. Correct? Yeah.	6 7 8 9 10	DR. BOOTH:	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct.
7 8 9 10 11	Q. DR. BOOTH: A.	Okay. Then you do your operation twist adjustment. Correct? Yeah. And the last time you had 80 basis points,	6 7 8 9 10 11	DR. BOOTH: A. KELLY, Q.C.:	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct.
7 8 9 10	Q. DR. BOOTH: A. KELLY, Q.C. Q.	Okay. Then you do your operation twist adjustment. Correct? Yeah. And the last time you had 80 basis points, and this time you have 130 basis points?	6 7 8 9 10 11 12	DR. BOOTH:	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct. In other words you've tried to use your best
7 8 9 10 11	Q. DR. BOOTH: A. KELLY, Q.C.	Okay. Then you do your operation twist adjustment. Correct? Yeah. And the last time you had 80 basis points, and this time you have 130 basis points?	6 7 8 9 10 11	DR. BOOTH: A. KELLY, Q.C.:	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct.
7 8 9 10 11 12	Q. DR. BOOTH: A. KELLY, Q.C. Q.	Okay. Then you do your operation twist adjustment. Correct? Yeah. And the last time you had 80 basis points, and this time you have 130 basis points? Well, the last year I had 80 basis points	6 7 8 9 10 11 12	DR. BOOTH: A. KELLY, Q.C.:	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct. In other words you've tried to use your best
7 8 9 10 11 12 13	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	Okay. Then you do your operation twist adjustment. Correct? Yeah. And the last time you had 80 basis points, and this time you have 130 basis points?	6 7 8 9 10 11 12 13	DR. BOOTH: A. KELLY, Q.C.: Q.	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct. In other words you've tried to use your best
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7 8 9 10 11 12 13 14 15	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	Okay. Then you do your operation twist adjustment. Correct? Yeah. And the last time you had 80 basis points, and this time you have 130 basis points? Well, the last year I had 80 basis points and was reasonably comfortable with it.	6 7 8 9 10 11 12 13 14 15	DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH:	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct. In other words you've tried to use your best judgment to get to that number? That's right. I've tried to look at the
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7 8 9 10 11 12 13 14 15 16 17 18	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	Okay. Then you do your operation twist adjustment. Correct? Yeah. And the last time you had 80 basis points, and this time you have 130 basis points? Well, the last year I had 80 basis points and was reasonably comfortable with it. This time I have 130 and I'm very uncomfortable with it. Not quite as certain, but -	6 7 8 9 10 11 12 13 14 15 16 17	DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH:	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct. In other words you've tried to use your best judgment to get to that number? That's right. I've tried to look at the current level of bond yields, two percent, and they're clearly incredibility low.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	Okay. Then you do your operation twist adjustment. Correct? Yeah. And the last time you had 80 basis points, and this time you have 130 basis points? Well, the last year I had 80 basis points and was reasonably comfortable with it. This time I have 130 and I'm very uncomfortable with it. Not quite as certain, but -	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH:	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct. In other words you've tried to use your best judgment to get to that number? That's right. I've tried to look at the current level of bond yields, two percent, and they're clearly incredibility low. Anybody buying Government Canada bonds at two percent for 50 years is taking what we call—let's see. Instead of a risk-free
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Okay. Then you do your operation twist adjustment. Correct? Yeah. And the last time you had 80 basis points, and this time you have 130 basis points? Well, the last year I had 80 basis points and was reasonably comfortable with it. This time I have 130 and I'm very uncomfortable with it. Not quite as certain, but - I'm not quite as certain because—and that's	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DR. BOOTH: A. KELLY, Q.C.: Q. DR. BOOTH: A.	take it is your best judgment and advice to the Board that you feel you can give at this point in time? That's correct. In other words you've tried to use your best judgment to get to that number? That's right. I've tried to look at the current level of bond yields, two percent, and they're clearly incredibility low. Anybody buying Government Canada bonds at two percent for 50 years is taking what we call—let's see. Instead of a risk-free rate, it's a rate-free risk.
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дрп	11 6, 2010		_		INL FOWEI GRA 2010
		Page 37			Page 39
1	A.	Because the real return is negative and	1	Q.	Right, 20 basis points on 7.83, because I
2		there's a huge amount of uncertainty	2		want the Board to understand what's the
3		surrounding that. So it's a question of	3		comparable with 2012 – 2013. Now then you
4		what is a reasonable rate of return that	4		say, "Taking into account the current yields
5		people are thinking about in terms of a risk	5		on utility preferred shares," which you've
6		return trade-off. You add 130 basis points	6		just mentioned, "and the difficulty in
7		to 2 percent, you're at 3.3 percent.	7		making a direct transfer from preferred
8	KELLY, Q.C.	* · · · · · · · · · · · · · · · · · · ·	8		shares to common equity, I would tend to be
9	Q.	Okay. Now, so from there you then complete	9		conservative and recommend the same 7.5
10	Q.	out your—can I call it an adjusted CAPM	10		percent as in 2012." Now, can I stop you
11		analysis?	11		there? You've already told us you used your
12	DR. BOOTH:	•	12		best judgment to get to 1.3 and the .45 is
13	A.		13		
14	A.	No, it's not a CAPM analysis at all. It's a	ı		simply math. Why do you adjust it back
ı	VELLY O.C.	risk premium analysis.	14		down? Because you've used judgment to make
15	KELLY, Q.C.		15		your adjustments and now you're adjusting
16	Q.	A risk premium, okay. I just—I don't want	16	DR ROOTH	your judgment.
17		to be offside in whatever language you're	17	DR. BOOTH:	D 41 10 1 1 41 1 1
18	DD DOOTH	using.	18	A.	Because the—if we look at the graph on the
19	DR. BOOTH:		19		previous page, we can see that in 2012 we
20	A.	No, no, that's fine. The—I think at the	20		had basically a spread that was pretty
21		moment the CAPM is, as I've said, is giving	21		constant throughout 2012. It was around
22		unreasonably low estimates, but you can	22		about 75, 80 basis points. So I was
23		couch any estimate in terms of the risk	23		reasonably comfortable with that. In 2013
24		premium.	24		we had interest rates going up and the
25			25		
23		Page 38	25		Page 40
1	KELLY, Q.C.	•	1		Page 40 spread dropped down, and in fact our—before
1 2	KELLY, Q.C. Q.	•			
1		: I don't want to get into a semantic debate	1		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a
1 2		:	1 2		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were
1 2 3 4	Q. DR. BOOTH:	: I don't want to get into a semantic debate is simply my point.	1 2 3 4		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest
1 2 3 4 5	Q. DR. BOOTH: A.	I don't want to get into a semantic debate is simply my point. Okay.	1 2 3		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the
1 2 3 4	Q. DR. BOOTH: A. KELLY, Q.C.	I don't want to get into a semantic debate is simply my point. Okay.	1 2 3 4 5		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People
1 2 3 4 5 6 7	Q. DR. BOOTH: A.	I don't want to get into a semantic debate is simply my point. Okay. Now let's go to page 51 so we understand	1 2 3 4 5 6 7		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People were seeing interest rates increasing. And
1 2 3 4 5 6 7 8	Q. DR. BOOTH: A. KELLY, Q.C.	I don't want to get into a semantic debate is simply my point. Okay. Now let's go to page 51 so we understand where this kind of goes. Having made your	1 2 3 4 5 6 7 8		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People were seeing interest rates increasing. And then, starting in 2015, we have this huge
1 2 3 4 5 6 7 8 9	Q. DR. BOOTH: A. KELLY, Q.C.	I don't want to get into a semantic debate is simply my point. Okay. Now let's go to page 51 so we understand where this kind of goes. Having made your two adjustments on the same methodology that	1 2 3 4 5 6 7 8 9		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People were seeing interest rates increasing. And then, starting in 2015, we have this huge increase and huge volatility. And if we go
1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH: A. KELLY, Q.C.	I don't want to get into a semantic debate is simply my point. Okay. Now let's go to page 51 so we understand where this kind of goes. Having made your two adjustments on the same methodology that you did from 2012, you come up with a range	1 2 3 4 5 6 7 8 9		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People were seeing interest rates increasing. And then, starting in 2015, we have this huge increase and huge volatility. And if we go from one month to the next, we see swings of
1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH: A. KELLY, Q.C.	I don't want to get into a semantic debate is simply my point. Okay. Now let's go to page 51 so we understand where this kind of goes. Having made your two adjustments on the same methodology that you did from 2012, you come up with a range at lines 4 to 5 of 7.31 to 8.36 and you say,	1 2 3 4 5 6 7 8 9 10		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People were seeing interest rates increasing. And then, starting in 2015, we have this huge increase and huge volatility. And if we go from one month to the next, we see swings of 50, 60 basis points. So the problem is how
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1 2 3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH: A. KELLY, Q.C. Q.	I don't want to get into a semantic debate is simply my point. Okay. Now let's go to page 51 so we understand where this kind of goes. Having made your two adjustments on the same methodology that you did from 2012, you come up with a range at lines 4 to 5 of 7.31 to 8.36 and you say,	1 2 3 4 5 6 7 8 9 10 11 12 13		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People were seeing interest rates increasing. And then, starting in 2015, we have this huge increase and huge volatility. And if we go from one month to the next, we see swings of 50, 60 basis points. So the problem is how much reliance am I going to be—place on something that has resulted in huge
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	I don't want to get into a semantic debate is simply my point. Okay. Now let's go to page 51 so we understand where this kind of goes. Having made your two adjustments on the same methodology that you did from 2012, you come up with a range at lines 4 to 5 of 7.31 to 8.36 and you say, "This would indicate a 2016 fair ROE of 7.83 percent for a benchmark utility," correct? That's correct. Right. Now, can I stop you there? In order to make that apples to apples again to adjust for the 2017, I have to add on 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People were seeing interest rates increasing. And then, starting in 2015, we have this huge increase and huge volatility. And if we go from one month to the next, we see swings of 50, 60 basis points. So the problem is how much reliance am I going to be—place on something that has resulted in huge volatility swing during 2015. So when I say conservative, I'm saying when I look at the spread here, I'm not as comfortable looking at preferred shares and going from preferred shares to common shares as I was three years ago. Three years ago it was a reasonably
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	I don't want to get into a semantic debate is simply my point. Okay. Now let's go to page 51 so we understand where this kind of goes. Having made your two adjustments on the same methodology that you did from 2012, you come up with a range at lines 4 to 5 of 7.31 to 8.36 and you say, "This would indicate a 2016 fair ROE of 7.83 percent for a benchmark utility," correct? That's correct. Right. Now, can I stop you there? In order to make that apples to apples again to adjust for the 2017, I have to add on 20 more basis points, so that would take us to	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People were seeing interest rates increasing. And then, starting in 2015, we have this huge increase and huge volatility. And if we go from one month to the next, we see swings of 50, 60 basis points. So the problem is how much reliance am I going to be—place on something that has resulted in huge volatility swing during 2015. So when I say conservative, I'm saying when I look at the spread here, I'm not as comfortable looking at preferred shares and going from preferred shares to common shares as I was three years ago. Three years ago it was a reasonably stable relationship. Now there's extreme
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	I don't want to get into a semantic debate is simply my point. Okay. Now let's go to page 51 so we understand where this kind of goes. Having made your two adjustments on the same methodology that you did from 2012, you come up with a range at lines 4 to 5 of 7.31 to 8.36 and you say, "This would indicate a 2016 fair ROE of 7.83 percent for a benchmark utility," correct? That's correct. Right. Now, can I stop you there? In order to make that apples to apples again to adjust for the 2017, I have to add on 20	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	VELLY O C	spread dropped down, and in fact our—before I think it was Hydro Quebec I represented a 40 basis point adjustment because we were getting to the situation where interest rates were increasing and the impact of the U.S. bond buying was dissipating. People were seeing interest rates increasing. And then, starting in 2015, we have this huge increase and huge volatility. And if we go from one month to the next, we see swings of 50, 60 basis points. So the problem is how much reliance am I going to be—place on something that has resulted in huge volatility swing during 2015. So when I say conservative, I'm saying when I look at the spread here, I'm not as comfortable looking at preferred shares and going from preferred shares to common shares as I was three years ago. Three years ago it was a reasonably stable relationship. Now there's extreme volatility in that relationship.
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1 1011	18, 2016				NL Power GRA 2016
		Page 41			Page 43
1		way? So maybe 1.3 for operation twist	1		what we call rate resets. They reset the
2		should be 1.2, but maybe equally it could be	2		dividend based, every five years, based upon
3		1.5? In other words, you've already used	3		the five-year government of Canada bond
4		your best judgment to get to 1.3. It	4		rate. Since the spring and the drop in the
1			ı		• • • • •
5		doesn't make logical sense then to be making	5		overnight rate, we've seen people looking at
6		an adjustment to your judgment.	6		those preferred shares, saying, "Those are
7	DR. BOOTH:		7		going to be reset at a premium over .68
8	A.	Oh it does, Mr. Kelly. All of this is based	8		percent. I'm holding them now, but the
9		upon trying to figure out what is going on	9		dividends are going to be dramatically cut."
10		in the government bond market and what's	10		So the price of those rate reset preferreds
11		going to happen when the bond buying	11		is dropped and their dividend yields have
12		programs in Europe and Japan stop and when	12		gone up. So a significant amount of that
13		the U.S. unwinds its program?	13		volatility I suspect, which is the index on
14	KELLY, Q.C.		14		the Toronto Stock Exchange, I suspect is
15	Q.	Is this the point that the chair of the BCUC	15		being driven by these rate reset preferred
16	Q.	was making to you that you referred to at	16		shares. And you can see that when you
1			ı		•
17		the end of your opening yesterday that	17	WELLW O.C.	actually look at Fortis's preferred shares.
18	DD DOOTH	you're using a lot of judgment, Dr. Booth?	18	KELLY, Q.C.:	
19	DR. BOOTH:		19	Q.	Your comment about volatility is kind of
20	A.	When the BCUC, one of the panel members	20		interesting though, isn't it? Because
21		said—I can't remember the exact quote, but	21		you've said to the Board before that, well,
22		"Is judgment more important at this point in	22		the market is telling us what people—what
23		time?" And I said, "Yes."	23		investors think it is today. So why
24	KELLY, Q.C.		24		wouldn't we look at that market? You've
25			25		
1					
-		Page 42			Page 44
1	0.	Page 42 Yes.			Page 44 applied your judgment at 1.3 percent. Why
1	Q. DR BOOTH:	Page 42 Yes.	1		applied your judgment at 1.3 percent. Why
1 2	DR. BOOTH:	Yes.	1 2		applied your judgment at 1.3 percent. Why does volatility suddenly become an issue on
1 2 3	-	Yes. There's absolutely no question judgment is	1 2 3	DR BOOTH-	applied your judgment at 1.3 percent. Why
1 2 3 4	DR. BOOTH:	Yes. There's absolutely no question judgment is more important now than I would say almost	1 2 3 4	DR. BOOTH:	applied your judgment at 1.3 percent. Why does volatility suddenly become an issue on which you have to adjust your judgment?
1 2 3 4 5	DR. BOOTH:	Yes. There's absolutely no question judgment is more important now than I would say almost any time I've been testifying for the last	1 2 3 4 5	DR. BOOTH: A.	applied your judgment at 1.3 percent. Why does volatility suddenly become an issue on which you have to adjust your judgment? Well, because the range could be anywhere
1 2 3 4 5 6	DR. BOOTH:	Yes. There's absolutely no question judgment is more important now than I would say almost any time I've been testifying for the last 30 years.	1 2 3 4 5 6		applied your judgment at 1.3 percent. Why does volatility suddenly become an issue on which you have to adjust your judgment? Well, because the range could be anywhere from 100 to 150 basis points for that, that
1 2 3 4 5 6 7	DR. BOOTH: A. KELLY, Q.C.	Yes. There's absolutely no question judgment is more important now than I would say almost any time I've been testifying for the last 30 years.	1 2 3 4 5 6 7		applied your judgment at 1.3 percent. Why does volatility suddenly become an issue on which you have to adjust your judgment? Well, because the range could be anywhere from 100 to 150 basis points for that, that adjustment. And in fact, if you go back
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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	DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	Yes. There's absolutely no question judgment is more important now than I would say almost any time I've been testifying for the last 30 years. Okay. We have never ever had a situation where we've had this massive amount of intervention in government bond markets around the world which I think has made the risk premium models suspect, simply because they may be the yields that exist in the market, but I do not think they're fair basis for setting a risk premium model. Okay, now — So there's that huge amount of uncertainty, and that clearly—and as I said, Mr. Kelly,	1 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. BOOTH:	applied your judgment at 1.3 percent. Why does volatility suddenly become an issue on which you have to adjust your judgment? Well, because the range could be anywhere from 100 to 150 basis points for that, that adjustment. And in fact, if you go back into the spring, and it was basically 85 basis points. That has been a hugely volatile adjustment. And as I said, all I'm saying is that when I look at those preferred shares, those rate reset five-year preferred shares are causing a lot of problems in the Toronto Stock Exchange index. Okay. Which has a significant component of five-year rate reset preferred shares. So all I'm saying is thethree years ago I said to the Board, "Accept an automatic adjustment

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		Page 45			Page 47
1		percent." I'm looking at what's going on in	1	A.	That's right, but you weren't the only one.
2		the government bond market. I don't think	2		Most utilities across Canada said, "Look,
3		we're going to see an increase in interest	3		how can this be? How can you give us a
4		rates for the next two years.	4		lower ROE when our borrowing cost is going
1	KELLY, Q.C.	· ·	5		up?"
\int_{0}^{5}				VELLY O.C.	*
6	Q. DR. BOOTH:	Yes.	6	KELLY, Q.C.	
7		In fact much shire for the most three on favor	7	Q.	We're glad to see the finance professors are
8	A.	In fact probably for the next three or four	8		catching up to the utility industry.
9	VELLY O.C.	years.	9	DD DOOTH	Anyway, can I -
10	KELLY, Q.C.		10	DR. BOOTH:	No. 4b-4 is not assumed Mr. IV-lles And
11	Q.	Which is why you're not—now not recommending	11	A.	No, that is not correct, Mr. Kelly. And
12	DD DOOTH	an automatic adjustment mechanism?	12		that is a facetious remark. The -
13	DR. BOOTH:	71 VIII 7 11V 14 B 1	13	KELLY, Q.C.	
14	A.	I don't think—I wouldn't recommend the Board	14	Q.	Well, we're –
15		goes to an automatic adjustment mechanism.	15	DR. BOOTH:	
16	KELLY, Q.C.		16	A.	As I said, in 2009 there was a period of
17	Q.	Yes. We got there in 2009 with that	17		about six months when the bond spreads
18		analysis, but -	18		increased. The A borrowing cost went up and
19	DR. BOOTH:		19		the ROEs were going down because they were
20	A.	Yeah, well most boards didn't. The Board	20		tied to the long Canada bonds yield. At
21		came back. 2009 was huge uncertain year, as	21		that time I said the ROE—the adjustment
22		you know, Mr. Kelly, but the—and the	22		mechanisms are fine because that was a
23		conditions in 2009 were completely different	23		temporary phenomenon. And it was a
24		from what they are not.	24		temporary phenomenon. And in 2009 through
25			25		
		Page 46			Page 48
1	KELLY, Q.C	<u> </u>	1		Page 48 to 2012 long Canada bond yields came down,
1 2	KELLY, Q.C Q.	<u> </u>	1 2		<u> </u>
1 2 3		.: Okay.	1		to 2012 long Canada bond yields came down, and A bond yields came down. So the
1	Q.	.: Okay.	2		to 2012 long Canada bond yields came down,
3	Q. DR. BOOTH	:: Okay. : The reason why the Board's –	2 3		to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 –
3 4	Q. DR. BOOTH A. KELLY, Q.C	:: Okay. : The reason why the Board's – ::	2 3 4		to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 – 2009, has got nothing to do with what's
3 4 5 6	Q. DR. BOOTH A.	Cokay. The reason why the Board's – I don't want to bog down over automatic	2 3 4 5	KELLY, O.C.	to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 – 2009, has got nothing to do with what's going on at the moment.
3 4 5 6 7	Q. DR. BOOTH A. KELLY, Q.C Q.	.: Okay. : The reason why the Board's – .: I don't want to bog down over automatic adjustment.	2 3 4 5 6 7	KELLY, Q.C. O.	to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 – 2009, has got nothing to do with what's going on at the moment.
3 4 5 6 7 8	Q. DR. BOOTH A. KELLY, Q.C Q. DR. BOOTH	:: Okay. : The reason why the Board's – :: I don't want to bog down over automatic adjustment.	2 3 4 5		to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 – 2009, has got nothing to do with what's going on at the moment.
3 4 5 6 7 8 9	Q. DR. BOOTH A. KELLY, Q.C Q.	Cokay. The reason why the Board's — I don't want to bog down over automatic adjustment. No, but you made a comment there and I'll	2 3 4 5 6 7 8 9	Q. DR. BOOTH:	to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 – 2009, has got nothing to do with what's going on at the moment. Okay.
3 4 5 6 7 8 9 10	Q. DR. BOOTH A. KELLY, Q.C Q. DR. BOOTH	Okay. The reason why the Board's — I don't want to bog down over automatic adjustment. No, but you made a comment there and I'll just say that the reason why boards—some	2 3 4 5 6 7 8 9 10	Q.	to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 – 2009, has got nothing to do with what's going on at the moment. Okay. What's going on at the moment is something
3 4 5 6 7 8 9 10 11	Q. DR. BOOTH A. KELLY, Q.C Q. DR. BOOTH	Cokay. The reason why the Board's — I don't want to bog down over automatic adjustment. No, but you made a comment there and I'll	2 3 4 5 6 7 8 9 10 11	Q. DR. BOOTH:	to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 – 2009, has got nothing to do with what's going on at the moment. Okay. What's going on at the moment is something that's entirely different in the capital
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3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH A. KELLY, Q.C Q. DR. BOOTH	Okay. The reason why the Board's — I don't want to bog down over automatic adjustment. No, but you made a comment there and I'll just say that the reason why boards—some boards jettison in the automatic adjustment mechanism was because the ROE and the borrowing rate for utilities were going in	2 3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH: A.	to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 – 2009, has got nothing to do with what's going on at the moment. Okay. What's going on at the moment is something that's entirely different in the capital markets which is the massive bond buying on the part of the central banks.
3 4 5 6 7 8 9 10 11 12 13 14	Q. DR. BOOTH A. KELLY, Q.C Q. DR. BOOTH A.	Okay. The reason why the Board's — I don't want to bog down over automatic adjustment. No, but you made a comment there and I'll just say that the reason why boards—some boards jettison in the automatic adjustment mechanism was because the ROE and the borrowing rate for utilities were going in opposite directions. We could -	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. DR. BOOTH: A. KELLY, Q.C.	to 2012 long Canada bond yields came down, and A bond yields came down. So the underlying premise that caused the problems in the adjustment mechanism back in 2008 – 2009, has got nothing to do with what's going on at the moment. Okay. What's going on at the moment is something that's entirely different in the capital markets which is the massive bond buying on the part of the central banks.
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		Page 49			Page 51
1		further, but what I want –	1		your adjustment is, "I would also note that
2	DR. BOOTH	:	2		allowed ROEs in both Alberta and Quebec have
3	A.	You just did.	3		been lowered since 2012". Now that doesn't
4	KELLY, Q.C	•	4		seem to me to be an observation that a cost
5	Q.	I do want to come back to this point, and	5		of capital expert should be making to reduce
6	ζ.	that we left from. And Samantha, can we	6		an analysis because that introduces
7		come back to Dr. Booth's testimony the last	7		circularity, doesn't it? A cost of capital
8		time at page 56, lines 20 to 21? No, this	8		expert is supposed to give the Board best
9		should be his –	9		assessment of what markets are saying, not
10	MS. PIERCE		10		to be driven by what boards have already
11	Q.	Oh you want 2012?	11		done. So my first problem I have with that
12	KELLY, Q.C	•	12		reason for your adjustment is circularity.
13	Q.	2012 testimony. Sorry, I wasn't clear.	13		I'll give you an opportunity to agree or
14	Q.	There we go, the bottom of the page. Now	14		not?
15		Dr. Booth, this is the analysis that you had	15	DR. BOOTH:	not:
16		did—that you did in 2012, and I just want to	16	A.	I would agree with that, it's the
1		•	17	A.	responsibility of an expert witness to
17		set this up for the Board. The last time	1		
18		you made your adjustments based upon your	18		inform the Board, and to offer unbiased
19		judgment, and starting with the 3 percent	19		opinion and judgment to the Board as to what
20		for the forecast interest rate, adjusted for	20	WELLW O.C.	is a fair ROE.
21		your two adjustments and came up with the	21	KELLY, Q.C.	
22		estimate of 6.95 percent to 8 percent, and	22	Q.	But you wouldn't make your adjustment based
23		then you said, "Overall, this would indicate	23		upon what other regulators have done surely,
24		a 2013 a fair ROE of 7.50," which is halfway	24		it's circular?
25			25		
-			<u> </u>		
		Page 50			Page 52
1		Page 50 in between.	1	DR. BOOTH:	Page 52
1 2	DR. BOOTH:	_	1 2	DR. BOOTH:	Not really, it's circular in the sense that
1	DR. BOOTH:	_	1		-
2		in between.	1 2		Not really, it's circular in the sense that they look at exactly the same evidence, but regulators look at a variety of issues and
2 3	A.	in between. That's correct.	1 2 3		Not really, it's circular in the sense that they look at exactly the same evidence, but
2 3 4	A. (9:45 a.m.)	in between. That's correct.	1 2 3 4		Not really, it's circular in the sense that they look at exactly the same evidence, but regulators look at a variety of issues and
2 3 4 5	A. (9:45 a.m.) KELLY, Q.C.	in between. That's correct.	1 2 3 4 5		Not really, it's circular in the sense that they look at exactly the same evidence, but regulators look at a variety of issues and they come on with an informed judgment as to
2 3 4 5 6	A. (9:45 a.m.) KELLY, Q.C.	in between. That's correct. Right. So what you've done in this time,	1 2 3 4 5 6		Not really, it's circular in the sense that they look at exactly the same evidence, but regulators look at a variety of issues and they come on with an informed judgment as to what is fair and reasonable, and all I'm
2 3 4 5 6 7	A. (9:45 a.m.) KELLY, Q.C.	in between. That's correct. Right. So what you've done in this time, Samantha, if we can now come back to page 51	1 2 3 4 5 6 7		Not really, it's circular in the sense that they look at exactly the same evidence, but regulators look at a variety of issues and they come on with an informed judgment as to what is fair and reasonable, and all I'm doing here is I'm not changing my
2 3 4 5 6 7 8	A. (9:45 a.m.) KELLY, Q.C.	in between. That's correct. Right. So what you've done in this time, Samantha, if we can now come back to page 51 of Dr. Booth's current testimony, is we now	1 2 3 4 5 6 7 8		Not really, it's circular in the sense that they look at exactly the same evidence, but regulators look at a variety of issues and they come on with an informed judgment as to what is fair and reasonable, and all I'm doing here is I'm not changing my recommendation. All I'm saying is in the
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2 3 4 5 6 7 8 9 10	A. (9:45 a.m.) KELLY, Q.C.	in between. That's correct. Right. So what you've done in this time, Samantha, if we can now come back to page 51 of Dr. Booth's current testimony, is we now have this adjustment to the judgment added on. In other words, there's a component in	1 2 3 4 5 6 7 8 9		Not really, it's circular in the sense that they look at exactly the same evidence, but regulators look at a variety of issues and they come on with an informed judgment as to what is fair and reasonable, and all I'm doing here is I'm not changing my recommendation. All I'm saying is in the end, "However, I note that consistent with Concentric's review of allowed ROEs prepared
2 3 4 5 6 7 8 9 10	A. (9:45 a.m.) KELLY, Q.C.	in between. That's correct. Right. So what you've done in this time, Samantha, if we can now come back to page 51 of Dr. Booth's current testimony, is we now have this adjustment to the judgment added on. In other words, there's a component in your current analysis different than in	1 2 3 4 5 6 7 8 9 10		Not really, it's circular in the sense that they look at exactly the same evidence, but regulators look at a variety of issues and they come on with an informed judgment as to what is fair and reasonable, and all I'm doing here is I'm not changing my recommendation. All I'm saying is in the end, "However, I note that consistent with Concentric's review of allowed ROEs prepared for the Canadian Gas Association, the
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		Page 53			Page 55
1	KELLY, Q.C	:	1	A.	No, not really. I'll explain the reason for
2	Q.	Well, you've gone from 783 to –	2		that is there's the evidentiary basis and
3	DR. BOOTH		3		then there's the timing of the decision.
4	A.	750 to 783.	4		This Board has got quicker decisions than
5	KELLY, Q.C	.:	5		the Alberta Utilities Commission, which
6	Q.	To 750.	6		takes forever to come to their decision, and
1 7	DR. BOOTH	:	7		the BCUC seems to take a long time, but in
8	A.	In terms of that 750 to 783, as I thought	8		terms of the sequence this year, I think
9		we've established, Mr. Kelly, the major	9		it's almost exactly the same as three years
10		reason for that is the adjustment for bond	10		ago. The BCUC had its hearing a month ago,
11		buying from 80 to 130, and as I've	11		we've got a hearing now in Newfoundland, and
12		indicated, I'm very uncomfortable with that	12		we're expecting to have a hearing in Alberta
13		because of the volatility of the preferred	13		May/June. So basically the evidentiary
14		spreads.	14		basis for those hearings is not that
15	KELLY, Q.C	1	15		different. Mr. Coyne's evidence, for
16	Q.	Right, because the other problem in looking	16		example, is there's a 14 day difference
17	Q.	at what regulators do, is it begs the	17		between this Board and the BCUC. So the
18		question of who has led the list lower, and	18		evidentiary basis on which the boards make
19		if we go for a moment to PUB-NP-034,	19		their decisions very, very similar. The
20		Samantha, we'll come back to this page	20		only difference is how long it takes the
21		again, you see these are the current allowed	21		boards to get the decisions out and the
$\begin{vmatrix} 21\\22\end{vmatrix}$		returns, correct?	$\begin{vmatrix} 21\\22\end{vmatrix}$		hearing. I regard them all as being exactly
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$	DR. BOOTH		23		the same.
23	DR. ВООТП А.		24		
25	A.	I think so, yes.	25	KELLY, Q.C.:	
1 43			25		
		Daga 54			Daga 56
	VELLY O.C.	Page 54	1	0	Page 56
1	KELLY, Q.C.:	•	1	Q.	Samantha, can you put back up PUB-NP-034,
1 2	Q.	Samantha, can you pop up NP-CA-82? Here we	2	Q.	Samantha, can you put back up PUB-NP-034, and these are all the rates which are
3	Q.	Samantha, can you pop up NP-CA-82? Here we go. Now if we can scroll up the table a	2 3	Q.	Samantha, can you put back up PUB-NP-034, and these are all the rates which are currently in effect, and, in fact, Ontario's
3 4	Q.	Samantha, can you pop up NP-CA-82? Here we go. Now if we can scroll up the table a little bit, you'll see in – if we go to the	2 3 4	Q.	Samantha, can you put back up PUB-NP-034, and these are all the rates which are currently in effect, and, in fact, Ontario's rate is a 2016 rate just established last
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<u> </u>	18, 2016				NL Power GRA 2016
		Page 57			Page 59
1		came out in September/October.	1	Q.	More than that, yeah.
2	KELLY, Q.C.	•	2	DR. BOOTH:	, ,
$\frac{2}{3}$		So if we look at that, British Columbia and	3	A.	Decays and of the things the OED did was
1	Q.	•	l	A.	Because one of the things the OEB did was
4		Alberta are now under review, and we'll wait	4		give a standardized cost of capital in the
5		and see which way they go.	5		hope that they would force some mergers and
6	DR. BOOTH:		6		acquisitions to reduce the number of tiny
1 7	A.	That's correct.	7		little distribution companies.
8	KELLY, Q.C.		8	KELLY, Q.C.	*
1			ı	, ,	
9	Q.	But Ontario, Prince Edward Island, and Nova	9	Q.	There's a large number of utilities in
10		Scotia, are all above where this Board	10		Ontario with the allowed ROE of 9.19 percent
11		currently is?	11		for 2016?
12	DR. BOOTH:		12	DR. BOOTH:	
13	A.	That's correct. I mean, when you look at	13	A.	That's right, and they've all got – well,
14		this, they're investor owned electric	14		even further than that, Mr. Kelly, they've
15		utility companies, but FortisBC Electric has	15		got deemed common equity ratios, deemed cost
1			l		
16		generation, Nova Scotia is an integrated	16		of debt, deemed short term borrowing costs,
17		electrical utility that has complete	17		and a deemed ROE, because most of them,
18		generation, so you're not comparing like	18		their financial structures don't look
19		with like. The T & D is in Alberta, BC and	19		anything like normal utilities because
20		Nova Scotia are not T & D, Prince Edward	20		they're municipally owned. I'd also point
21		Island, that's the Government – so I'm not	21		out there that you're probably aware the
1			ı		
22		going to comment on that except for the fact	22		Ontario Government, not only does it have a
23		they were supposed to be having a hearing	23		huge budget deficit, but its selling off
24		and they didn't have a hearing.	24		Hydro One, and it's selling off Hydro One at
25			25		
123			1 22		
23		Page 58	25		Page 60
1	KELLY O.C	Page 58			Page 60
1	KELLY, Q.C.	:	1		a huge premium over its book value. At the
1 2	KELLY, Q.C. Q.	: Ontario covers a whole range of utilities,	1 2		a huge premium over its book value. At the same time, it's decided not to review the
1	Q.	Ontario covers a whole range of utilities, doesn't it?	1 2 3		a huge premium over its book value. At the same time, it's decided not to review the ROE, so I'll leave it to you to work out
1 2		Ontario covers a whole range of utilities, doesn't it?	1 2		a huge premium over its book value. At the same time, it's decided not to review the
1 2 3	Q.	Ontario covers a whole range of utilities, doesn't it?	1 2 3		a huge premium over its book value. At the same time, it's decided not to review the ROE, so I'll leave it to you to work out
1 2 3 4 5	Q. DR. BOOTH:	Ontario covers a whole range of utilities, doesn't it? That's correct. Ontario is the outlier both	1 2 3 4 5	KELLY, O.C.	a huge premium over its book value. At the same time, it's decided not to review the ROE, so I'll leave it to you to work out what the motivation of the Provincial Government is in Ontario.
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		Page 61			Page 63
1		we had a discussion which we agreed that we	1		adjustment mechanism, whereas now I'm just
2		need to add 20 basis points to make this	2		recommending 7.5 percent because I do not
3		apply to 2017. So instead of 750 in your	3		have any faith in the forecasters and the
4		analysis, is it 770?	4		increase in interest rates. It's just
5	DR. BOOTH:	•	5		incompatible with the way in which the
6	A.	No. What I said in –	6		capital markets are working.
7	KELLY, Q.C.		7	KELLY, Q.C.:	•
8	Q.	So you get the same result of 750 regardless	8	, ,	You're saying there's more uncertainty out
9		of whether you look at a 2016 test year or a	9	-	there, but we still have to do a risk
10		2017 test year?	10		premium analysis. So if I take what you've
11	DR. BOOTH:	•	11		presented yesterday in your opening, and I
12	A.	I would say that if you believe the	12		adjust the base forecast to 3 instead of
13		forecasts which have been consistently wrong	13		2.81, and do the math, I get 8.03 on the
14		for the last six years, you're entirely	14		screen, 20 basis, 8.04.
15		correct. As I've said, and I've said	15	DR. BOOTH:	2010011, 20 04010, 010 11
16		repeatedly, I'm getting extremely	16		If you do that, that's – look, I have no
17		pessimistic about the forecasts that are	17		problem with your math, Mr. Kelly, and, in
18		coming out of all the economic forecasters.	18		fact, as I said three years ago, I
19		They're simply not believed by the capital	19		recommended a fixed rate, I think, of 8.2
20		market. If it was actually believed that	20		percent because I was taking the forecast
21		interest rates would go from 2 percent to	21		and I actually believed that we would end up
22		3.3 percent over the next two years, there	22		having increasing interest rates. Now I'm
23		would be huge losses in the bond market	23		extremely pessimistic that that's going to
24		because as interest rates go up, the value	24		happen. So the major change over the last
25		occurse as interest rates go up, the value	25		nuppen. So the major change over the last
		Page 62			Page 64
1		of bonds go down, and to be absolutely	1		three years is I've become extremely
$\frac{1}{2}$		honest, I think this Board had it right	2		pessimistic about future interest rate
$\frac{2}{3}$		several years ago where you used the	3		increases.
4		existing long Canada bond yield because that	4	KELLY, Q.C.	
5		is the best market expectation where the	5	Q.	Dr. Booth, you have been probably the
6		long Canada bond yield is going to be next	6	ζ.	principal proponent in Canada of the risk
7		year.	7		premium analysis, and this is the
8	KELLY, Q.C.	•	8		methodology that you've used, correct?
9	Q.	But I –	9	DR. BOOTH:	memodology that you ve used, correct:
10	DR. BOOTH:	But1	10	A.	I'm very flattered that you said I'm the
11	A.	And then the Board moved to a forecast. The	11	11.	•
12	1 1.				principal proponent i wollion i nave saio - i
1 1 2					principal proponent. I wouldn't have said that
13	KELLY O.C.	forecasts have been consistently wrong.	12	KELLY O.C.	that.
13	KELLY, Q.C.	forecasts have been consistently wrong.	12 13	KELLY, Q.C.	that.
14	KELLY, Q.C. Q.	forecasts have been consistently wrong. To get to your 3 percent, I used your	12 13 14	KELLY, Q.C. Q.	that. : Well, I think you're well recognized as the
14 15		forecasts have been consistently wrong. : To get to your 3 percent, I used your surrebuttal updated RBC forecast for those	12 13 14 15	Q.	that.
14 15 16		forecasts have been consistently wrong. To get to your 3 percent, I used your surrebuttal updated RBC forecast for those 20 extra basis points, so Samantha, can we	12 13 14 15 16	Q. (10:00 a.m.)	that. : Well, I think you're well recognized as the
14 15 16 17		forecasts have been consistently wrong. To get to your 3 percent, I used your surrebuttal updated RBC forecast for those 20 extra basis points, so Samantha, can we pull up Dr. Booth's slide from yesterday,	12 13 14 15 16 17	Q. (10:00 a.m.) DR. BOOTH:	that. : Well, I think you're well recognized as the major proponent for the –
14 15 16 17 18		forecasts have been consistently wrong. To get to your 3 percent, I used your surrebuttal updated RBC forecast for those 20 extra basis points, so Samantha, can we pull up Dr. Booth's slide from yesterday, the last one, please, and I think it's	12 13 14 15 16 17 18	Q. (10:00 a.m.)	that. Well, I think you're well recognized as the major proponent for the – Flattery will get you everywhere, Mr. Kelly,
14 15 16 17 18 19	Q.	forecasts have been consistently wrong. To get to your 3 percent, I used your surrebuttal updated RBC forecast for those 20 extra basis points, so Samantha, can we pull up Dr. Booth's slide from yesterday,	12 13 14 15 16 17 18 19	Q. (10:00 a.m.) DR. BOOTH:	that. Well, I think you're well recognized as the major proponent for the — Flattery will get you everywhere, Mr. Kelly, but what I would say is that I know that my
14 15 16 17 18 19 20	Q. DR. BOOTH:	forecasts have been consistently wrong. To get to your 3 percent, I used your surrebuttal updated RBC forecast for those 20 extra basis points, so Samantha, can we pull up Dr. Booth's slide from yesterday, the last one, please, and I think it's number 48.	12 13 14 15 16 17 18 19 20	Q. (10:00 a.m.) DR. BOOTH:	that. Well, I think you're well recognized as the major proponent for the – Flattery will get you everywhere, Mr. Kelly, but what I would say is that I know that my colleagues, and Professor Ralph Winter,
14 15 16 17 18 19 20 21	Q.	forecasts have been consistently wrong. To get to your 3 percent, I used your surrebuttal updated RBC forecast for those 20 extra basis points, so Samantha, can we pull up Dr. Booth's slide from yesterday, the last one, please, and I think it's number 48. I will accept, Mr. Kelly, that consistent	12 13 14 15 16 17 18 19 20 21	Q. (10:00 a.m.) DR. BOOTH:	that. Well, I think you're well recognized as the major proponent for the — Flattery will get you everywhere, Mr. Kelly, but what I would say is that I know that my colleagues, and Professor Ralph Winter, Professor Bill Waters, have been — I mean,
14 15 16 17 18 19 20 21 22	Q. DR. BOOTH:	forecasts have been consistently wrong. To get to your 3 percent, I used your surrebuttal updated RBC forecast for those 20 extra basis points, so Samantha, can we pull up Dr. Booth's slide from yesterday, the last one, please, and I think it's number 48. I will accept, Mr. Kelly, that consistent with 2012, I've not made an adjustment for –	12 13 14 15 16 17 18 19 20 21 22	Q. (10:00 a.m.) DR. BOOTH:	that. Well, I think you're well recognized as the major proponent for the — Flattery will get you everywhere, Mr. Kelly, but what I would say is that I know that my colleagues, and Professor Ralph Winter, Professor Bill Waters, have been — I mean, it's the standard model that we use. It's
14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH:	forecasts have been consistently wrong. To get to your 3 percent, I used your surrebuttal updated RBC forecast for those 20 extra basis points, so Samantha, can we pull up Dr. Booth's slide from yesterday, the last one, please, and I think it's number 48. I will accept, Mr. Kelly, that consistent with 2012, I've not made an adjustment for – the second year of the two year test year	12 13 14 15 16 17 18 19 20 21 22 23	Q. (10:00 a.m.) DR. BOOTH:	that. Well, I think you're well recognized as the major proponent for the – Flattery will get you everywhere, Mr. Kelly, but what I would say is that I know that my colleagues, and Professor Ralph Winter, Professor Bill Waters, have been – I mean, it's the standard model that we use. It's not as if I'm doing anything strange, but I
14 15 16 17 18 19 20 21 22	Q. DR. BOOTH:	forecasts have been consistently wrong. To get to your 3 percent, I used your surrebuttal updated RBC forecast for those 20 extra basis points, so Samantha, can we pull up Dr. Booth's slide from yesterday, the last one, please, and I think it's number 48. I will accept, Mr. Kelly, that consistent with 2012, I've not made an adjustment for –	12 13 14 15 16 17 18 19 20 21 22	Q. (10:00 a.m.) DR. BOOTH:	that. Well, I think you're well recognized as the major proponent for the — Flattery will get you everywhere, Mr. Kelly, but what I would say is that I know that my colleagues, and Professor Ralph Winter, Professor Bill Waters, have been — I mean, it's the standard model that we use. It's

Page 65 bit, when I started testifying, I used four 1 low models, and the models, and the models, and the models, and the models, one was a CAPM model, and one 3 low models, one was a CAPM model, and one 5 using market to book ratios. So one quarter 5 using market to book ratios. So one quarter 6 of my testimony was CAPM. The change in the number of companies that we've got in Canada 8 has knocked out a lot of useful techniques 9 and you're sear of forced back, what have 9 you got, and the major thing we've got is 10 CAPM, and 1994—actually, I think it's 11 12 1993, the BCUC had a generic hearing where 13 they adopted the automatic adjustment 13 they adopted the automatic adjustment 14 mechanism. I hat was nothing to do with us, we dind 1-my colleague, Mike Berkowitz, 15 say use the risk premium. 15 KELLY, Q.C.: 18 19 Q. I don't want to go back through the history 10 too far. 20 A. No, no, but when you say I'm the proponent, 12 I CAPM and 1994. The word of the maintaint that, we dind's true. 20 REDITION 15 DR. BOOTH: 21 10 DR. BOOTH: 21 10 DR. BOOTH: 21 10 DR. BOOTH: 21 11 DR. BOOTH: 21 12 A. That was a compliment. You can take it as a compliment of the condition of the c	1	1 8, 2016				NL Power GRA 2016
models. Half of them were discounted cash flow models, one was a CAPM model, and one was an estimate implying a rate of return was an estimate implying a rate of return for my testimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was CAPM. The change in the form the stimony was capment. The change in the form the stimony was capment. The change in the form the stimony was change to the change in the form the stimony was change to the change in the stimony to the form the change in the form the stimony was change to the change in the stimony to the form the comments of th			Page 65			Page 67
flow models, one was a CAPM model, and one was an estimate implying a rate of return was an estimate implying a rate of return to was an estimate implying a rate of return to was an estimate implying a rate of return to was an estimate implying a rate of return to was an estimate implying a rate of return to was an estimate implying a rate of return to the was an estimate implying a rate of return to analysis is showing on this risk premium handysis which you do consistently is actually a somewhat higher cost of equity hands and your 'e sort of forced back, what have you got, and the major thing we've got is CAPM, and 1994 – actually, I think it 's 10 CAPM, and 1994 – actually, I think it 's 11 CAPM, and 1994 – actually, I think it 's 12 1993, the BCUC had a generic hearing where they adopted the automatic adjustment to come back again, the simple CAPM 6 percent, and it's not as if everything is sequential. I look at the full cancey of information, and I've been looking at DCF versus CAPM, and I'm being forced to look at obac at what you have is a risk. I don't think that's true. 10 DR BOOTH: 11 Q. That was a compliment. You can take it as a compliment. You can take it as a compliment. 12 Q. That was a compliment if any they are adjustment to look at what you have on the screen, essentially what you have is a risk premium type formula analysis, isn't it? 11 DR. BOOTH: 12 A. That's right, it is a risk premium.	1		bit, when I started testifying, I used four	1		what I'm going to suggest to you is whether
was an estimate implying a rate of return for my testimony was CAPM. The change in the form of my testimony was CAPM. The change in the form of my testimony was CAPM. The change in the form of my testimony was CAPM. The change in the form of my testimony was CAPM. The change in the form of my testimony was CAPM. The change in the form of my testimony was CAPM. The change in the form of the change of the change in the form of the change of the change in the form of the change of the change in the form of the change of the change in the form of the change of the change in the form of the change of the change in the form of the change of the change in the form of the change of the change in the form of the change of the change in the form of the change of the change in the form of the change in the the change in the form of the change in the	2		models. Half of them were discounted cash	2		it's 770, in other words you add the 20, but
4 was an estimate implying a rate of return 5 using market to book ratios. So one quarter 6 of my testimony was CAPM. The change in the 7 number of companies that we've got in Canada 8 has knocked out a lot of useful techniques 9 used on any our resort of forced back, what have 10 you got, and the major thing we've got is 11 CAPM, and 1994 - actually, 11this it's 12 1993, the BCUC had a generic hearing where 13 they adopted the automatic adjustment 14 mechanism. That was nothing to do with us, 15 we didn't - my colleague, Mike Berkowitz, 16 and I, we didn't initiate that, we didn't 17 say use the risk premium. 18 KELLY, Q.C.: 19 Q. I don't want to go back through the history 19 Q. I don't want to go back through the history 20 too far. 21 DR. BOOTH: 22 A. No, no, but when you say I'm the proponent, 23 I don't think that's true. 24 KELLY, Q.C.: 25 Page 66 26 KELLY, Q.C.: 27 Q. Fair enough. As a matter of analysis, 28 though, if we look at what you have on the 29 compliment. 39 DR. BOOTH: 40 Q. And a formula type analysis, in other 41 Q. And a formula type analysis, in other 42 Q. And a formula type analysis, in other 43 N. Fair Correct. If I just did a simple 44 P. CaPM. A CaPM. A formula analysis, isn't it? 45 Q. And a formula type analysis, in other 46 Q. And a formula type analysis, in other 47 Settley, Q.C.: 48 CAPM, and specified the minor of analysis, 49 With your final result? 40 Q. And a formula type analysis, in other 41 Q. And a formula type analysis, in other 42 Q. And a formula type analysis, in other 43 N. Fair Grouph the result of the did a simple 44 P. Per used my judgment to get there. 45 Page 68 46 KELLY, Q.C.: 47 Q. Fair enough. As a matter of analysis, 48 though, if we look at what you have on the 49 screen, essentially what you have is a risk 49 through and the proponent, 40 Q. And a formula type analysis, in other 41 Q. And a formula type analysis, in other 42 Q. And a formula type analysis, in other 43 RELLY, Q.C.: 44 CAPM, we'd be down to 6 percent. 45 ELLY, Q.C.: 46 CAPM, we'd be down to	3		flow models, one was a CAPM model, and one	3		make an adjustment, or it's 804, what your
sing market to book ratios. So one quarter of my testimony was CAPM. The change in the number of companies that we've got in Canada has knocked out a lot of useful techniques and you're sort of forced back, what have you got, and the major thing we've got is CAPM, and 1994 – actually, I think it's 11 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actually, I think it's 12 CAPM, and 1994 – actuall	4			4		• • • • • • • • • • • • • • • • • • • •
of my testimony was CAPM. The change in the number of companies that we've got in Canada has knocked out a lof of useful techniques and you're sort of forced back, what have you got, and the major thing we've got is CAPM, and 1994 – actually, think it's 10 you got, and the major thing we've got is CAPM, and 1994 – actually, think it's 12 1993, the BCUC had a generic hearing where they adopted the automatic adjustment mechanism. That was nothing to do with us, 15 we didn't – my colleague, Mike Berkowitz, 15 say use the risk premium. 16 and I, we didn't initiate that, we didn't say use the risk premium. 17 years use the risk premium. 18 KELLY, Q.C.: 18 KELLY, Q.C.: 19 Q. I don't want to go back through the history 19 Q. I don't want to go back through the history 10 don't want to go back through the history 10 don't think that's true. 19 Q. I don't think that's true. 19 Q. I don't think that's true. 19 Q. That was a compliment. 19 Q. Pair enough. As a matter of analysis, though, if we look at what you have on the screen, essentially what you have is a risk premium type formula analysis. In other 19 Q. And a formula type analysis. In other 19 Some adjustments to don't day with you have is a risk premium type formula analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19 Q. And a formula type analysis. In other 19	1		1 , 0	ı		• •
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9 and you're sort of forced back, what have you got, and the major thing we've got is CAPM, and 1994—actually, 1 think it's 12 1993, the BCUC had a generic hearing where they adopted the automatic adjustment 13 10 R. BOOTH: 14 13 15 16 18 17 18 18 19 19 19 19 19 19	1		1	ı		
10 you got, and the major thing we've got is 10 Agreed?	1			ı		· '
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22 KELLY, Q.C.: 23 Q. Oh, yeah, and this type of analysis, what 24 you end up with is the type of formula, and 25 that was even bigger than it was three years 26 ago because the U.S. is now finished and 27 we've got all these other things going on,	6 7 8 9 10 11 12 13 14 15 16 17 18 19	KELLY, Q.C. Q. DR. BOOTH A. KELLY, Q.C. Q.	to take compliments I don't deserve. Fair enough. As a matter of analysis, though, if we look at what you have on the screen, essentially what you have is a risk premium type formula analysis, isn't it? That's right, it is a risk premium. And a formula type analysis. In other words, you start with what you take as the long Canada forecast bond yield, you make some adjustments to it, and then you come up with your final result?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	So your risk premium analysis takes us on the Canadian market directionally somewhat higher? We can debate whether it's 20 basis points or 50 basis points, but directionally higher on the analysis? I would say that the core estimate is the same, if not slightly lower, which is the normal fair ROE. I'd have to go back and see what that was in 2012, and then the credit spread adjustment, you're correct, is 5 basis points up. The big one is operation twist, and the problem there is - You've used your best judgment to get there.
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	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	KELLY, Q.C. Q. DR. BOOTH A. KELLY, Q.C. Q. DR. BOOTH A. KELLY, Q.C.	to take compliments I don't deserve. Fair enough. As a matter of analysis, though, if we look at what you have on the screen, essentially what you have is a risk premium type formula analysis, isn't it? That's right, it is a risk premium. And a formula type analysis. In other words, you start with what you take as the long Canada forecast bond yield, you make some adjustments to it, and then you come up with your final result? That's correct. If I just did a simple CAPM, we'd be down to 6 percent.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	So your risk premium analysis takes us on the Canadian market directionally somewhat higher? We can debate whether it's 20 basis points or 50 basis points, but directionally higher on the analysis? I would say that the core estimate is the same, if not slightly lower, which is the normal fair ROE. I'd have to go back and see what that was in 2012, and then the credit spread adjustment, you're correct, is 5 basis points up. The big one is operation twist, and the problem there is - You've used your best judgment to get there. I've used my judgment, but there's huge uncertainty surrounding that adjustment now that was even bigger than it was three years
25 25	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	KELLY, Q.C. Q. DR. BOOTH A. KELLY, Q.C. Q. DR. BOOTH A. KELLY, Q.C.	to take compliments I don't deserve. Fair enough. As a matter of analysis, though, if we look at what you have on the screen, essentially what you have is a risk premium type formula analysis, isn't it? That's right, it is a risk premium. And a formula type analysis. In other words, you start with what you take as the long Canada forecast bond yield, you make some adjustments to it, and then you come up with your final result? That's correct. If I just did a simple CAPM, we'd be down to 6 percent. Oh, yeah, and this type of analysis, what	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	So your risk premium analysis takes us on the Canadian market directionally somewhat higher? We can debate whether it's 20 basis points or 50 basis points, but directionally higher on the analysis? I would say that the core estimate is the same, if not slightly lower, which is the normal fair ROE. I'd have to go back and see what that was in 2012, and then the credit spread adjustment, you're correct, is 5 basis points up. The big one is operation twist, and the problem there is - You've used your best judgment to get there. I've used my judgment, but there's huge uncertainty surrounding that adjustment now that was even bigger than it was three years ago because the U.S. is now finished and
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		Page 69			Page 71
1		but you're correct, I mean, the estimate is	1		7.5 percent every hearing I've been in.
2		what it is, it's higher.	2	KELLY, Q.C.:	· · · · · ·
3	KELLY, Q.C.		3	Q.	Let's talk next then a little bit about DCF.
4		Now the next point I want to explore with	4	Q.	We chatted about this in our last discussion
I	Q.	1 1	l		
5		you, because we've had a discussion about	5		in January, 2013, and I think you recognized
6		where the capital markets are, and you've	6		at that stage that there'd been a shift by
7		told me they're substantially the same. We	7		Canadian regulators, and that the use of
8		looked at your risk premium analysis and saw	8		multiple tests, including DCF, is now
9		it's slightly directionally higher, I don't	9		preferable?
10		want to make a mountain out of a molehill,	10	DR. BOOTH:	
11		it's directionally higher.	11	A.	I think it's fair to say that I'd been
12	DR. BOOTH;		12		recommending looking at other models as well
13	A.	No, that's fine.	13		as simple CAPM models. Like myself, most
14	KELLY, Q.C.		14		boards still count it in terms of a CAPM,
15	Q.	The way the Board approached this in its	15		and then do this sort of hand wave and can
16	٧.	last Order was to take your 380, apply their	16		say other models we add 50 basis points or
17		judgment to the market risk premium and the	17		60 basis points, or 75 basis points, and
18		beta, and if you use the Board's methodology	18		that would be – the other models would
19		from the last time in the current market	19		
1			ı	WELLW O.C.	primarily be DCF.
20		conditions, the math would be the exact	20	KELLY, Q.C.:	
21		same. In other words, you'd be 380,	21	Q.	Let me take you to page 40 of the transcript
22		assuming the same market risk premium and	22		from our discussion the last time, and I
23		beta, you'd get the same math, correct?	23		take you down to about line 13 on page 40.
24	DR. BOOTH:		24		"Can we agree that since the last hearing
1 ~ -			1 2 2		
25			25		
25		Page 70	25		Page 72
1	A.	•	1		
1	A.	That's correct. From what I remember, the	1		before this Board", in other words, 2009,
1 2	A.	That's correct. From what I remember, the Board came up with a CAPM of 8.2, and then	1 2		before this Board", in other words, 2009, "that there's been a shifting emphasis among
1 2 3	A.	That's correct. From what I remember, the Board came up with a CAPM of 8.2, and then pushed it up to 8.8 by the use of other	1 2 3		before this Board", in other words, 2009, "that there's been a shifting emphasis among regulators from CAPM towards DCF, and I'm
1 2 3 4		That's correct. From what I remember, the Board came up with a CAPM of 8.2, and then pushed it up to 8.8 by the use of other models.	1 2 3 4		before this Board", in other words, 2009, "that there's been a shifting emphasis among regulators from CAPM towards DCF, and I'm not by the question suggesting that other
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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	KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	That's correct. From what I remember, the Board came up with a CAPM of 8.2, and then pushed it up to 8.8 by the use of other models. Right. We'll come to the other models. What I'm trying to set up to be sure we understand it, first of all, you say the overall market is the same, your risk premium analysis is directionally higher, and on the Board's methodology you would get the same result? Yeah, I would – I mean, I just qualify directionally higher, but with a huge amount of uncertainty. Fair enough. But otherwise, you're correct, I recommended 7.5 percent, as your data shows, ever since 2012 when we started these massive bond	1 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. BOOTH: A. KELLY, Q.C.	before this Board", in other words, 2009, "that there's been a shifting emphasis among regulators from CAPM towards DCF, and I'm not by the question suggesting that other regulators have simply embraced DCF, but that there'd been a shift in emphasis across the country in terms of the use of DCF with CAPM or risk premium analysis, if you like", and your answer was, "I agree with that", and then you go on to explain why. Yeah, the — Do we agree? That's true, I've seen more of these with 60, 70, 80 basis points adjustment for other models, that's correct. And if we go over to the next page to page 41, and if we come down to the question that begins at line 12, I take you to a
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	That's correct. From what I remember, the Board came up with a CAPM of 8.2, and then pushed it up to 8.8 by the use of other models. Right. We'll come to the other models. What I'm trying to set up to be sure we understand it, first of all, you say the overall market is the same, your risk premium analysis is directionally higher, and on the Board's methodology you would get the same result? Yeah, I would – I mean, I just qualify directionally higher, but with a huge amount of uncertainty. Fair enough. But otherwise, you're correct, I recommended 7.5 percent, as your data shows, ever since 2012 when we started these massive bond buying programs and it's disrupted the	1 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.C. Q. DR. BOOTH: A. KELLY, Q.C.	before this Board", in other words, 2009, "that there's been a shifting emphasis among regulators from CAPM towards DCF, and I'm not by the question suggesting that other regulators have simply embraced DCF, but that there'd been a shift in emphasis across the country in terms of the use of DCF with CAPM or risk premium analysis, if you like", and your answer was, "I agree with that", and then you go on to explain why. Yeah, the — Do we agree? That's true, I've seen more of these with 60, 70, 80 basis points adjustment for other models, that's correct. And if we go over to the next page to page 41, and if we come down to the question that begins at line 12, I take you to a particular RFI at the time, and at line 14,
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	That's correct. From what I remember, the Board came up with a CAPM of 8.2, and then pushed it up to 8.8 by the use of other models. Right. We'll come to the other models. What I'm trying to set up to be sure we understand it, first of all, you say the overall market is the same, your risk premium analysis is directionally higher, and on the Board's methodology you would get the same result? Yeah, I would – I mean, I just qualify directionally higher, but with a huge amount of uncertainty. Fair enough. But otherwise, you're correct, I recommended 7.5 percent, as your data shows, ever since 2012 when we started these massive bond	1 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. BOOTH: A. KELLY, Q.C.	before this Board", in other words, 2009, "that there's been a shifting emphasis among regulators from CAPM towards DCF, and I'm not by the question suggesting that other regulators have simply embraced DCF, but that there'd been a shift in emphasis across the country in terms of the use of DCF with CAPM or risk premium analysis, if you like", and your answer was, "I agree with that", and then you go on to explain why. Yeah, the — Do we agree? That's true, I've seen more of these with 60, 70, 80 basis points adjustment for other models, that's correct. And if we go over to the next page to page 41, and if we come down to the question that begins at line 12, I take you to a

7 tp1	il 8, 2016				NL Power GRA 2016
		Page 73			Page 75
1		top of it, there we go, if you go to line	1	Q.	That's exactly right. In fact, I was going
2		19, you were asked to confirm that, "In	2	-	to come to this later, but since we're on
3		arriving at its 9.5 percent ROE for TGI",	3		the topic, let's talk about it now. In
4		this is the BCUC, "it gave most weight to	4		fact, the BCUC had a very extensive
5		the DCF approach, lesser weight to the ERP	5		examination before coming to its conclusions
6		and CAPM approaches, and a very small amount	6		about the use of DCF and the fact that this
7		of weight to the CE approach, comparable	7		analyst bias issue doesn't exist the way you
8		earnings", and the answer you gave, you	8		suggest it has?
9		confirmed that that's correct, but you	9	DR. BOOTH:	
10		thought at the time it was a bit of an	10	A.	That was the 2009 decision where they made
11		outlier.	11	11.	explicit statements about analysts' bias. I
12	DR. BOOTH:	ound:	12		warned you - in 2013, they said they wanted
13	A.	That's correct, and I said it's a bit of an	13		to look at multi-factor models and more
14	11.	outlier simply because of the way in which	14		advanced models, and I told them beware of
15		the BCUC framed that decision in 2009, and	15		asking for what you might not – you may get
16		that was also the decision that led them to	16		what you're asking for.
17		bump up the common equity ratio from 35 to	17	KELLY, Q.C.	· · ·
18		40 percent.	18	Q.	Right, in fact, to follow up on this let me
19	KELLY, Q.C.:	•	19	Q.	take you to CA-NP-079, and this is about the
$\frac{1}{20}$, ,	Right, so the BCUC gives most weight to the	20		use of U.S. data, and if we go down to line
$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	-	DCF?	21		19, in its 2013 generic cost of capital
$\begin{vmatrix} 21\\22 \end{vmatrix}$	DR. BOOTH:	DCI:	22		decision, the BC Utilities Commission
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$		I wouldn't say that now. I'm not so sure.	23		accepted the use of U.S. data and made no
24		I'd have to go and look at the decision for	24		explicit adjustments, agreed?
25		I a have to go and rook at the decision for	25		expirent augustinents, agreeu:
		Page 7/			Daga 76
1		Page 74	1	DR ROOTH∙	Page 76
1		the 2013 one, but you're absolutely correct,	1	DR. BOOTH:	•
1 2 3		the 2013 one, but you're absolutely correct, in 2009, not only did they give weight to	1 2	DR. BOOTH:	I'd have to check that, but I've got no
3		the 2013 one, but you're absolutely correct, in 2009, not only did they give weight to the DCF, but they also said that analysts'	1 2 3	A.	I'd have to check that, but I've got no reason to believe that that's not correct.
3 4		the 2013 one, but you're absolutely correct, in 2009, not only did they give weight to the DCF, but they also said that analysts' growth estimates, no reason to discount	1 2 3 4	A. KELLY, Q.C.	I'd have to check that, but I've got no reason to believe that that's not correct.
3 4 5		the 2013 one, but you're absolutely correct, in 2009, not only did they give weight to the DCF, but they also said that analysts' growth estimates, no reason to discount them. So that, I would say, was a little	1 2 3 4 5	A.	I'd have to check that, but I've got no reason to believe that that's not correct. In its 2009 generic cost of capital
3 4 5 6		the 2013 one, but you're absolutely correct, in 2009, not only did they give weight to the DCF, but they also said that analysts' growth estimates, no reason to discount them. So that, I would say, was a little bit of an outlier compared to other Canadian	1 2 3 4 5 6	A. KELLY, Q.C.	I'd have to check that, but I've got no reason to believe that that's not correct. In its 2009 generic cost of capital decision, which is the one you told us a few
3 4 5 6 7	VELLY O.C.	the 2013 one, but you're absolutely correct, in 2009, not only did they give weight to the DCF, but they also said that analysts' growth estimates, no reason to discount them. So that, I would say, was a little bit of an outlier compared to other Canadian boards.	1 2 3 4 5 6 7	A. KELLY, Q.C.	I'd have to check that, but I've got no reason to believe that that's not correct. In its 2009 generic cost of capital decision, which is the one you told us a few minutes ago was the last time the OEB looked
3 4 5 6 7 8	KELLY, Q.C	the 2013 one, but you're absolutely correct, in 2009, not only did they give weight to the DCF, but they also said that analysts' growth estimates, no reason to discount them. So that, I would say, was a little bit of an outlier compared to other Canadian boards.	1 2 3 4 5 6 7 8	A. KELLY, Q.C.	I'd have to check that, but I've got no reason to believe that that's not correct. In its 2009 generic cost of capital decision, which is the one you told us a few minutes ago was the last time the OEB looked at, the OEB also accepted the U.S. data
3 4 5 6 7 8 9	KELLY, Q.C Q.	the 2013 one, but you're absolutely correct, in 2009, not only did they give weight to the DCF, but they also said that analysts' growth estimates, no reason to discount them. So that, I would say, was a little bit of an outlier compared to other Canadian boards. :: BCUC is a pretty experienced and competent	1 2 3 4 5 6 7 8 9	A. KELLY, Q.C. Q.	I'd have to check that, but I've got no reason to believe that that's not correct. In its 2009 generic cost of capital decision, which is the one you told us a few minutes ago was the last time the OEB looked
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		Page 77			Page 79
1		Canada and the U.S. are sufficiently similar	1	KELLY, Q.C.	
2		as to justify comparison. Moreover, the NEB	2	Q.	So is it your view that the financial
3		found that Canadian utilities are competing	3		situation which has existed over the last
4		for capital in global financial markets that	4		four or five years has actually facilitated
5		are increasingly integrated. The NEB	5		or moved towards further integration, did I
6		recognized that it is no longer possible to	6		take that from your answer?
7		view Canada as insulated from the remainder	7	DR. BOOTH:	•
8		of the investing world, and that doing so	8	A.	I would say that there's two things going
9		would be detrimental to the ability of	9		on. One is that there is more integration,
10		Canadian utilities to compete for capital".	10		still difficult for Canadians to buy foreign
11		So that's where the NEB, another main	11		securities that are not listed in U.S.
12		regulator in Canada, arrived in 2008?	12		exchanges, very difficult to buy German
13	DR. BOOTH:	_	13		stocks if you're a Canadian, or Italian
14	A.	That's correct, and that was a decision	14		stocks, so we still have restrictions mainly
15	Α.	where the National Energy Board used ACWI	15		due to securities regulations buying foreign
16		and that's something that even the NEB has	16		securities, but there's no question that the
17		retraced its steps on, but there's actually	17		capital markets themselves are getting more
1		* '	ı		•
18		no question, Mr. Kelly, that the capital	18		integrated, and there's also no question
19		markets are more integrated now than they	19		that the current problems facing investors
20		were two years ago, five years ago, ten	20		in Germany, Italy, France, the U.K., the
21		years ago, fifteen years ago, twenty years	21		U.S., are all very similar, they're looking
22		ago. We have seen fundamental changes in	22		at the same problems of slow growth, massive
23		taxes and impediments, particularly for	23		government - central bank intervention in
24		pension fund and tax preferred investments	24		the markets. So it's those same economic
25			25		
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		Page 78	23		Page 80
1		Page 78 that used to basically make sure that we	1		Page 80 problems that result in the same reaction
1		that used to basically make sure that we	1		problems that result in the same reaction
1 2		that used to basically make sure that we invested in Canada. You probably remember	1 2		problems that result in the same reaction and result in the same sort of behaviour of
1 2 3		that used to basically make sure that we invested in Canada. You probably remember at one point we had a 10 percent allowance	1 2 3		problems that result in the same reaction and result in the same sort of behaviour of security prices. Trying to say, well,
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Apri	il 8, 2016		NL Power GRA 2016
	Page 81		Page 83
1	we recovered and we're waiting for Godot,	1	analysis the last time. If you come over,
2	we're waiting for the rest of the world to	2	Samantha, to page 17, and come down to Dr.
3	get their act together.	3	Booth's conclusion at about line 18, Dr.
4	(10:15 a.m.)	4	Booth, you write, "I would judge DCF
5	KELLY, Q.C.:	5	estimates using analysts' growth forecast to
6	Q. Dr. Booth, we went through the apples to	6	be less reliable than the DCF estimates for
7	apples comparison on your risk premium	7	the market as a whole, but they confirm the
8	analysis so that the Board can compare that.	8	low risk nature of U.S. utilities and a fair
9	Now last time around, you also had a DCF	9	return for them of about 873", which is what
10	analysis and the Board referred to that in	10	we just looked at. "This estimate is
11	•	11	•
1	its judgment, and you and I had a fairly	- 1	consistent with the average ROE of U.S. gas
12	extensive discussion over it the last time,	12	and electric utilities of just over 11
13	and I want to take you to that, so we do an	13	percent since 1993", correct?
14	apples to apples comparison so the Board ca		DR. BOOTH:
15	see the directional changes that flow out of	15	A. What page are we looking at?
16	that, if any. If we go to your testimony	16	KELLY, Q.C.:
17	the last time, it begins on page 14 – sorry,	17	Q. Sorry, page 17 of Appendix "D".
18	it's Appendix "D", my mistake. Okay, and	18	DR. BOOTH:
19	this is where you start the discussion about	19	A. Okay, sorry, I see that.
20	your individual company estimates, and	20	KELLY, Q.C.:
21	Samantha, if you could come over to page 15		Q. I'll give you another minute to just have a
22	Do you have that, Dr. Booth?	22	quick look at that again.
23	DR. BOOTH:	23	DR. BOOTH:
24	A. Page 15, yes.	24	A. That's right, and the fact that I show a
1 25		25	
25		23	
23	Page 82	23	Page 84
1	Page 82 KELLY, Q.C.:	1	و
1	KELLY, Q.C.:	1 2	market to book ratio significantly above 1.
1 2	KELLY, Q.C.: Q. And this is the DCF analysis that you did	1	market to book ratio significantly above 1. KELLY, Q.C.:
1 2 3	KELLY, Q.C.: Q. And this is the DCF analysis that you did the last time, and just to refresh the	1 2 3	market to book ratio significantly above 1. KELLY, Q.C.: Q. So the last time on this methodology, you
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1 2 3 4 5	KELLY, Q.C.: Q. And this is the DCF analysis that you did the last time, and just to refresh the Board's memory, we'll go to the transcrip if we need to, the line we have to look at	1 2 3 4 5	market to book ratio significantly above 1. KELLY, Q.C.: Q. So the last time on this methodology, you got a 9.23 DCF with the 50 basis points added on?
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1 because they're adjusted by investors. 2 KELLY, Q.C.: 3 Q. Can I just point out one little thing for 4 you, and you can – nothing really turns on 4 just makes the table look od 2 compare apples to apples, was 3 over to mid column, the "K" over to mid c	25
1 because they're adjusted by investors. 2 KELLY, Q.C.: 3 Q. Can I just point out one little thing for 4 you, and you can – nothing really turns on 2 just makes the table look od 2 compare apples to apples, w 3 over to mid column, the "K" 4 correct?	Page 86 Page 88
2 KELLY, Q.C.: 3 Q. Can I just point out one little thing for 4 you, and you can – nothing really turns on 2 compare apples to apples, we over to mid column, the "K" over to mid column, the "K" correct?	ecause they're adjusted by investors.
3 Q. Can I just point out one little thing for 4 you, and you can – nothing really turns on 4 correct?	· · · · · · · · · · · · · · · · · · ·
4 you, and you can – nothing really turns on 4 correct?	
5 this, but if you look at Pinnacle West under 5 DR. BOOTH:	this, but if you look at Pinnacle West under 5 DR. BOOTH:
6 the first column, five year growth past, and 6 A. That's correct.	· · · · · · · · · · · · · · · · · · ·
7 you got –0.04, and - 7 KELLY, Q.C.:	
9 A. Well, when you say "I've got", yes, it's the 9 DR. BOOTH:	
10 five year past growth reported by Yahoo. 10 A. That's correct.	
TELY OF THIS DEAL WITH THE TOLE RECORD THAT TOOKED LETY OF WE ADD SU DASIS DOINTS SO Y	
	·
like a very odd number for an electric 13 DR. BOOTH:	· · · · · · · · · · · · · · · · · · ·
like a very odd number for an electric utility, so we checked, and we think you 13 DR. BOOTH: 14 A. Correct.	
like a very odd number for an electric 14 utility, so we checked, and we think you 15 simply misread the table you were taking it 18 DR. BOOTH: 19 A. Correct. 19 KELLY, Q.C.:	
like a very odd number for an electric utility, so we checked, and we think you simply misread the table you were taking it from. That appears to be the last quarter 13 DR. BOOTH: 14 A. Correct. 15 KELLY, Q.C.: 16 Q. 8.90 and 50 is 9.40, correct.	
like a very odd number for an electric utility, so we checked, and we think you simply misread the table you were taking it from. That appears to be the last quarter result as opposed to the five year result, 13 DR. BOOTH: 14 A. Correct. 15 KELLY, Q.C.: 16 Q. 8.90 and 50 is 9.40, correct. 17 DR. BOOTH:	
like a very odd number for an electric utility, so we checked, and we think you simply misread the table you were taking it from. That appears to be the last quarter result as opposed to the five year result, and you can take, subject to check, that the 13 DR. BOOTH: 14 A. Correct. 15 KELLY, Q.C.: 16 Q. 8.90 and 50 is 9.40, correct. 17 DR. BOOTH: 18 A. Correct.	
like a very odd number for an electric utility, so we checked, and we think you simply misread the table you were taking it from. That appears to be the last quarter result as opposed to the five year result, and you can take, subject to check, that the correct number should be 7.59 percent. 13 DR. BOOTH: 14 A. Correct. 15 KELLY, Q.C.: 16 Q. 8.90 and 50 is 9.40, correct. 17 DR. BOOTH: 18 A. Correct. 19 KELLY, Q.C.:	
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like a very odd number for an electric utility, so we checked, and we think you simply misread the table you were taking it from. That appears to be the last quarter result as opposed to the five year result, and you can take, subject to check, that the correct number should be 7.59 percent. DR. BOOTH: DR. BOOTH: DR. BOOTH: DR. BOOTH: Note the proper should be 3.40, correct to the proper should be 3.40, correct to the proper should be 3.50 percent. DR. BOOTH: RELLY, Q.C.: RELLY,	
like a very odd number for an electric utility, so we checked, and we think you simply misread the table you were taking it from. That appears to be the last quarter result as opposed to the five year result, and you can take, subject to check, that the correct number should be 7.59 percent. DR. BOOTH: RELLY, Q.C.: DR. BOOTH: RELLY, Q.C.: PR. BOOTH: RELLY, Q.C.: OR. BOOTH: RELLY, Q.C.: RELLY, Q.C.: OR. BOOTH: RELLY, Q.C.:	And nothing as far as I can see turns on 23 A. No, I don't think that's correct. I think,
like a very odd number for an electric utility, so we checked, and we think you simply misread the table you were taking it from. That appears to be the last quarter result as opposed to the five year result, and you can take, subject to check, that the correct number should be 7.59 percent. DR. BOOTH: RELLY, Q.C.: DR. BOOTH: RELLY, Q.C.: PR. BOOTH: RELLY, Q.C.: OR. BOOTH: RELLY, Q.C.: PR. BOOTH: RELLY, Q.C.: RELLY, Q.C.:	that analysis. It's just one of those, we're 24 as you said, the comparison three years ago
like a very odd number for an electric tutility, so we checked, and we think you simply misread the table you were taking it from. That appears to be the last quarter result as opposed to the five year result, and you can take, subject to check, that the correct number should be 7.59 percent. DR. BOOTH: RELLY, Q.C.: DR. BOOTH: RELLY, Q.C.: DR. BOOTH: RELLY, Q.C.: Q. So the comparison with the time would be 9.40 this time LIMB would be 9.40	25

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1		was with the gas companies.	1		electric utilities is 8.90. So you can look
2	KELLY, Q.C.	• •	2		at that and say, well, there's 50 basis
3	Q.	No, it was with a proxy sample that you took	3		points higher cost of equity for the
1	Q.		1		
4		back then, a different proxy sample, I	4		electrics and the gas, and that actually
5		agree.	5		confirms the fact that the betas for the
6	DR. BOOTH:		6		U.S. electric companies is significantly
7	A.	That's correct. I mean, if you just say,	7		higher than the betas for the U.S. gas
8		well, it's a proxy sample when you're	8		companies.
9		picking that sample, then you're correct.	9	KELLY, Q.C.	:
10		If you look at it and say gas companies to	10	Q.	But these are the comparisons that the Board
11		gas companies, then you're not correct,	11	`	will have to look at between the 9.23 that
12		because the gas companies to gas companies,	12		you had the last time, and 9.40 or 8.88 this
13		this is 8.38 percent median.	13		time?
14	KELLY, Q.C.	*	14	DR. BOOTH:	time:
1			l		W-111-4 I14 44b - D4 4- :-
15	Q.	These are your samples, though. So that	15	A.	Well, what I would recommend the Board do is
16		we're not at cross-purposes, Samantha, let's	16		say, well, it's 9.23 percent for the U.S.
17		go back to the top of the page and here's	17		gas samples that I used last time, and they
18		your gas sample, in which case if we look at	18		were basically, from what I remember, based
19		the same set of numbers, we'd be at 8.38 for	19		upon Ms. McShane's sample and the Brattle
20		the median?	20		Group sample, and again designed to avoid a
21	DR. BOOTH:		21		lot of cross-examination of why this
22	A.	That's right.	22		company, why not that company, and on that
23	KELLY, Q.C.	•	23		point, it was 9.23 three years ago, and now
24	Q.	And then we'd be at with 50 basis points,	24		it's 8.38 plus 50 basis points, 8.88.
25	Q.	This then we a be at with 50 basis points,	25		it s 0.50 pius 50 busis points, 0.00.
123			43		
		D 00	\vdash		D 00
		Page 90			Page 92
1		Page 90 8.88?	1	KELLY, Q.C.	· I
1 2	DR. BOOTH:	•	1 2	Q.	· I
	DR. BOOTH:	•	1 2 3	,	
2		8.88? That's right, so down by 30/35 basis points.	l	Q.	
2 3 4	A. KELLY, Q.C.	8.88? That's right, so down by 30/35 basis points.	3 4	Q. DR. BOOTH:	The sample is not exactly the same either. No, that's true, the sample is not exactly
2 3 4 5	A.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the	3 4 5	Q. DR. BOOTH:	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes.
2 3 4 5 6	A. KELLY, Q.C. Q.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom?	3 4 5 6	Q. DR. BOOTH: A. KELLY, Q.C.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes.
2 3 4 5 6 7	A. KELLY, Q.C. Q. DR. BOOTH:	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom?	3 4 5 6 7	Q. DR. BOOTH:	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a
2 3 4 5 6 7 8	A. KELLY, Q.C. Q. DR. BOOTH: A.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes.	3 4 5 6 7 8	Q. DR. BOOTH: A. KELLY, Q.C.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these
2 3 4 5 6 7 8 9	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes.	3 4 5 6 7 8 9	Q. DR. BOOTH: A. KELLY, Q.C.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we
2 3 4 5 6 7 8 9 10	A. KELLY, Q.C. Q. DR. BOOTH: A.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth,	3 4 5 6 7 8 9 10	Q. DR. BOOTH: A. KELLY, Q.C.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher
2 3 4 5 6 7 8 9 10 11	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material	3 4 5 6 7 8 9 10 11	Q. DR. BOOTH: A. KELLY, Q.C.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the
2 3 4 5 6 7 8 9 10 11 12	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of	3 4 5 6 7 8 9 10 11 12	Q. DR. BOOTH: A. KELLY, Q.C.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher
2 3 4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today.	3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH: A. KELLY, Q.C. Q.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed?
2 3 4 5 6 7 8 9 10 11 12 13 14	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of	3 4 5 6 7 8 9 10 11 12 13 14	Q. DR. BOOTH: A. KELLY, Q.C.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would
2 3 4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today.	3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH: A. KELLY, Q.C. Q.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed?
2 3 4 5 6 7 8 9 10 11 12 13 14	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today.	3 4 5 6 7 8 9 10 11 12 13 14	Q. DR. BOOTH: A. KELLY, Q.C. Q.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today. Do you agree with that?	3 4 5 6 7 8 9 10 11 12 13 14 15	Q. DR. BOOTH: A. KELLY, Q.C. Q.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would suspect if you say that to Newfoundland
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today. Do you agree with that? No, I would not agree with that. I mean, first of all, I don't put a great deal of	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would suspect if you say that to Newfoundland Power, they would say 50 basis points is not minor on the ROE.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today. Do you agree with that? No, I would not agree with that. I mean, first of all, I don't put a great deal of stock on individual point estimates, but	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would suspect if you say that to Newfoundland Power, they would say 50 basis points is not minor on the ROE.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today. Do you agree with that? No, I would not agree with that. I mean, first of all, I don't put a great deal of stock on individual point estimates, but having said that, directionally the gas	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would suspect if you say that to Newfoundland Power, they would say 50 basis points is not minor on the ROE. It's an interesting approach that you take
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today. Do you agree with that? No, I would not agree with that. I mean, first of all, I don't put a great deal of stock on individual point estimates, but having said that, directionally the gas utilities are down compared to three years	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would suspect if you say that to Newfoundland Power, they would say 50 basis points is not minor on the ROE. It's an interesting approach that you take because on CAPM, when we were talking about
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. BOOTH: A. KELLY, Q.C. Q.	8.88? That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today. Do you agree with that? No, I would not agree with that. I mean, first of all, I don't put a great deal of stock on individual point estimates, but having said that, directionally the gas utilities are down compared to three years ago, although as I said, I wouldn't put a	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would suspect if you say that to Newfoundland Power, they would say 50 basis points is not minor on the ROE. It's an interesting approach that you take because on CAPM, when we were talking about 50 basis points difference in your CAPM, or
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. BOOTH: A. KELLY, Q.C. Q.	That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today. Do you agree with that? No, I would not agree with that. I mean, first of all, I don't put a great deal of stock on individual point estimates, but having said that, directionally the gas utilities are down compared to three years ago, although as I said, I wouldn't put a great deal of faith in that, and the other	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would suspect if you say that to Newfoundland Power, they would say 50 basis points is not minor on the ROE. It's an interesting approach that you take because on CAPM, when we were talking about 50 basis points difference in your CAPM, or I should call it your equity or your risk
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.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today. Do you agree with that? No, I would not agree with that. I mean, first of all, I don't put a great deal of stock on individual point estimates, but having said that, directionally the gas utilities are down compared to three years ago, although as I said, I wouldn't put a great deal of faith in that, and the other thing you can look at this is the fact that	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would suspect if you say that to Newfoundland Power, they would say 50 basis points is not minor on the ROE. It's an interesting approach that you take because on CAPM, when we were talking about 50 basis points difference in your CAPM, or I should call it your equity or your risk premium analysis, you were quick to say, oh,
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. BOOTH: A. KELLY, Q.C. Q.	That's right, so down by 30/35 basis points. A small down there, a small up on the bottom? Yes. And what I'm taking out of that, Dr. Booth, is directionally I'm not seeing any material change in the U.S. market for the cost of equity between 2013 and where we are today. Do you agree with that? No, I would not agree with that. I mean, first of all, I don't put a great deal of stock on individual point estimates, but having said that, directionally the gas utilities are down compared to three years ago, although as I said, I wouldn't put a great deal of faith in that, and the other	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	The sample is not exactly the same either. No, that's true, the sample is not exactly the same because life changes. As we saw when we looked at the market as a whole, when we look at these numbers, these are minor variations from the 9.23 that we saw the last time, a few basis points higher on one, a few basis points lower on the other, agreed? 30/50 basis points, is that minor? I would suspect if you say that to Newfoundland Power, they would say 50 basis points is not minor on the ROE. It's an interesting approach that you take because on CAPM, when we were talking about 50 basis points difference in your CAPM, or I should call it your equity or your risk

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1		just as a judgmental matter?	1		the different governments?
2	DR. BOOTH:		2	DR. BOOTH:	
3	A.	No, I think that's not a correct assertion.	3	A.	That's exactly right, but all I'm doing is
4		As I said, the big problem with that	4		pointing out that when you look at
5		analysis is simply the preferred share	5		integrated capital markets, the basis
6		yields and the fact that we've seen this	6		proposition is the same thing sells for the
7		demonstrable increase in volatility. All	7		same price in two markets. So the classic
8		I'm saying here is if you believe these	8		example is gold, because we run the gold
9		numbers, and these are straight from the	9		standard for 120 years, so we saw movements
10		analysts' forecasts and they're mechanical	10		
1		•			in gold and we saw exchange rates driven by
11		calculations, then the U.S. gas sample	11		the price of gold. It's a commodity, it has
12		indicates a reduction from 2013 to today,	12		to sell for effectively the same price in
13		and it also indicates that the U.S.	13		different markets. Equities are not a
14		electrics have got a higher cost of equity	14		commodity. Equities are different between
15		than the U.S. gas companies, which is	15		the U.S. and Canada, and in particular, as
16		consistent with their beta estimates. So	16		we know, Canadian utilities are not traded
17		what I would tell the Board to take from	17		in the United States, and they have very
18		this is that directionally the DCF indicates	18		little non-Canadian ownership, and they're
19		a reduction in the U.S. equity cost, and the	19		restricted from selling securities into the
20		fact that U.S. electric companies are	20		U.S. So claiming that it's integrated on
21		riskier than U.S. gas companies.	21		the big level, particularly in the massive
22	KELLY, Q.C.	- ·	22		flows in government bond markets, and then
23	Q.	Okay, so your advice to the Board, and we	23		saying, well, that means it's fully
24	٧.	talked about Canadian direction earlier,	24		integrated in all the different components
25		taiked about Canadian direction carner,	25		integrated in an tile different components
		D 04			D 06
		Page 94			Page 96
1					
1 -		your advice to the Board, you think, is that	1		of the markets is a bit of a stretch.
2		the U.S. market is slightly directionally	2	KELLY, Q.C.	
3		the U.S. market is slightly directionally lower?		KELLY, Q.C.	Dr. Booth, I gave you as a cross-examination
1	DR. BOOTH:	the U.S. market is slightly directionally lower?	2		
3	DR. BOOTH:	the U.S. market is slightly directionally lower?	2 3		Dr. Booth, I gave you as a cross-examination
3 4		the U.S. market is slightly directionally lower? I would say –	2 3 4		Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in
3 4 5	A. KELLY, Q.C.	the U.S. market is slightly directionally lower? I would say —	2 3 4 5	Q.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014.
3 4 5 6 7	A.	the U.S. market is slightly directionally lower? I would say — : That doesn't seem to fit, frankly. We just	2 3 4 5 6	Q. DR. BOOTH: A.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that.
3 4 5 6 7 8	A. KELLY, Q.C.	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets.	2 3 4 5 6 7 8	Q. DR. BOOTH: A. KELLY, Q.C.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that.
3 4 5 6 7 8 9	A. KELLY, Q.C.	the U.S. market is slightly directionally lower? I would say — : That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a	2 3 4 5 6 7 8 9	Q. DR. BOOTH: A. KELLY, Q.C. Q.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that.
3 4 5 6 7 8 9 10	A. KELLY, Q.C.	the U.S. market is slightly directionally lower? I would say — : That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in	2 3 4 5 6 7 8 9	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that?
3 4 5 6 7 8 9 10 11	A. KELLY, Q.C.	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United	2 3 4 5 6 7 8 9 10 11	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious.
3 4 5 6 7 8 9 10 11 12	A. KELLY, Q.C.	the U.S. market is slightly directionally lower? I would say — : That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which	2 3 4 5 6 7 8 9 10 11 12	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious.
3 4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C. Q.	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which is what I'm seeing in the data?	2 3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious. Well, you accused me of being facetious
3 4 5 6 7 8 9 10 11 12 13 14	A. KELLY, Q.C. Q. DR. BOOTH:	the U.S. market is slightly directionally lower? I would say — : That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which is what I'm seeing in the data?	2 3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. KELLY, Q.C. Q. DR. BOOTH:	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which is what I'm seeing in the data? Well, are you seeing in the data the fact that the U.S. bond yields are 70 to 80 basis points higher than Canada? If you believe	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious. Well, you accused me of being facetious earlier and - Well, I'm facetious as well, Mr. Kelly.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. KELLY, Q.C. Q. DR. BOOTH:	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which is what I'm seeing in the data? Well, are you seeing in the data the fact that the U.S. bond yields are 70 to 80 basis points higher than Canada? If you believe in industry graded market, the borrowing	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious. Well, you accused me of being facetious earlier and -
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. KELLY, Q.C. Q. DR. BOOTH:	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which is what I'm seeing in the data? Well, are you seeing in the data the fact that the U.S. bond yields are 70 to 80 basis points higher than Canada? If you believe in industry graded market, the borrowing cost for the U.S. Government should be the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious. Well, you accused me of being facetious earlier and - Well, I'm facetious as well, Mr. Kelly. I see.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. KELLY, Q.C. Q. DR. BOOTH:	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which is what I'm seeing in the data? Well, are you seeing in the data the fact that the U.S. bond yields are 70 to 80 basis points higher than Canada? If you believe in industry graded market, the borrowing cost for the U.S. Government should be the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious. Well, you accused me of being facetious earlier and - Well, I'm facetious as well, Mr. Kelly. I see. We'll enter that as Information 32.
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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. BOOTH: A.	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which is what I'm seeing in the data? Well, are you seeing in the data the fact that the U.S. bond yields are 70 to 80 basis points higher than Canada? If you believe in industry graded market, the borrowing cost for the U.S. Government should be the same as the borrowing cost for the Government of Canada.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. MS. GLYNN: A. KELLY, Q.C.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious. Well, you accused me of being facetious earlier and - Well, I'm facetious as well, Mr. Kelly. I see. We'll enter that as Information 32.
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. BOOTH: A.	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which is what I'm seeing in the data? Well, are you seeing in the data the fact that the U.S. bond yields are 70 to 80 basis points higher than Canada? If you believe in industry graded market, the borrowing cost for the U.S. Government should be the same as the borrowing cost for the Government of Canada.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. MS. GLYNN: A. KELLY, Q.C.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious. Well, you accused me of being facetious earlier and - Well, I'm facetious as well, Mr. Kelly. I see. We'll enter that as Information 32. Thank you. I don't intend to go through
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. KELLY, Q.C. Q. DR. BOOTH: A.	the U.S. market is slightly directionally lower? I would say — That doesn't seem to fit, frankly. We just talked about integrated capital markets. One would logically expect that we have a slightly higher — directionally higher in Canada, directionally higher in the United States, or at least equal in the U.S., which is what I'm seeing in the data? Well, are you seeing in the data the fact that the U.S. bond yields are 70 to 80 basis points higher than Canada? If you believe in industry graded market, the borrowing cost for the U.S. Government should be the same as the borrowing cost for the Government of Canada. But you've already explained how that's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. MS. GLYNN: A. KELLY, Q.C.	Dr. Booth, I gave you as a cross-examination aid a copy of the recent FERC decision in the United States, June, 2014. Yes, I enjoyed reading that. Did you enjoy reading that? I'm being facetious. Well, you accused me of being facetious earlier and - Well, I'm facetious as well, Mr. Kelly. I see. We'll enter that as Information 32. Thank you. I don't intend to go through this, but can we agree that FERC, Federal

_	il 8, 2016				NL Power GRA 2016
		Page 97			Page 99
1		probably the pre-eminent regulator in the	1		constitute a theft of property", and I think
2		United States, or do you know?	2		the phrase was, "They're against the
3	DR. BOOTH:	· · · · · · · · · · · · · · · · · · ·	3		Constitution", and on the break, I said what
4	A.	I would expect so, in the same way that we	4		country do you think you're in. The U.S. is
5		always used to treat the CRTC regulated	5		an extremely litigious country, and when I
6		telephone companies, and the National Energy	6		read this, I couldn't help but think that in
7		Board regulating inter-provincial pipelines	7		Canada we give a huge leeway for tribunals
8		as being the major regulators, and we know	8		and as long as they come up with what is a
9		that provincial regulators listen to the	9		fair and reasonable, Appellant courts are
10		decisions of national regulators.	10		extremely unwilling to impose a standard on
11	KELLY, Q.C.	-	11		the Board and say you have to do this or you
12	Q.	So they use a DCF model and they have now	12		have to do that. They trust he judgment of
13	ζ.	essentially streamlined it with the same	13		regulatory boards. I read this, and I saw
14		model applying to both gas and electric	14		this is how we do it, and there will be an
15		utilities in the U.S.?	15		appeal if you don't do it exactly the way
16	DR. BOOTH:		16		everything is laid out.
17	A.	Yeah, I was struck by how formal this is,	17	KELLY, Q.C.:	everything is faid out.
18	A.	and how – we all know the United States is	ı	, ,	Voy may not totally ye donaton d the greet the
1			18		You may not totally understand the way the
19		litigious, but this reads like a Supreme Court decision with all these footnotes. I'm	19		FERC system works in the States because they
20			20		have hearing judges, and then it goes to the
21		not a lawyer, Mr. Kelly, but I looked at	21		Commission, but I don't need to get into
22		this and I thought, wow, this doesn't look	22		that discussion with you.
23		like anything that the National Energy Board	23	DR. BOOTH:	T. 11
24		would produce.	24	A.	It's true, like, I mean, I would certainly
25			25		
23			23		
		Page 98	23		Page 100
1	KELLY, Q.C.	:	1		not hold myself out either as a legal expert
1 2	KELLY, Q.C.	: But we'll agree that DCF is the methodology	1 2		not hold myself out either as a legal expert or as an expert on the United States. All
1	Q.	: But we'll agree that DCF is the methodology commonly employed in the United States?	1		not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this,
1 2		: But we'll agree that DCF is the methodology commonly employed in the United States?	1 2		not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this, it just reminds me how litigious the United
1 2 3	Q.	: But we'll agree that DCF is the methodology commonly employed in the United States?	1 2 3		not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this,
1 2 3 4	Q. DR. BOOTH:	: But we'll agree that DCF is the methodology commonly employed in the United States?	1 2 3 4	KELLY, Q.C.	not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this, it just reminds me how litigious the United States is.
1 2 3 4 5	Q. DR. BOOTH:	But we'll agree that DCF is the methodology commonly employed in the United States? That's true, and I read this and there were	1 2 3 4 5	KELLY, Q.C. Q.	not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this, it just reminds me how litigious the United States is.
1 2 3 4 5 6	Q. DR. BOOTH:	But we'll agree that DCF is the methodology commonly employed in the United States? That's true, and I read this and there were all sorts of challenges and referrals back	1 2 3 4 5 6		not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this, it just reminds me how litigious the United States is.
1 2 3 4 5 6 7	Q. DR. BOOTH:	But we'll agree that DCF is the methodology commonly employed in the United States? That's true, and I read this and there were all sorts of challenges and referrals back basically from previous decisions, and my	1 2 3 4 5 6 7		not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this, it just reminds me how litigious the United States is. Okay, now something closer to home, I also
1 2 3 4 5 6 7 8	Q. DR. BOOTH:	But we'll agree that DCF is the methodology commonly employed in the United States? That's true, and I read this and there were all sorts of challenges and referrals back basically from previous decisions, and my overriding implication from looking at this,	1 2 3 4 5 6 7 8		not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this, it just reminds me how litigious the United States is. Okay, now something closer to home, I also gave you a cross-aid which is some extracts
1 2 3 4 5 6 7 8 9	Q. DR. BOOTH:	But we'll agree that DCF is the methodology commonly employed in the United States? That's true, and I read this and there were all sorts of challenges and referrals back basically from previous decisions, and my overriding implication from looking at this, as I said, is how litigious the U.S. is, and	1 2 3 4 5 6 7 8 9		not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this, it just reminds me how litigious the United States is. Okay, now something closer to home, I also gave you a cross-aid which is some extracts from the textbook that you and Dr. Cleary have written?
1 2 3 4 5 6 7 8 9	Q. DR. BOOTH:	But we'll agree that DCF is the methodology commonly employed in the United States? That's true, and I read this and there were all sorts of challenges and referrals back basically from previous decisions, and my overriding implication from looking at this, as I said, is how litigious the U.S. is, and also the fact that they're referring to the presiding Judge rather than a tribunal.	1 2 3 4 5 6 7 8 9	Q.	not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this, it just reminds me how litigious the United States is. Okay, now something closer to home, I also gave you a cross-aid which is some extracts from the textbook that you and Dr. Cleary have written?
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1 2 3 4 5 6 7 8 9 10 11 12	Q. DR. BOOTH: A. KELLY, Q.C.	But we'll agree that DCF is the methodology commonly employed in the United States? That's true, and I read this and there were all sorts of challenges and referrals back basically from previous decisions, and my overriding implication from looking at this, as I said, is how litigious the U.S. is, and also the fact that they're referring to the presiding Judge rather than a tribunal.	1 2 3 4 5 6 7 8 9 10 11 12	Q. DR. BOOTH: A.	not hold myself out either as a legal expert or as an expert on the United States. All I'm saying is my impression of reading this, it just reminds me how litigious the United States is. Okay, now something closer to home, I also gave you a cross-aid which is some extracts from the textbook that you and Dr. Cleary have written? Can't we talk about this decision?
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		Page 101			Page 103
1	A.	We'll enter the excerpt as Info 33.	1		corporations in mature industries with
2	KELLY, Q.C.	<u>*</u>	2		stable profits and an established dividend
3	Q.	Thank you. You referred in your opening,	3		policy. In Canada the banks and utility
4	₹.	Dr. Booth, to your textbook, and you'll be	4		companies fit this profile, while in the
5		pleased to know I've acquired your third	5		United States, there are numerous NYSE
6		edition most recent -	6		listed companies of this nature, correct?
7	DR. BOOTH:		7	DR. BOOTH:	instea companies of this nature, correct:
1			'		Correct
8	A.	Oh, you'll be pleased to know there's a	8	A.	Correct.
9		fourth edition coming out, and I hope you	9	KELLY, Q.C.	
10	WELLY O	buy that one, Mr. Kelly.	10	Q.	So a use of a DCF for a utility company is
11	KELLY, Q.C.		11	DD DOOTH	in fact what you'd expect?
12	Q.	I couldn't get the fourth edition. It's not	12	DR. BOOTH:	
13		out yet, but I did get the most recent.	13	A.	Yeah, I mean, this is from the point of view
14	DR. BOOTH:		14		of invested value in the stock, then all
15	A.	Oh, it is out, and I hope you paid full	15		we're doing is saying that you value the
16		price, you didn't buy it on Amazon or	16		string of dividends, which is true. If you
17		somewhere.	17		don't have dividends, there's nothing to
18	KELLY, Q.C.	:	18		value.
19	Q.	Can we look at – I'm not going to go through	19	KELLY, Q.C.	
20		a lot of this. Can we look at page 263 of	20	Q.	Come over with me to page 353 and come down
21		this?	21		to "Lessons to be Learned" where you write,
22	DR. BOOTH:		22		"Estimating required returns using the CAPM
23	A.	Yes.	23		is fraught with difficulties. We need
24	KELLY, Q.C.	:	24		estimates of beta as well as the expected
25	, (25		return on the market. Generally, betas are
		Page 102			Page 104
1	Q.	And the paragraph – this is talking about	1		estimated using past data with two years of
2	Q.	the dividend discount model, which is	2		weekly data or five years of monthly data
$\frac{2}{3}$		•	4		· · · · · · · · · · · · · · · · · · ·
1 2		assentially a DCE analysis correct?	1 2		haing the most commonly employed engroushes
1	DD DOOTH	essentially a DCF analysis, correct?	3		being the most commonly employed approaches.
4	DR. BOOTH:		4		Of course, what we really want is an
4 5	DR. BOOTH:	That's right. Yeah, it's exactly – I mean,	4 5		Of course, what we really want is an estimate of beta for future periods so beta
4 5 6		That's right. Yeah, it's exactly – I mean, you discount whatever you think you're going	4		Of course, what we really want is an estimate of beta for future periods so beta estimates can and do vary through time, as
4 5 6 7		That's right. Yeah, it's exactly – I mean, you discount whatever you think you're going to receive as an investor. So if you're	4 5 6 7		Of course, what we really want is an estimate of beta for future periods so beta estimates can and do vary through time, as illustrated in Table 9.1." And I stop
4 5 6 7 8		That's right. Yeah, it's exactly – I mean, you discount whatever you think you're going to receive as an investor. So if you're looking at companies, you look at free cash	4 5 6 7 8		Of course, what we really want is an estimate of beta for future periods so beta estimates can and do vary through time, as illustrated in Table 9.1." And I stop there, when we're talking about betas in
4 5 6 7 8 9		That's right. Yeah, it's exactly – I mean, you discount whatever you think you're going to receive as an investor. So if you're looking at companies, you look at free cash flows; when you look at investors, you look	4 5 6 7 8 9		Of course, what we really want is an estimate of beta for future periods so beta estimates can and do vary through time, as illustrated in Table 9.1." And I stop there, when we're talking about betas in CAPM or in risk premium analysis, it's
4 5 6 7 8 9 10	A.	That's right. Yeah, it's exactly – I mean, you discount whatever you think you're going to receive as an investor. So if you're looking at companies, you look at free cash flows; when you look at investors, you look at the dividends.	4 5 6 7 8 9 10		Of course, what we really want is an estimate of beta for future periods so beta estimates can and do vary through time, as illustrated in Table 9.1." And I stop there, when we're talking about betas in CAPM or in risk premium analysis, it's actually a future beta that we're trying to
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. KELLY, Q.C.	That's right. Yeah, it's exactly – I mean, you discount whatever you think you're going to receive as an investor. So if you're looking at companies, you look at free cash flows; when you look at investors, you look at the dividends. And this is what Dr. Booth and Dr. Cleary say about limitations of the DDM. "Although the DDM provides significant insight into the factors that affect the valuation of common shares, it is based on several assumptions that are not met by a large number of firms, especially in Canada. In particular, it is best suited for companies	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		Of course, what we really want is an estimate of beta for future periods so beta estimates can and do vary through time, as illustrated in Table 9.1." And I stop there, when we're talking about betas in CAPM or in risk premium analysis, it's actually a future beta that we're trying to capture, correct? That's right, the discussion that I had yesterday, if you look back at what happened during estimation period, you have to estimate a reasonable number of things that could happen. If nothing happened during that estimation period and you use that for
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. KELLY, Q.C.	That's right. Yeah, it's exactly – I mean, you discount whatever you think you're going to receive as an investor. So if you're looking at companies, you look at free cash flows; when you look at investors, you look at the dividends. And this is what Dr. Booth and Dr. Cleary say about limitations of the DDM. "Although the DDM provides significant insight into the factors that affect the valuation of common shares, it is based on several assumptions that are not met by a large number of firms, especially in Canada. In particular, it is best suited for companies that one, pay dividends based on a stable dividend pay-out history that they want to maintain in the future; and two, are growing	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. KELLY, Q.C.	Of course, what we really want is an estimate of beta for future periods so beta estimates can and do vary through time, as illustrated in Table 9.1." And I stop there, when we're talking about betas in CAPM or in risk premium analysis, it's actually a future beta that we're trying to capture, correct? That's right, the discussion that I had yesterday, if you look back at what happened during estimation period, you have to estimate a reasonable number of things that could happen. If nothing happened during that estimation period and you use that for a future period, you're committing an error, it's a bias. If we come down to the last part of that

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1		average over the long run."	1	KELLY, Q.C.	:
2	DR. BOOTH:		2	Q.	Can we go over to 774 finally, there we go,
3	A.	That's correct.	3		a little bit further down, Samantha, please,
4	KELLY, Q.C.	:	4		another bit. There we go. In this section,
5	Q.	So not terribly useful for looking out over	5		Section 206, you write, "In the previous
6		a shorter test year period?	6		section we saw that the DCF model could be
7	DR. BOOTH:		7		rearranged to estimate the investor's
8	A.	No, I would say the critical thing there is	8		required return on a firm's common shares.
9		that if you actually use the beta estimates,	9		We also discussed how the model performs
10		they can be high, they can be low and you're	10		poorly when applied to growth stocks which
11		going to make errors unless you actually use	11		pay low dividends and/or display high growth
12		judgment in estimating and taking those	12		rates. In these situations, it makes sense
13		betas and applying them towards the future.	13		to rely more heavily on risk based models,
14		But if you mechanically do anything, whether	14		the most important risk based model is the
15		it's DCF of risk premium or multi-factor	15		capital asset pricing model, the CAPM which
16		models or anything without exercising	16		we discussed in Chapter 9." So CAPM, while
17		judgment, in the short run you're going to	17		you don't say it's only for firms which
18		make errors. Even though in the long run	18		display high growth rates and pay low
19		these errors may even out.	19		dividends, more useful for that because you
20	KELLY, Q.C.	:	20		can't use DCK over there?
21	Q.	Which is the point the BC Utilities	21	DR. BOOTH:	
22		Commission was making to you, a lot of	22	A.	Well that's right, if you're going to look
23		judgment in your risk premium analysis.	23		at them and say, well conceptually DCF and
24	DR. BOOTH:		24		CAPM are estimating exactly the same thing,
25	A.	Well no, I would not say that. I think what	25		conceptually you say, well, we start out and
		Page 106			Page 108
1		I would say to you, Mr. Kelly, is the same	1		we assume that there's 50 percent weight on
2		as I think I've said to this Board and every	2		each. If you then go and look at Apple and
3		board in Canada, if you want somebody to add	3		try to do a DCF on Apple or even worse, you
4		up a bunch of numbers, go and hire a	4		try and do BlackBerry, try and do a DCF
5		statistician. If you want somebody to tell	5		analysis on BlackBerry to estimate the
6		them what was the economic scenario that	6		equity cost, you can't do it. There's no
7		generated those numbers and what those	7		dividends, difficult to come up with growth
8		numbers mean, go and get a professor of	8		estimates, incredibly difficult. So instead
9		finance or a professor of economics. Every	9		of 50/50 in that case, you say forget about
10		data point we observe is a reflection of	10		DCF, 100 percent weight on the CAPM.
11		something that's gone on in a capital market	11	KELLY, Q.C.	
12		and the economy, and if we had gone through,	12	Q.	And one of the problems that you have and
13		back in 2003 and said, well the betas for	13		what kind of motivates looking to the United
14		utilities are zero, because during that	14		States is the fact that you have a small
15		period Nortel was going up and utilities	15		sample in Canada that you could do a DCF
16		weren't varying and I had recommended a zero	16		analysis on?
17		risk premium for a utility, I would have	17	DR. BOOTH:	
18		been laughed out of the room, but that's	18	A.	That's true, as I mentioned, when I started
19		what the statistics tell us and if you hired	19		doing this 1985, the first time I entered
20		a statistician, they'll tell you, well, that	20		testimony before the CRTC, we actually had
21		is the statistic, but an economist or a	21		Newfoundland Telephone, it was called Newtel
22		professor of finance, somebody who	22		at the time, it created a parent, but we had
23		understands what's going on would be able to	23		Island Telephone, we had New Brunswick
24		inform the Board and say, don't look at	24		Telephone, we had BC Telephone, we had Bell
25		that, and that's exactly what I do.	25		Canada, we had Quebec Telephone, we had

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1		Maritime Electric, we had Consumer's Gas, we	1	adjustments.	
2		had Unicor, which owns Uni Gas, we had	2	KELLY, Q.C.	
3		Specific Northern Gas, we had a lot of	3	Q. Right, that's the quotes whi	ich we had on the
4		utilities, we could do a lot of things. Now	4	screen earlier from CANP-	
5		we're stuck with a sample of five companies,	5	of American data, correct?	,
6		TransCanada and Enbridge are rapidly moving	6	DR. BOOTH:	
7		into the United States. Fortis is now	7	A. That's right, I have no prob	olem with looking
8		buying U.S. regulated assets with abandon,	8	at American data as long as	-
9		so we've got Canadian utilities, we've got	9	appropriate adjustments.	, we mane
10		Emera. The AUC basically said the only	10	KELLY, Q.C.:	
11		companies they're bothered about in terms of	11	Q. Okay. Mr. Chairman, mak	ing good time. I'm
12		doing a DCF analysis are Emera and Fortis.	12	about to move to another a	
13		The rest of them is just, that's what we got	13	now or we can break now a	
14		left.	14	the break.	ind continue arter
15	KELLY, Q.C		15	CHAIRMAN:	
16		So consistent with this Board's approach we	16	Q. What would you prefer to o	102
1	Q.	look at a risk premium analysis and we look	17	KELLY, Q.C.:	10 :
17		÷	18		
18		to a DCF analysis incorporating U.S.	ı	A. I'm in your hands. CHAIRMAN:	
19		utilities because it gives us perspective,	19		do vyout to busely
20		it gives us a broader sense of what's	20	Q. What do you guys want to	do, want to break
21	DD DOOTH	happening in the equity markets, agreed?	21	now or carry on?	
22	DR. BOOTH:		22	VICE-CHAIR WHALEN:	
23	A.	That's right. Conceptually, Mr. Kelly, you	23	Q. We'd rather carry on.	
24		can look at anything. You can look at the	24	CHAIRMAN:	
25		cap asset price model allows you to make	25	Q. Carry on.	
		Page 110			Page 112
1		risk adjustments for any securities. So you	1	KELLY, Q.C.:	
2		can actually look at Apple and if you wanted	2	Q. Thank you. Dr. Booth, I wa	-
3		to estimate the fair return on Apple and	3	gears a bit now and talk a bi	t about
4		then make a risk adjustment from Apple to	4	business risk and the last tin	
5		the regulated utility. That's what the cap	5	here, I guess in 2012, the Ca	•
6		asset pricing model and other factor models	6	was doing pretty well and yo	ou were kind of
7		do, they make risk adjustments. So I have	7	referring to it as running on	all cylinders?
8		no problem, in fact, I would say that we now	8	DR. BOOTH:	
9		have to look at U.S. evidence more than any	9	A. No, Mark Carney, the Gover	rnor of the Bank of
10		other time since I've been testifying simply	10	Canada was describing the f	•
11		because even the Canadian companies are less	11	as firing on all cylinders. W	e still have a
12		useful than they were even three years ago	12	little bit of spare capacity in	the economy,
13		and I suspect that when we come back, if we	13	but Canada was in pretty go	od shape.
14		come back in three years' time, we'll	14	KELLY, Q.C.:	
15		probably have to say, well Fortis is now 80	15	Q. Right, and would it be fair for	or me to
16		percent U.S. and we have to knock out Fortis	16	observe that at least since th	en we seemed
17		if we're going to do that and Enbridge and	17	to have lost two of the spark	plugs, Alberta
18		TransCanada, there could be even bigger	18	and Newfoundland due to the	e collapse of oil
19		problems. So our Canadian sample is just	19	and commodity prices?	
20		getting smaller and smaller and smaller, so	20	DR. BOOTH:	
21		I agree with the National Energy Board, with	21	A. I think Saskatchewan would	say they're a
22		the BCUC, we have to look at the U.S. or the	22	little bit of a spark plug.	· •
23		U.K. or Germany or Japan, other countries,	23	KELLY, Q.C.:	
24		and estimate and see what they're doing for	24	Q. Well let's put Saskatchewan	in there too
1		their utilities and make appropriate risk	25	then.	
25		men unnnes and make appropriate risk	43	uicii.	

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1	DR. BOOTH:		1	KELLY, Q.C.	:
2	A.	I think it's fair to say the concerns over	2	Q.	Right, and there's an RFI on that, but I
3		China over the last 18 months has really led	3		don't think I need to take you there. Now,
4		to a decline in commodity prices that's	4		let's go to Report 4 in the Newfoundland
5		leading to a readjustment of the Canadian	5		Power evidence and Samantha, if we go over
6		economy back to where it was, say ten years	6		to page 5, there we go. Bear with me for a
7		ago if those prices continue at a level	7		second. If you come over to page 5 and you
8		they're at the moment.	8		come down to the second paragraph, Dr.
9	KELLY, Q.C.	•	9		Booth, energy sales under proposed rates,
10	Q.	Right, and in this province we have not only	10		this is towards the end of the paragraph,
11	Q.	oil which has certainly decimated the	11		"energy sales under proposed rates, which
12		provincial treasury, but minerals, in	12		includes the elasticity effects of the
13		particular iron ore and the Labrador economy	13		proposed 2.5 percent increase are forecast
1		1	ı		1 1 1
14	DD DOOTH.	has been devastating on this province.	14		to be .6 percent in 2016 and 0.1 percent in
15	DR. BOOTH:	V 1 '11' ' 11'	15	DD DOOTH	2017." Agree?
16	A.	Yeah, nickel prices particularly in	16	DR. BOOTH:	
17		Labrador, I suspect, I mean, I haven't	17	A.	Well I'm still trying to find it, but I have
18		tracked nickel for awhile, but basically all	18		no problem with that. No, that's okay.
19		commodities are coming down. As I mentioned	19	KELLY, Q.C.	
20		in my direct yesterday, until a short period	20	Q.	I do want you to have a look at it.
21		ago China was adding electrical capacity of	21	DR. BOOTH:	
22		the U.K. every year. I found that statistic	22	A.	So where are we on the page?
23		absolutely amazing and all of that	23	KELLY, Q.C.	
24		electrical capacity needs cooper, needs	24	Q.	We're in the second paragraph down on the
25		fuel, needs everything.	25		screen.
		idel, needs everything.			5010011:
		Page 114			Page 116
1	KELLY, Q.C	Page 114	1	DR. BOOTH:	
1 2	KELLY, Q.C Q.	Page 114	1 2	DR. BOOTH:	Page 116
1		Page 114	1		
1 2		Page 114 .: And we had the conference board report on the screen earlier when Mr. Coyne was	1 2		Page 116 It starts, "Given the province's struggling economy"?
1 2 3 4		Page 114 .: And we had the conference board report on	1 2 3	A. KELLY, Q.C.:	Page 116 It starts, "Given the province's struggling economy"?
1 2 3 4 5		Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government	1 2 3 4	A.	Page 116 It starts, "Given the province's struggling economy"?
1 2 3 4 5 6		Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share	1 2 3 4	A. KELLY, Q.C.: Q. DR. BOOTH:	Page 116 It starts, "Given the province's struggling economy"? Yes.
1 2 3 4 5 6 7	Q.	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view?	1 2 3 4 5 6 7	A. KELLY, Q.C.: Q.	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no
1 2 3 4 5 6 7 8	Q. DR. BOOTH	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view?	1 2 3 4 5 6 7 8	A. KELLY, Q.C.: Q. DR. BOOTH:	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural
1 2 3 4 5 6 7 8 9	Q.	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly,	1 2 3 4 5 6 7 8 9	A. KELLY, Q.C.: Q. DR. BOOTH:	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the
1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly, unfortunately governments have a habit of	1 2 3 4 5 6 7 8 9	A. KELLY, Q.C.: Q. DR. BOOTH:	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the economy is not as strong as it was a few
1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly, unfortunately governments have a habit of thinking the good times last forever, so	1 2 3 4 5 6 7 8 9 10	A. KELLY, Q.C.: Q. DR. BOOTH: A.	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the economy is not as strong as it was a few years ago. That's indisputable.
1 2 3 4 5 6 7 8 9 10 11 12	Q. DR. BOOTH	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly, unfortunately governments have a habit of thinking the good times last forever, so when they get extra revenues, they spend it	1 2 3 4 5 6 7 8 9 10 11 12	A. KELLY, Q.C.: Q. DR. BOOTH: A.	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the economy is not as strong as it was a few years ago. That's indisputable.
1 2 3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly, unfortunately governments have a habit of thinking the good times last forever, so when they get extra revenues, they spend it and then when the poor times come along,	1 2 3 4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C.: Q. DR. BOOTH: A.	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the economy is not as strong as it was a few years ago. That's indisputable. And this is the forecast, sales forecast
1 2 3 4 5 6 7 8 9 10 11 12 13 14	Q. DR. BOOTH A.	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly, unfortunately governments have a habit of thinking the good times last forever, so when they get extra revenues, they spend it and then when the poor times come along, they go deficits and the situation is grim.	1 2 3 4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C.: Q. DR. BOOTH: A.	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the economy is not as strong as it was a few years ago. That's indisputable. And this is the forecast, sales forecast which is being accepted, so were you here
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. DR. BOOTH A.	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly, unfortunately governments have a habit of thinking the good times last forever, so when they get extra revenues, they spend it and then when the poor times come along, they go deficits and the situation is grim.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. KELLY, Q.C.: Q. DR. BOOTH: A.	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the economy is not as strong as it was a few years ago. That's indisputable. And this is the forecast, sales forecast which is being accepted, so were you here for Mr. Smith's testimony earlier in the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. DR. BOOTH A.	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly, unfortunately governments have a habit of thinking the good times last forever, so when they get extra revenues, they spend it and then when the poor times come along, they go deficits and the situation is grim. Right, okay, and in terms of business risk,	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. KELLY, Q.C.: Q. DR. BOOTH: A.	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the economy is not as strong as it was a few years ago. That's indisputable. And this is the forecast, sales forecast which is being accepted, so were you here for Mr. Smith's testimony earlier in the hearing or did you read the transcript in
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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. BOOTH A. KELLY, Q.C Q.	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly, unfortunately governments have a habit of thinking the good times last forever, so when they get extra revenues, they spend it and then when the poor times come along, they go deficits and the situation is grim. Right, okay, and in terms of business risk, you would agree that business risk is based on the Newfoundland economy, business risk for Newfoundland Power is based on the situation in the Newfoundland economy, not the Canadian or global economy.	1 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. BOOTH: A. KELLY, Q.C.: Q.	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the economy is not as strong as it was a few years ago. That's indisputable. And this is the forecast, sales forecast which is being accepted, so were you here for Mr. Smith's testimony earlier in the hearing or did you read the transcript in which he explained, together with Ms. Perry, that Newfoundland Power has historically had about a one percent sales growth year over year? Well I can't remember who mentioned that one
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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. BOOTH A. KELLY, Q.C Q.	Page 114 And we had the conference board report on the screen earlier when Mr. Coyne was testifying where they called the situation in Newfoundland grim with the government looking at austerity measures. Do you share that view? Unfortunately—I'm aware of that, Mr. Kelly, unfortunately governments have a habit of thinking the good times last forever, so when they get extra revenues, they spend it and then when the poor times come along, they go deficits and the situation is grim. Right, okay, and in terms of business risk, you would agree that business risk is based on the Newfoundland economy, business risk for Newfoundland Power is based on the situation in the Newfoundland economy, not the Canadian or global economy.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. KELLY, Q.C.: Q. DR. BOOTH: A. KELLY, Q.C.: Q.	Page 116 It starts, "Given the province's struggling economy"? Yes. Okay. Yeah, I think, look, there's no question that the problem with natural resource prices has hit Newfoundland and the economy is not as strong as it was a few years ago. That's indisputable. And this is the forecast, sales forecast which is being accepted, so were you here for Mr. Smith's testimony earlier in the hearing or did you read the transcript in which he explained, together with Ms. Perry, that Newfoundland Power has historically had about a one percent sales growth year over year? Well I can't remember who mentioned that one percent, but my understanding is one percent sales growth, yes.

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1	Q.	Yeah, okay. So we're going from one percent	1		horizon, once you get out of the test year,
2		sales growth to essentially no sales growth	2		you don't have that contribution to offset
3		in 2017?	3		increases in operating expense, agreed?
4	DR. BOOTH:		4	DR. BOOTH:	
5	A.	So is that sales volume or is that dollars?	5	A.	That's right, as a result prices go up.
6	KELLY, Q.C.		6	KELLY, Q.C.:	
7	Q.	No, that's kilowatt hours.	7		Then you got to come back in and make an
8	DR. BOOTH:	,	8		application if you're going to go down that
9	A.	Okay, fine, so it's volume.	9		road.
10	KELLY, Q.C.	· · · · · · · · · · · · · · · · · · ·	10	DR. BOOTH:	
11	Q.	It's volume.	11		Well that's right, but I mean, it's the job
12	DR. BOOTH:		12		of the utility to forecast these things and
13	A.	It's energy use.	13		build them into rates.
14	KELLY, Q.C.	•••	14	KELLY, Q.C.:	
15	Q.	Energy use, okay. Now, Mr. Smith also	15		Okay, so hold that thought because I do want
16		explained and we can go to the transcript if	16		to come back to that one. The second thing
17		you want to see it, that one percent equates	17		that the contribution gives you is that it
18		to about 6.5 million in revenue, but you got	18		helps cover the cost of financing the
19		to talk out the purchase power cost or about	19		capital improvements until the next general
20		2 million dollars once you remove the	20		rate application when they get incorporated
21		purchase power expense, so you'll accept	21		in the rate base because in this
22		that?	22		jurisdiction, you don't get any compensation
23	DR. BOOTH:		23		for it until it gets in the rate base.
24	A.	I have no reason to doubt it.	24	DR. BOOTH:	To it with it gots in the rate oase.
25	KELLY, Q.C.		25	A.	That's right, normally you don't want to
	, (Page 118		•	Page 120
1	Q.	Okay. Now, would you agree with me that	1		charge current customers for assets that are
2	Q.	that revenue, that contribution in sales	$\frac{1}{2}$		not in use.
$\frac{2}{3}$		growth is important because it offsets	3	KELLY, Q.C.	
4		increases in operating costs between test	4	Q.	Well they got to get built, but even when
5		years, that's one of the things that that	5	ζ.	they're built and in service, they don't get
6		sales growth allows.	6		compensated for it until the next GRA, so
7	DR. BOOTH		7		that incremental growth helps cover those
8	A.	Let's back up a little bit. The question is	8		two factors between GRAs.
9	A.	how does the growth affect the business risk	9	DR. BOOTH:	
10		and the utility, which I think is what	10	A.	Yeah, I think it's fair to say, Mr. Kelly,
11		you're saying, and what you're doing is	11	A.	that growth is generally a good thing.
12		pointing out that when a utility grows, the	12	KELLY, Q.C.	
13		bulk of its assets are fixed and the bulk of	13	Q.	Okay, and so we can agree on those two
14		its expenses are fixed, so if you happen to	14	Q.	principles to start off with, can we?
15		sell more kilowatt hours and sales grow up,	15	DR. BOOTH:	principles to start our with, call we!
16		you're spreading them over, the costs over a	16	A.	Well I would have to think a little bit more
17		large number of units, so the cost of the	17	Λ.	about the impact of the kilowatt hours, but
18		unit of power goes down and that makes the	18		the general proposition that growth allows
19		÷	19		the spreading of fixed costs and as a
20		energy source more competitive in in fact	ı		result, minimizes increases in rates for
1		there is any competition. So growth, given	20		· ·
21		in a fixed cost production, results in lower	21 22	KELLY, Q.C.	customers is correct.
1 22				RELLI UU	
22	VELLY O	costs.			
23	KELLY, Q.C	.:	23	Q.	Right. So one of the risks or problems of
1	KELLY, Q.C Q.				

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1		between test year periods or until the next	1		qualitative risk assessments, sort of like
2		GRA?	2		the one that you're assessing here, and it
3	DR. BOOTH:		3		sounds like it's incredibly risky and I have
4	A.	It depends how good the company is who	4		to admit, the first time I testified I
5		forecast it.	5		listened to the grand old man of utility
6	KELLY, Q.C.	:	6		witnesses at that time, someone called
7	Q.	Well the forecast will only cover the test	7		Steven Sherwood and I thought, God, that's
8		year.	8		convincing, this utility must be incredibly
9	DR. BOOTH:		9		risky and then I looked at it and I heard it
10	A.	That's correct.	10		again the next year and I just kept looking
11	KELLY, Q.C.	:	11		at the ability of the utility to earn its
12	Q.	If you're going to be beyond the test year,	12		allowed ROE, so you can come up with these
13		you lose that contribution.	13		scenarios and posit increasing risk and you
14	DR. BOOTH:		14		say, well, this is normal, these are the
15	A.	I'd have to think about that, Mr. Kelly,	15		normal sort of risks faced by utilities, has
16		it's not something that I've gone into, but	16		this caused problems for the utility in the
17		_	17		past, and that's what I look at, has there
18	KELLY, Q.C.		18		been any significant problems in the ability
19	Q.	Well that's a good point to pick up because	19		of Newfoundland Power to earn its allowed
20		this is not something that you've looked at	20		ROE either from its forecasting areas and in
21		in terms of utility analysis, I take it?	21		the forecasting areas we tend to be
22	DR. BOOTH:		22		conservative or I tend to see utilities
23	A.	Well when you look at these issues, Mr.	23		being conservative or I tend to see
24		Kelly, you have to look at it in the context	24		utilities being conservative. So if you're
25		of is there anything unusual about this, and	25		pushing this forward as a risk, I would
		Page 122			Page 124
1		going back over the last 25 years for the	1		suspect Newfoundland Power has been in the
2		province, we've had periods of very good	2		situation before over the last 25 years.
3		economic growth; we've had periods of not	3	KELLY, Q.C.	*
4		very good economic growth. We've had	4	Q.	We're going to continue that discussion, but
5		periods of bad winter storms; we've had	5	`	I want to get the elements out there first.
6		periods where we had mild winter storms.	6		One is the lost of contribution and we know
7		We've had, I would suspect most of the	7		the order of magnitude, one percent is about
8		underlying risks that affect the utility, so	8		2 million dollars. Now the next thing and
9		I don't look at an individual factor, I just	9		you've alluded to this already, is forecast
10		look at, well, what is the upshot of these,	10		risk, if the forecast turns out, if the
11		what does it really mean in terms of the	11		economic impacts turn out to be worse than
12		performance of the utility, which is why I	12		anticipated, let's say we had a further, a
13		look at the ability of the utility to earn	13		one percent reduction, not flat but a one
14		its allowed ROE. So I would grant you that	14		percent reduction, then not only would we
15		there may be some issues, I'd have to get	15		lose the 2 million in contribution, we'd
16		into these in more detail, but the upshot is	16		lose the 2 million for the one percent
17		this must have been seen before over the	17		reduction; basic math, agreed?
18		last 25 years.	18	DR. BOOTH:	
19	KELLY, Q.C.	•	19	A.	Yeah, assuming the utility doesn't react and
20	Q.	But you haven't really analyzed this, I take	20		the utility reacts.
21		it, from your answer?	21	KELLY, Q.C.	•
22	DR. BOOTH:	· · · · · · · · · · · · · · · · · · ·	22	Q.	Well you keep that point in mind because
23	A.	No, and there's no need for me to analyze	23		we're going to be coming to that one.
24		it. I've been involved in hearings where	24	DR. BOOTH:	
25		utility witnesses produce all of these	25	A.	Okay.
		:			

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1	KELLY, Q.C	:	1		improvement in the system for the next
2	Q.	Now, that's just with the current costs,	2		several years, I'm aware of that.
3		right?	3	KELLY, Q.C.:	
4	DR. BOOTH:	_	4	Q.	And so those costs, that .6 of a billion is
5	A.	Yes.	5		24 percent, approximately, of the existing
6	KELLY, Q.C.	:	6		rate base of the province, so it's a big
7	Q.	The Board would be quite knowledgeable of	7		impact just in that, even before we get to
8		its regulatory agenda and it has before it	8		Muskrat Falls, agreed?
9		already a host of costs related to	9	DR. BOOTH:	, 6
10		Newfoundland and Labrador Hydro. Do you	10	A.	Well that's generally true and generally a
11		have any familiarity with that, those	11		utility is like that.
12		operating and –	12	KELLY, Q.C.:	•
13	DR. BOOTH:	•	13	Q.	Mr. Chairman, this is now a good time to
14	A.	Are you referring to the Hydro costs?	14		break. We'll pick up afterwards.
15	KELLY, Q.C.		15	CHAIRMAN:	The second secon
16	Q.	Newfoundland and Labrador Hydro, which	16	Q.	Okay.
17	ζ.	eventually flowed through to Newfoundland	17	ζ.	(RECESS – 11:00 A.M.)
18		Power rates, do you have any knowledge of	18		(RETURN – 11:34 A.M.)
19		the regulatory agenda involving the Board	19	CHAIRMAN:	(10.1014)
20		over that?	20	Q.	So, Mr. Kelly, once more into the breach,
21	DR. BOOTH:		21	٧.	sir.
$\begin{vmatrix} 21 \\ 22 \end{vmatrix}$	A.	I would imagine it's extensive given the	22	KELLY, Q.C.:	
23	71.	fact that it's such a huge project.	23	Q.	Thank you, Mr. Chairman. Dr. Booth, we were
24	KELLY, Q.C.	÷	24	٧.	talking about costs coming on the system
25	Q.	Well quite apart from Muskrat Falls there	25		when we broke for the break and when we were
F	<u> </u>	Page 126			Page 128
1		C	1		doing that, I hadn't included the almost 12
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$		are a host of cost applications before the Board over the existing system.	$\begin{array}{ c c }\hline 1\\ 2\end{array}$		million dollars which are coming for the
$\frac{2}{3}$	DR. BOOTH:	Board over the existing system.	$\frac{2}{3}$		problems we've had over the past winter for
1	DK. BUUTH.		ו כו		problems we ve had over the past winter for
1 /	٨	I would avneat that Mr Vally	l		*
4	A.	I would expect that, Mr. Kelly.	4		replacing the boiler tubes out at Units 1
5	KELLY, Q.C.	:	4 5		replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any
1		: Let me just give you some order of magnitude	4 5 6	DR DOOTH	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that?
5 6 7	KELLY, Q.C.	: Let me just give you some order of magnitude on the capital side, 119 million for 100	4 5 6 7	DR. BOOTH:	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that?
5 6 7 8	KELLY, Q.C.	: Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV	4 5 6 7 8	A.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No.
5 6 7 8 9	KELLY, Q.C.	: Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's	4 5 6 7 8 9	A. KELLY, Q.C.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No.
5 6 7 8 9 10	KELLY, Q.C.	: Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's	4 5 6 7 8 9 10	A.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in
5 6 7 8 9 10 11	KELLY, Q.C.	: Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's 2016 capital budget which is 610 million or	4 5 6 7 8 9 10 11	A. KELLY, Q.C.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in comparison to what's coming on the hill,
5 6 7 8 9 10 11 12	KELLY, Q.C.	Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's 2016 capital budget which is 610 million or .6 billion coming, that have either been	4 5 6 7 8 9 10 11 12	A. KELLY, Q.C.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in comparison to what's coming on the hill, which is Muskrat Falls, 9 billion or so and
5 6 7 8 9 10 11 12 13	KELLY, Q.C.	Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's 2016 capital budget which is 610 million or .6 billion coming, that have either been approved or pending before the Board, bulk	4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in comparison to what's coming on the hill, which is Muskrat Falls, 9 billion or so and projected price increases in the price of
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5 6 7 8 9 10 11 12 13 14 15	KELLY, Q.C.	Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's 2016 capital budget which is 610 million or 6 billion coming, that have either been approved or pending before the Board, bulk of it already approved, right? So that cost pressure, quite apart from Muskrat Falls,	4 5 6 7 8 9 10 11 12 13 14 15	A. KELLY, Q.C.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in comparison to what's coming on the hill, which is Muskrat Falls, 9 billion or so and projected price increases in the price of electricity of 50 percent or more, do you have a general familiarity at least with
5 6 7 8 9 10 11 12 13 14 15 16	KELLY, Q.C.	Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's 2016 capital budget which is 610 million or .6 billion coming, that have either been approved or pending before the Board, bulk of it already approved, right? So that cost pressure, quite apart from Muskrat Falls, approved by the Board with one minor	4 5 6 7 8 9 10 11 12 13 14 15 16	A. KELLY, Q.C. Q.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in comparison to what's coming on the hill, which is Muskrat Falls, 9 billion or so and projected price increases in the price of electricity of 50 percent or more, do you have a general familiarity at least with that?
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	KELLY, Q.C. Q.	Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's 2016 capital budget which is 610 million or .6 billion coming, that have either been approved or pending before the Board, bulk of it already approved, right? So that cost pressure, quite apart from Muskrat Falls, approved by the Board with one minor qualification, is coming into the system over the next number of years. Do you have a sense of that?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in comparison to what's coming on the hill, which is Muskrat Falls, 9 billion or so and projected price increases in the price of electricity of 50 percent or more, do you have a general familiarity at least with that? I have a general familiarity with that. Okay, can I take you, it's still on the screen, can I take you back a page in the
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	KELLY, Q.C. Q. DR. BOOTH:	Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's 2016 capital budget which is 610 million or .6 billion coming, that have either been approved or pending before the Board, bulk of it already approved, right? So that cost pressure, quite apart from Muskrat Falls, approved by the Board with one minor qualification, is coming into the system over the next number of years. Do you have a sense of that? I had some idea that there were significant projects and I know the company's	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. BOOTH: A. KELLY, Q.C.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in comparison to what's coming on the hill, which is Muskrat Falls, 9 billion or so and projected price increases in the price of electricity of 50 percent or more, do you have a general familiarity at least with that? I have a general familiarity with that. Cokay, can I take you, it's still on the screen, can I take you back a page in the forecast to the top of page 4, there you go.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	KELLY, Q.C. Q. DR. BOOTH:	Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's 2016 capital budget which is 610 million or .6 billion coming, that have either been approved or pending before the Board, bulk of it already approved, right? So that cost pressure, quite apart from Muskrat Falls, approved by the Board with one minor qualification, is coming into the system over the next number of years. Do you have a sense of that? I had some idea that there were significant projects and I know the company's forecasting capital expenditures in the	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in comparison to what's coming on the hill, which is Muskrat Falls, 9 billion or so and projected price increases in the price of electricity of 50 percent or more, do you have a general familiarity at least with that? I have a general familiarity with that. Okay, can I take you, it's still on the screen, can I take you back a page in the forecast to the top of page 4, there you go. And if you come down to the second line, it
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	KELLY, Q.C. Q. DR. BOOTH:	Let me just give you some order of magnitude on the capital side, 119 million for 100 megawatt gas turbine; 230 million for 230 kV transmission line; 77 million in Hydro's 2015 capital budget; 184 million for Hydro's 2016 capital budget which is 610 million or .6 billion coming, that have either been approved or pending before the Board, bulk of it already approved, right? So that cost pressure, quite apart from Muskrat Falls, approved by the Board with one minor qualification, is coming into the system over the next number of years. Do you have a sense of that? I had some idea that there were significant projects and I know the company's	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. BOOTH: A. KELLY, Q.C.	replacing the boiler tubes out at Units 1 and 2 on the Holyrood Plant, do you have any familiarity with that? No. And of course, all of that pales in comparison to what's coming on the hill, which is Muskrat Falls, 9 billion or so and projected price increases in the price of electricity of 50 percent or more, do you have a general familiarity at least with that? I have a general familiarity with that. Cokay, can I take you, it's still on the screen, can I take you back a page in the forecast to the top of page 4, there you go.

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		Page 129			Page 131
1		inelastic. A one percent change I the price	1	DR. BOOTH:	
2		of electricity will result in a change in	2	A.	Oh I think there's absolutely no question
3		energy sales of less than one percent.	3		that going out to 2018 and beyond, there may
4		Current analysis indicates that a one	4		be problems with the cost of power coming
5		percent increase in the price of electricity	5		through as a result of Muskrat Falls,
6		will result in a 0.2 percent decrease in	6		there's no question about that.
7		energy sales." Do you agree with that?	7	KELLY, Q.C.:	· · · · · · · · · · · · · · · · · · ·
8	DR. BOOTH		8	Q.	Okay, can we go to NPCA-036 and this is a
9	A.	I do.	9	Q.	question which was put to you about the
10	KELLY, Q.C		10		impact of the Newfoundland economy and you
11		And if that's one percent, the statistician	11		make the observation, beginning at line 10,
12	Q.	<u> </u>	12		
1		in me tells me that a 50 percent increase is	ı		"Dr. Booth judges it to have relatively
13	DD DOOTH	a 10 decrease in sales?	13		little impact as the demand for electricity
14	DR. BOOTH		14		is not very price or income sensitive." And
15	A.	Mr. Kelly, the statistician will tell you,	15		first of all, I take it you haven't
16		and you would tell you it's probably a	16		specifically studied the price elasticity of
17	WDI	nonlinear relationship.	17	DD D0077	electricity.
18	KELLY, Q.C		18	DR. BOOTH:	
19	Q.	Right, which is exactly the point, Dr.	19	A.	No, the last time I looked at that was about
20		Booth, that what that introduces is a whole	20		15, 20 years ago when there was a study done
21		bunch of uncertainty, doesn't it?	21		and published by the Government of Canada,
22	DR. BOOTH		22		but the fact is people don't turn their
23	A.	Well I would say –	23		lights out and there may be an immediate
24	KELLY, Q.C	.:	24		impact when, whoa we're paying a lot, but
25	Q.	Because you can't tell me what that	25		people adjust to it which is why in part I
		Page 130			Page 132
1		relationship is going to be, can you?	1		look at the cost of 1000 kilowatt hours
2	DR. BOOTH:		2		across Canada. People adjust to it and
3	A.	No, that's absolutely correct, I'd have to	3		they're not going to freeze because the
4		do a demand analysis and I haven't done one.	4		price of electricity has gone up and they're
5	KELLY, Q.C.	•	5		not going to stop paying—they're not going
6	Q.	No, and it would be very difficult to	6		to kick their son off playing video games in
1 7	`	predict that because you're trying to judge	7		the den because of, hey, that's costing a
8		how people are going to react	8		lot of money. There's a temporary phenomena
9		psychologically to this problem, as well as	9		that may be price shock and then there's the
10		economically?	10		long-run impact.
11	DR. BOOTH:		11	KELLY, Q.C.:	• •
12	A.	That is true, that's why I put out the cost	12	Q.	But you haven't studied it? Then you go on
13	-	of power for 1000 kilowatt user across	13		_
14		1	l	DR. BOOTH:	
		different jurisdictions because we can say	14	עוויטאט. אע	l l
1		different jurisdictions because we can say, for example in New York, the cost of power	14 15		All I can say is that I'm surprised that
15		for example in New York, the cost of power	15	A.	All I can say is that I'm surprised that it's .2. I would have thought it was less
15 16		for example in New York, the cost of power is ridiculous compared to St. John's and we	15 16		it's .2, I would have thought it was less
15 16 17		for example in New York, the cost of power is ridiculous compared to St. John's and we can see that St. John's is cheaper than	15 16 17		it's .2, I would have thought it was less than that. I would have thought it was even
15 16 17 18		for example in New York, the cost of power is ridiculous compared to St. John's and we can see that St. John's is cheaper than Toronto, so there are significant	15 16 17 18	A.	it's .2, I would have thought it was less than that. I would have thought it was even less price sensitive.
15 16 17 18 19		for example in New York, the cost of power is ridiculous compared to St. John's and we can see that St. John's is cheaper than Toronto, so there are significant differences across different metropolitan	15 16 17 18 19	A. KELLY, Q.C.	it's .2, I would have thought it was less than that. I would have thought it was even less price sensitive.
15 16 17 18 19 20	KELLY O.C.	for example in New York, the cost of power is ridiculous compared to St. John's and we can see that St. John's is cheaper than Toronto, so there are significant differences across different metropolitan areas.	15 16 17 18 19 20	A. KELLY, Q.C.: Q.	it's .2, I would have thought it was less than that. I would have thought it was even less price sensitive.
15 16 17 18 19 20 21	KELLY, Q.C.	for example in New York, the cost of power is ridiculous compared to St. John's and we can see that St. John's is cheaper than Toronto, so there are significant differences across different metropolitan areas.	15 16 17 18 19 20 21	A. KELLY, Q.C. Q. DR. BOOTH:	it's .2, I would have thought it was less than that. I would have thought it was even less price sensitive. Utility has studied it.
15 16 17 18 19 20 21 22	KELLY, Q.C. Q.	for example in New York, the cost of power is ridiculous compared to St. John's and we can see that St. John's is cheaper than Toronto, so there are significant differences across different metropolitan areas. So one of the other risks that we know is	15 16 17 18 19 20 21 22	A. KELLY, Q.C.: Q. DR. BOOTH: A.	it's .2, I would have thought it was less than that. I would have thought it was even less price sensitive. Utility has studied it. Yeah, I know.
15 16 17 18 19 20 21 22 23		for example in New York, the cost of power is ridiculous compared to St. John's and we can see that St. John's is cheaper than Toronto, so there are significant differences across different metropolitan areas. So one of the other risks that we know is coming is at least a sales risk as we have	15 16 17 18 19 20 21 22 23	A. KELLY, Q.C.: Q. DR. BOOTH: A. KELLY, Q.C.:	it's .2, I would have thought it was less than that. I would have thought it was even less price sensitive. Utility has studied it. Yeah, I know.
15 16 17 18 19 20 21 22		for example in New York, the cost of power is ridiculous compared to St. John's and we can see that St. John's is cheaper than Toronto, so there are significant differences across different metropolitan areas. So one of the other risks that we know is	15 16 17 18 19 20 21 22	A. KELLY, Q.C.: Q. DR. BOOTH: A.	it's .2, I would have thought it was less than that. I would have thought it was even less price sensitive. Utility has studied it. Yeah, I know.

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that a minute ago, "or the long-run death spiral if the customer rate base can no honger support Newfoundland Power's indinstructure." You then say "The former is covered by the band around Newfoundland Power's stop you there, we know there is a 14 basis points band around the Newfoundland Power's points band around the Newfoundland Power's points band around the Newfoundland Power also are saying is the rate of return, agreed? 10			Page 133			Page 135
that a minute ago, "or the long-run death spiral if the customer rate base can no spiral indicated before, if sa question of utility witnesses and counsel say, well this time if sdifferent. The spiral is different. We've faced these risks for a far, but this time it's different. Spiral if the customer and a stable of a spiral in the strong point to power saying is the rate who when usually too are saying is the risk that we talked about for contribution risk, deteriorating economy, could result in Newfoundland Power, the saying is the rate when the spiral power is a spiral in the spiral power is a spiral power is a spira	1		business risk is either through short-run	1		less of cost advantage and yet during that
that a mirrute ago, "or the long-run death spiral if the customer rate base can no longer support Newfoundland Power's infinstructure." You then say "The former is covered by the band around Newfoundland Power's allowed ROF." And if I can just stop you there, we know there is a 40 basis points band around the Newfoundland Power's rate of return, agreed? 10	2		-	2		• •
spiral if the customer rate base can no longer support Newfoundland Power's infinstructure. You then say "The former is covered by the hand around Newfoundland Power's stop you there, we know there is a 40 basis points band around the Newfoundland Power's 10 power's allowed ROE." And if I can just stop you there, we know there is a 40 basis points band around the Newfoundland Power's 11 rate of return, agreed? 10 PR BOOTH: 11 PR SELLY, Q.C.: 12 Q. Approximately, yeah. 13 A. A pyroximately, yeah. 14 KELLY, Q.C. approximately, and essentially what you are 15 power saying is the risk that we talked about for contribution risk, deteriorating economy, 18 could result in Newfoundland Power, the lower band of the ROE? 12 DR BOOTH: 13 A. There's a possibility that if these risks are material and that they fail to forecast and manage those risks properly, which would be a first compared to the last 25 years. Hen they may actually under earn for the first time. 14 CREATED, Approximately, 20 power doesn't earn its allowed 24 ROE and instead of 24 ROE and instead of 25 powers. 15 Page 134 Page 134 Page 134 Page 136 SELLY, Q.C.: 16 DR BOOTH: 17 And may go under the band? 25 powers when they may actually under earn for the first time. 18 Page 134 Page 134 Page 136 SELLY, Q.C.: 19 DR BOOTH: 20 Page 134 Page 134 Page 136 SELLY, Q.C.: 21 DR BOOTH: 22 A It may go—exactly, the risk is supposed to be, you possibly gain, you possibly lose. 23 A It may go—exactly, the risk is supposed to be, you possibly gain, you possibly lose. 24 SELLY, Q.C.: 25 Page 134 Page 136 Sitting with these applications before it, obviously. 26 Obviously. 27 SELLY, Q.C.: 28 Page 136 Sitting with these applications before it, obviously. 29 Obviously. 20 Page 134 Page 136 Sitting with these applications before it, obviously. 29 Page 136 Sitting with these applications before it, obviously. 29 Page 136 Sitting with these applications before it, obviously. 30 Page 136 Sitting with these applications before it, obviously. 31 DR BOOTH: 32 Page 136 Sitting with	1		<u> </u>			*
Section Sect	1		•			•
infrastructure," You then say "The former is covered by the band around Newfoundland Power's allowed ROE." And if I can just stop you there, we know there is a 40 basis points band around the Newfoundland Power's rate of return, agreed? DR. BOOTH: DR. BOOTH: Q. Approximately, yeah. KELLY, Q.C.: Q. Approximately, wand essentially what you are saying is the risk that we talked about for contribution risk, deteriorating economy, could result in Newfoundland Power, the lower band of the ROE? DR. BOOTH: DR. BOOTH: DR. BOOTH: DR. BOOTH: A. It may go—exactly, the risk is supposed to be, you possibly gain, you possibly lose. As I indicated, except for the CRA assessment done in the 1990s, rate hearings of the risk that cased it to under and then over earm, it's difficult to see that Newfoundland Power has a risk to its earnings from what they have been. DR. BOOTH: RELLY, Q.C.: Page 134 A. It may go—exactly, the risk is supposed to be, you possibly gain, you possibly lose. As I indicated, except for the CRA assessment that caused it to under and then over earm, it's difficult to see that Newfoundland Power has a risk to its earnings from what they have been. RELLY, Q.C.: Page 134 A. What I'm indicating is and I look at—I asked Newfoundland Power has a risk to its earnings at that time, so that I could see what the experienced any risk. A. What I'm indicating is and I look at—I asked Newfoundland Power has a risk to its earnings at that time, so that I could see what the experienced and they tended to say that there's increase in power costs, there's less competition—sorry, 24 Have the points that with side fifteent. See you possibly gain of the risk sthat than and they tended do say that there's increase in power costs, there's less competition—sorry, 24 BELLY, Q.C.: RELLY, Q.C.: Page 134 A. Oh that's correct. Look, I mean, this Board sits in on all of these facilities' expansions and all of the cost analysis and everything else. The Board will have access to a lot of detailed knowledge than I'v	1		<u>-</u>			
Second by the band around Newfoundland Power's allowed ROE." And if I can just stop you there, we know there is a 40 basis pout there, we know there is a 40 basis Power's allowed ROE." And if I can just stop you there, we know there is a 40 basis Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced, as we just talked abour? Power's carnings being reduced at least into the lower band of the ROF? Power basis in the power doesn't carn its allowed plower base and of the ROF? Power base and manage those risks properly, which would earnings being reduced at least into the lower band of the ROF? Power base and manage those risks properly, which would earnings being reduced at least into the lower band of the ROF? Power base and	1 ,		T 11			•
8 Power's allowed ROE." And irI can just stop you there, we know there is a 40 basis points band around the Newfoundland Power's rate of return, agreed? 10 One of the points that you've flagged yourself, in this answer to this RPI, is trate of return, agreed? 11 A. Approximately, yeah. 12 OR. BOOTH: 13 A. Approximately, yeah. 14 KELLY, Q.C.: 15 Q. Approximately, and essentially what you are saying is the risk that we talked about for contribution risk, deteriorating economy, could result in Newfoundland Power, the earnings being reduced at least into the lower band of the ROF? 16 Could result in Newfoundland Power, the earnings being reduced at least into the lower band of the ROF? 17 Could result in Newfoundland Power, the earnings being reduced at least into the lower band of the ROF? 18 BOOTH: 19 DR. BOOTH: 20 DR. BOOTH: 21 DR. BOOTH: 22 A. That's correct, it could actually be that 23 Newfoundland Power dosen't earn its allowed ROF and instead of— 24 Newfoundland Power dosen't earn its allowed RoF and instead of— 25 KELLY, Q.C.: 26 Page 134 27 And may go under the band? 28 KELLY, Q.C.: 29 Page 134 4 A. It may go—exactly, the risk is supposed to be, you possibly gain, you possibly lose. 4 As I indicated, except for the CRA over earn, it's difficult to see that over earn, it's difficult to see that Newfoundland Power has actually experienced any risk. 20 Q. So one of the risks that you identify in this ROE is that—or in this RFI is that Newfoundland Power has a risk to its earnings of the risk seasement done in the 1990s, rate in competition, there's increase in power costs, there's less competition—sorry, 20 What I'm indicating is and I look at—l asked Newfoundland Power to provide copies of the risk assessment done in the 1990s, rate in competition, there's increase in power costs, there's less competition—sorry, 21 Page 136 22 A. Well would say that there's a asymmetry that if a utility Rags something that's materially going to affect its parformance, 22 A. Well would say that there's a separate costs, the	1		•			
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10 Points band around the Newfoundland Power's rate of return, agreed? 11 yourself, in this answer to this RFI, is 12 DR. BOOTH: 12 that this risk can result in Newfoundland Power and of the risk that we talked about for 2 2 Approximately, and essentially what you are 3 saying is the risk that we talked about for 2 15 DR. BOOTH: 15 DR. BOOTH: 16 A. There's a possibility that if these risks are material and that they fail to forecash and manage those risks properly, which would 19 earnings being reduced at least into the 19 be a first compared to the last 25 years, 18 then they may actually under earn for the 19 then they may actually under earn for the 19 the thing they are the regulators 19 they are the regulators 19 they are the regulators 19 they assessment shad caused it to under and then 20 they assessment shad caused it to under and then 20 they assessment shad caused it to under and then 20 this ROE: shad—or in this RFI is that 20 this ROE is that—or in this RFI is that 13 this ROE is that—or in this RFI is that 14 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15 this ROE is that—or in this RFI is that 15	1		· ·		KELLY O.C.	•
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		Page 137			Page 139
1		say, look, there's something seriously going	1		flagging up the prospect at least of this
2		on here, please we need to re-examine this	2		death spiral is you have to increase the
3		particular risk and that's the regulatory	3		price on fewer people going forward, fewer
4		bargain. As I point out in my testimony	4		units?
5		that if a competitive firm loses sales, it	5	DR. BOOTH:	
6		can't suddenly turn around and charge more	6	A.	I'm saying there's two elements of risk for
7		for everybody else or go back and say, well	7	71.	a utility, one is the short-run forecasting
8		look, the widget I sold you last year, I'm	8		risk which generally utilities manage that
9		sorry, you're going to have to pay more for	9		very well in a sense that they over earn
10		it because I didn't sell enough widgets;	10		because they forecast things that don't
1			1		
11		whereas that can happen for a regulated	11		actually happen. They forecast spending
12	WELLW O.C.	utility.	12		money that they don't actually spend. And
13	KELLY, Q.C		13		then the fundamental risk is that the
14	Q.	Tell me about the death spiral, what does	14		utility faces fundamental changes in supply
15		that mean?	15		and demand that threatens its ability to
16	DR. BOOTH:		16		recover its costs and the standard procedure
17	A.	Well the death spiral is TransCanada	17		is to reallocate those costs and it can
18		Mainline. The TransCanada Mainline is a	18		result, as you said, as it did for the
19		bullet pipeline from Alberta into central	19		Mainline, higher costs, causing other people
20		Canada and it basically requires gas to flow	20		to say I don't want to renew. I don't want
21		from Alberta into central Canada.	21		to renew and ship on the Mainline, I'll find
22		Unfortunately, they are alternative supply	22		some other way of getting my gas to market,
23		bases that have developed that can serve	23		it's too expensive.
24		central Canada, principally the Marcel's	24	KELLY, Q.C.	÷
25		Field in the eastern United States. And the	25	Q.	So that's a risk we have. Now let's come
\vdash			—		
		Page 138			Page 140
		Page 138 TransCanada Mainline saw a significant drop	1		Page 140
1 2		TransCanada Mainline saw a significant drop	1 2	DR ROOTH-	over to –
2		TransCanada Mainline saw a significant drop off in its load and it came before the, as	2	DR. BOOTH:	over to –
2 3		TransCanada Mainline saw a significant drop off in its load and it came before the, as any utility does, it came before the	2 3	DR. BOOTH:	over to – That's a risk every utility has. It's a
2 3 4		TransCanada Mainline saw a significant drop off in its load and it came before the, as any utility does, it came before the National Energy Board and says we're in	2 3 4		over to – That's a risk every utility has. It's a question of whether or not it's a realistic
2 3 4 5		TransCanada Mainline saw a significant drop off in its load and it came before the, as any utility does, it came before the National Energy Board and says we're in danger of not earning allowed ROE, we've got	2 3 4 5	A.	over to – That's a risk every utility has. It's a question of whether or not it's a realistic risk.
2 3 4 5 6		TransCanada Mainline saw a significant drop off in its load and it came before the, as any utility does, it came before the National Energy Board and says we're in danger of not earning allowed ROE, we've got some assets that are under utilized, help	2 3 4 5 6	A. KELLY, Q.C.	over to – That's a risk every utility has. It's a question of whether or not it's a realistic risk.
2 3 4 5 6 7		TransCanada Mainline saw a significant drop off in its load and it came before the, as any utility does, it came before the National Energy Board and says we're in danger of not earning allowed ROE, we've got some assets that are under utilized, help us. And there was a major hearing, 2011	2 3 4 5 6 7	A.	over to – That's a risk every utility has. It's a question of whether or not it's a realistic risk. Right, but we don't have anything else, like
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q.	TransCanada Mainline saw a significant drop off in its load and it came before the, as any utility does, it came before the National Energy Board and says we're in danger of not earning allowed ROE, we've got some assets that are under utilized, help us. And there was a major hearing, 2011 where the National Energy Board gave the Mainline the tools it needed in order to compete. But the reason they call it a death spiral, it kind of goes like this, isn't it, as the price goes up, people use less, so you then have to jack up the price again to cover what you didn't get causing a further	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. KELLY, Q.C. Q. DR. BOOTH:	over to – That's a risk every utility has. It's a question of whether or not it's a realistic risk. Right, but we don't have anything else, like Muskrat Falls coming with 9 billion. Let's go over to NP – Yeah, but I'll correct you on that, Mr. Kelly, we do have, I asked Newfoundland Power what the situation was like in the '90s and they said there was a period when they had a 40 percent cost disadvantage relative to fuel oil and they lost about 3.7 percent of their customers, but they still
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C.: Q.	TransCanada Mainline saw a significant drop off in its load and it came before the, as any utility does, it came before the National Energy Board and says we're in danger of not earning allowed ROE, we've got some assets that are under utilized, help us. And there was a major hearing, 2011 where the National Energy Board gave the Mainline the tools it needed in order to compete. But the reason they call it a death spiral, it kind of goes like this, isn't it, as the price goes up, people use less, so you then have to jack up the price again to cover what you didn't get causing a further increase in price of on fewer people. That's exactly right.	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. BOOTH:	over to – That's a risk every utility has. It's a question of whether or not it's a realistic risk. Right, but we don't have anything else, like Muskrat Falls coming with 9 billion. Let's go over to NP – Yeah, but I'll correct you on that, Mr. Kelly, we do have, I asked Newfoundland Power what the situation was like in the '90s and they said there was a period when they had a 40 percent cost disadvantage relative to fuel oil and they lost about 3.7 percent of their customers, but they still earned their allowed ROE. And during the '90s there was significant testimony before this Board on the problem that they faced into fuel completion with fuel oil, so
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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	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	TransCanada Mainline saw a significant drop off in its load and it came before the, as any utility does, it came before the National Energy Board and says we're in danger of not earning allowed ROE, we've got some assets that are under utilized, help us. And there was a major hearing, 2011 where the National Energy Board gave the Mainline the tools it needed in order to compete. But the reason they call it a death spiral, it kind of goes like this, isn't it, as the price goes up, people use less, so you then have to jack up the price again to cover what you didn't get causing a further increase in price of on fewer people. That's exactly right. That's the problem. And that's exactly what the Mainline faced.	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. BOOTH:	That's a risk every utility has. It's a question of whether or not it's a realistic risk. Right, but we don't have anything else, like Muskrat Falls coming with 9 billion. Let's go over to NP — Yeah, but I'll correct you on that, Mr. Kelly, we do have, I asked Newfoundland Power what the situation was like in the '90s and they said there was a period when they had a 40 percent cost disadvantage relative to fuel oil and they lost about 3.7 percent of their customers, but they still earned their allowed ROE. And during the '90s there was significant testimony before this Board on the problem that they faced into fuel completion with fuel oil, so that's a 40 percent cost disadvantage. If

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1		when it wasn't material in the 1990s.	1	KELLY, Q.C.	:
2	KELLY, Q.C.	:	2	Q.	That's why we talked about how big that is
3	Q.	I'm going to come back to that one. Let's	3		and the uncertainty around it. Now, let's
4		go to NPCA-061 and you were asked in this	4		go to CA-NP-062 and this is another
5		RFI about Moody's and their comments. If we	5		question—no, sorry, it should be NP-CA,
6		come down to line 14, you say "Dr. Booth	6		sorry, I got the things backwards. Now if
7		makes no comment on Moody's assessment of	7		we go down to—this is another question about
8		the impact of Muskrat Falls, except to note	8		the death spiral and Moody's and at line 10
9		that the Board has a number of regulatory	9		you say, "Dr. Booth's understanding is that
10		tools to manage that exposure and if the	10		the legal requirement in Canada is the
11		risks materialize, he expects the hearing to	11		equity cost is a cost and that it cannot be
12		consider how to deal with any problems.	12		reduced to share the pain; hence, he does
13		Regulatory precedent in Canada rather than	13		not accept that any Canadian regulator would
14		the United States is that there is no reason	14		allow an unfair or unreasonable ROE. He
15		to believe that NP's shareholders bear this	15		also cannot see what costs the Board could
16		risk, rather than ratepayers." So if I	16		disallow as a prudent that would make any
17		understand your testimony correctly, this is	17		material difference since the main concern
18		all the ratepayers' risk?	18		is not NP's cost but the flow-thru of
19	DR. BOOTH:	an the ratepayers risk:	19		Hydro's commodity costs." So if I stop
20	A.	Ultimately it is the ratepayer's risk, it's	20		there, that's the point that we've already
21	A.	the ratepayer who is going to pay the higher	21		talked about, assuming an unlimited ability
22		cost of electricity and if the Board passes	22		for customers to pay.
23		those on, as it currently does, then it's	23	DR. BOOTH:	* *
24		ratepayers who are going to pay those higher	24	A.	That's correct, as I've said, as long as the
25		electricity costs and they're the ones that	25	A.	underlined commodity is competitive and
23		· · · · · · · · · · · · · · · · · · ·	23		· •
١.		Page 142			Page 144
1		are going to be faced with the higher cost	1		there's no alternative to electricity, then
					•
2	WELLW O.C.	of Muskrat Falls.	2	KELLY O.C.	the costs are going to be passed on.
3	KELLY, Q.C	of Muskrat Falls.	2 3	KELLY, Q.C.	the costs are going to be passed on.
3 4	KELLY, Q.C Q.	of Muskrat Falls. :: And that assumes, of course, doesn't it,	2 3 4	KELLY, Q.C. Q.	the costs are going to be passed on. Let's go to the next sentence, "If this
3 4 5	, ,	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost	2 3 4 5	, ,	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that
3 4 5 6	, ,	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the	2 3 4 5 6	, ,	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to
3 4 5 6 7	Q.	of Muskrat Falls. :: And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it.	2 3 4 5 6 7	, ,	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know
3 4 5 6 7 8	Q. DR. BOOTH	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it.	2 3 4 5 6 7 8	, ,	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but
3 4 5 6 7 8 9	Q.	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it. That's correct. And if that's the case,	2 3 4 5 6 7 8 9	, ,	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but Nalcor is building it, they're the
3 4 5 6 7 8 9 10	Q. DR. BOOTH	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it. That's correct. And if that's the case, there's no death spiral. The only situation	2 3 4 5 6 7 8 9 10	, ,	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but Nalcor is building it, they're the unregulated entity, there's going to be a
3 4 5 6 7 8 9 10 11	Q. DR. BOOTH	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it. That's correct. And if that's the case, there's no death spiral. The only situation where that can materialize if electricity	2 3 4 5 6 7 8 9 10 11	, ,	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but Nalcor is building it, they're the unregulated entity, there's going to be a power purchase agreement with Newfoundland
3 4 5 6 7 8 9 10 11 12	Q. DR. BOOTH	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it. That's correct. And if that's the case, there's no death spiral. The only situation where that can materialize if electricity costs become so expensive that Junior can't	2 3 4 5 6 7 8 9 10 11 12	, ,	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but Nalcor is building it, they're the unregulated entity, there's going to be a power purchase agreement with Newfoundland and Labrador Hydro. What action has this
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3 4 5 6 7 8 9 10 11 12 13 14 15	Q. DR. BOOTH: A.	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it. That's correct. And if that's the case, there's no death spiral. The only situation where that can materialize if electricity costs become so expensive that Junior can't play video games in the den and you have to turn the thermostat down and turn the lights off.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. DR. BOOTH:	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but Nalcor is building it, they're the unregulated entity, there's going to be a power purchase agreement with Newfoundland and Labrador Hydro. What action has this Board set up to be able to take in relation to that? Have you studied that issue?
3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. DR. BOOTH A. KELLY, Q.C	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it. That's correct. And if that's the case, there's no death spiral. The only situation where that can materialize if electricity costs become so expensive that Junior can't play video games in the den and you have to turn the thermostat down and turn the lights off.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q.	the costs are going to be passed on. Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but Nalcor is building it, they're the unregulated entity, there's going to be a power purchase agreement with Newfoundland and Labrador Hydro. What action has this Board set up to be able to take in relation to that? Have you studied that issue? No, all I'm saying here is let's just follow
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH A. KELLY, Q.C	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it. That's correct. And if that's the case, there's no death spiral. The only situation where that can materialize if electricity costs become so expensive that Junior can't play video games in the den and you have to turn the thermostat down and turn the lights off. And that's the presumption that you're making in the answer that you've given that this is a problem, not a problem for the company because you're assuming that customers have essentially an unlimited ability to pay.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH:	Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but Nalcor is building it, they're the unregulated entity, there's going to be a power purchase agreement with Newfoundland and Labrador Hydro. What action has this Board set up to be able to take in relation to that? Have you studied that issue? No, all I'm saying here is let's just follow along and read the quote that I referred to from the Ontario Energy Board, "regarding the risks of future events, the Board agrees with CCC that the relevant future risks are not going to likely affect Enbridge in the near term. Any risk that may materialize over a longer term can be taken into account
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. DR. BOOTH A. KELLY, Q.C Q.	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it. That's correct. And if that's the case, there's no death spiral. The only situation where that can materialize if electricity costs become so expensive that Junior can't play video games in the den and you have to turn the thermostat down and turn the lights off. And that's the presumption that you're making in the answer that you've given that this is a problem, not a problem for the company because you're assuming that customers have essentially an unlimited ability to pay. That's what we call price insensitive demand	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. DR. BOOTH:	Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but Nalcor is building it, they're the unregulated entity, there's going to be a power purchase agreement with Newfoundland and Labrador Hydro. What action has this Board set up to be able to take in relation to that? Have you studied that issue? No, all I'm saying here is let's just follow along and read the quote that I referred to from the Ontario Energy Board, "regarding the risks of future events, the Board agrees with CCC that the relevant future risks are not going to likely affect Enbridge in the near term. Any risk that may materialize over a longer term can be taken into account in subsequent proceedings. In considering
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH A. KELLY, Q.C Q.	of Muskrat Falls. And that assumes, of course, doesn't it, that you can pass on whatever the cost consequence is and the ratepayer has the ability to pay it. That's correct. And if that's the case, there's no death spiral. The only situation where that can materialize if electricity costs become so expensive that Junior can't play video games in the den and you have to turn the thermostat down and turn the lights off. And that's the presumption that you're making in the answer that you've given that this is a problem, not a problem for the company because you're assuming that customers have essentially an unlimited ability to pay.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH:	Let's go to the next sentence, "If this flow-thru becomes material, he expects that the provincial government and the Board to take appropriate action." Now, I don't know how familiar you are with Muskrat Falls, but Nalcor is building it, they're the unregulated entity, there's going to be a power purchase agreement with Newfoundland and Labrador Hydro. What action has this Board set up to be able to take in relation to that? Have you studied that issue? No, all I'm saying here is let's just follow along and read the quote that I referred to from the Ontario Energy Board, "regarding the risks of future events, the Board agrees with CCC that the relevant future risks are not going to likely affect Enbridge in the near term. Any risk that may materialize over a longer term can be taken into account

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		Page 145			Page 147
1		take into account the fact that generally	1		that's a risk that NP is going to have to
2		the more distant a potential event, the more	2		suffer, that's a significant change from
3		speculative of any conclusion or the	3		what I've seen elsewhere in Canada.
4		likelihood that a risk will materialize."	4	KELLY, Q.C.	:
5		All I'm saying here is that in the test	5	Q.	But you're relying on somehow the Provincial
6		year, this is not a factor and in fact,	6		Government and the Board to do something and
7		neither 2016 or 2017, the risks that you	7		can I suggest to you that that introduces a
8		mention, a factor for Newfoundland Power,	8		question of legislative and regulatory
9		probably 2018 is not a factor. We're	9		uncertainty as to how this is going to work,
10		looking at the future and all I'm saying is	10		regulatory and legislative risk?
11		that I would expect that if there is a	11	DR. BOOTH:	
12		significant supply shock that affects the	12	A.	No, I wouldn't say that at all. I would say
13		price of electricity and that affects people	13		it introduces the possibility that, I mean,
14		dropping off the system for Newfoundland	14		not every action is a risk, Mr. Kelly.
15		Power deciding to convert to oil, I would	15		Utilities might like to think every action
16		expect the Province and this Board, the	16		is a risk, but this is an action on the
17		Board to use its degree of regulatory	17		part—expect in an action on the part of the
18		protection and I would expect the Province	18		Province if it becomes serious to take steps
19		to say it doesn't make sense that we've got	19		to protect the utility. I can't conceive
20		all this electricity coming out of Muskrat	20		for one minute that the Provincial
21		Falls and everyone is converting to heating	21		Government is going to say, well, we'll
22		oil which is not environmentally	22		allow all these people to switch to heating
23		satisfactory. So there's a variety of tools	23		oil and we'll see Newfoundland Power have
24		the Province can go to, as well as this	24		all these problems earning its allowed ROE,
25		Doord in and an to think the assale horse to hear	25		we can see the death spiral and everyone is
23		Board in order to think through how to best	23		we can see the death spiral and everyone is
23		Page 146	23		Page 148
1		<u> </u>	1		• •
	KELLY, Q.C.	Page 146 handle that risk.			Page 148
1	KELLY, Q.C. Q.	Page 146 handle that risk.	1	KELLY, Q.C.	Page 148 just going to hold their hands up and say, well we're not going to do it.
1 2		Page 146 handle that risk.	1 2	KELLY, Q.C. Q.	Page 148 just going to hold their hands up and say, well we're not going to do it.
1 2 3		Page 146 handle that risk. : But you haven't analyzed that and I take it	1 2 3		Page 148 just going to hold their hands up and say, well we're not going to do it.
1 2 3 4		Page 146 handle that risk. : But you haven't analyzed that and I take it from the answer you gave me a few minutes	1 2 3 4		Page 148 just going to hold their hands up and say, well we're not going to do it. : So you're optimistic that the government is
1 2 3 4 5		Page 146 handle that risk. : But you haven't analyzed that and I take it from the answer you gave me a few minutes ago, you don't have concrete proposals as to	1 2 3 4 5		Page 148 just going to hold their hands up and say, well we're not going to do it. : So you're optimistic that the government is going to take steps to protect the utility
1 2 3 4 5 6	Q.	Page 146 handle that risk. : But you haven't analyzed that and I take it from the answer you gave me a few minutes ago, you don't have concrete proposals as to	1 2 3 4 5	Q.	Page 148 just going to hold their hands up and say, well we're not going to do it. : So you're optimistic that the government is going to take steps to protect the utility
1 2 3 4 5 6 7	Q. DR. BOOTH:	Page 146 handle that risk. But you haven't analyzed that and I take it from the answer you gave me a few minutes ago, you don't have concrete proposals as to what this Board would do?	1 2 3 4 5 6 7	Q. DR. BOOTH:	Page 148 just going to hold their hands up and say, well we're not going to do it. : So you're optimistic that the government is going to take steps to protect the utility in this province?
1 2 3 4 5 6 7 8	Q. DR. BOOTH:	Page 146 handle that risk. : But you haven't analyzed that and I take it from the answer you gave me a few minutes ago, you don't have concrete proposals as to what this Board would do? No, but I know what every other board in	1 2 3 4 5 6 7 8	Q. DR. BOOTH:	Page 148 just going to hold their hands up and say, well we're not going to do it. : So you're optimistic that the government is going to take steps to protect the utility in this province? I'm optimistic—no, I'm optimistic, in the
1 2 3 4 5 6 7 8 9	Q. DR. BOOTH:	Page 146 handle that risk. But you haven't analyzed that and I take it from the answer you gave me a few minutes ago, you don't have concrete proposals as to what this Board would do? No, but I know what every other board in Canada has done, which is when there's	1 2 3 4 5 6 7 8 9	Q. DR. BOOTH:	Page 148 just going to hold their hands up and say, well we're not going to do it. : So you're optimistic that the government is going to take steps to protect the utility in this province? I'm optimistic—no, I'm optimistic, in the province, the government is elected by
1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH:	Page 146 handle that risk. But you haven't analyzed that and I take it from the answer you gave me a few minutes ago, you don't have concrete proposals as to what this Board would do? No, but I know what every other board in Canada has done, which is when there's anything that comes up to jeopardize a	1 2 3 4 5 6 7 8 9	Q. DR. BOOTH:	Page 148 just going to hold their hands up and say, well we're not going to do it. : So you're optimistic that the government is going to take steps to protect the utility in this province? I'm optimistic—no, I'm optimistic, in the province, the government is elected by people who vote and when people who vote see their power costs going up —
1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH:	Page 146 handle that risk. But you haven't analyzed that and I take it from the answer you gave me a few minutes ago, you don't have concrete proposals as to what this Board would do? No, but I know what every other board in Canada has done, which is when there's anything that comes up to jeopardize a utility, they have a hearing, that's the	1 2 3 4 5 6 7 8 9 10	Q. DR. BOOTH: A.	Page 148 just going to hold their hands up and say, well we're not going to do it. : So you're optimistic that the government is going to take steps to protect the utility in this province? I'm optimistic—no, I'm optimistic, in the province, the government is elected by people who vote and when people who vote see their power costs going up —
1 2 3 4 5 6 7 8 9 10 11 12	Q. DR. BOOTH:	Page 146 handle that risk. But you haven't analyzed that and I take it from the answer you gave me a few minutes ago, you don't have concrete proposals as to what this Board would do? No, but I know what every other board in Canada has done, which is when there's anything that comes up to jeopardize a utility, they have a hearing, that's the Canadian regulatory compact and if the	1 2 3 4 5 6 7 8 9 10 11 12	Q. DR. BOOTH: A. KELLY, Q.C.	Page 148 just going to hold their hands up and say, well we're not going to do it. So you're optimistic that the government is going to take steps to protect the utility in this province? I'm optimistic—no, I'm optimistic, in the province, the government is elected by people who vote and when people who vote see their power costs going up —
1 2 3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH:	Page 146 handle that risk. But you haven't analyzed that and I take it from the answer you gave me a few minutes ago, you don't have concrete proposals as to what this Board would do? No, but I know what every other board in Canada has done, which is when there's anything that comes up to jeopardize a utility, they have a hearing, that's the Canadian regulatory compact and if the incidents you are talking about is severe	1 2 3 4 5 6 7 8 9 10 11 12 13	Q. DR. BOOTH: A. KELLY, Q.C.	Page 148 just going to hold their hands up and say, well we're not going to do it. So you're optimistic that the government is going to take steps to protect the utility in this province? I'm optimistic—no, I'm optimistic, in the province, the government is elected by people who vote and when people who vote see their power costs going up — They might take steps to protect the
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Discoveries Unlimited Inc. (700)427-5028 Page 140 Page 150	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A. KELLY, Q.C	forward, will have to consider what costs to cut as it tries to balance financial integrity versus system maintenance reliability, agreed? No, no, not at all. I would say that nearly every other utility in the world has been a performance base regulation, so if there is a huge shock to the system, all I'm saying is this Board has a number of tools that it can look at in order to manage those risks. One of them may be to put some sort of PBR and say to Newfoundland Power, we're going to impose a one percent cost or efficiency gain, which is usually the "X" factor in PBR and we'll give you the potential to actually generate savings and become efficient and it's amazing what efficiencies utilities can generate. That's a really interesting comment because	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. DR. BOOTH: A.	So one of the risks that you are, I'm going to call it a risk, one of the risks that you're putting up is that there may be a change in the whole regulatory legislative structure? Yeah, could be that, look, all I'm saying is that in three years' time if this scenario comes about, there's a number of measures that the Board and the province can do to make sure that this is not a big shock to the system and I think a performance based regulation is not exactly a structural change, as far as I'm aware just about every utility in Canada is under some form of PBR or settlement. Now, you talked about the cod moratorium and I did promise you we would come back to this and you've heard the testimony before that

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		Page 153			Page 155
1		balance that financial integrity with system	1		have on the screen your graph from yesterday
2		reliability, the company had to cut system	2		with the allowed and actual ROEs, and you
3		maintenance and reliability so that by the	3		will see during the 1990s, that the ROE, the
4		time we got to the end of the 1990s, 1999,	4		company under earned its allowed ROE,
5		the system had suffered significantly in	5		correct?
6		terms of reliability, are you aware of that?	6	DR. BOOTH:	
7	DR. BOOTH:	•	7	A.	That is correct, my understanding, I asked
8	A.	Well I wasn't aware of that, but I'm not	8		the company to explain that and they said it
9		surprised, I mean, you're probably aware the	9		was CRA assessment.
10		brownouts we had in eastern Canada were	10	KELLY, Q.C.	
11		caused because a U.S. utility cut back on	11	Q.	No, I think you're mixing up a little bit.
12		its maintenance when it was on the PBR.	12	DR. BOOTH:	100, I tillik you ie liiking up a little oit.
13	KELLY, Q.C.		13	A.	Oh there was a severe sleet storm.
14	Q.	And more recently, I don't want to go too	14	KELLY, Q.C.	
15	Q.	far into this, but more recently in this	15	Q.	No, that comes a little bit later. Let me
16		jurisdiction we've had the issue with Hydro,	16	Q.	help you along here. In the 1990s, what
17		the generating utility and its problems in	17		happened to long Canada rates in bond rates?
18		maintaining the system, so there's a trade	18	DR. BOOTH:	nappened to long Canada rates in bond rates?
19		off between maintaining financial integrity	19		They came down.
20		and reliability if you have declining sales,	20	Q. KELLY, Q.C.	
		lack of contribution, growth, et cetera.	21		
21			1	Q.	They came down, exactly. And what does that
22	DD DOOTH.	It's simply the corollary, agreed?	22		do? It reduces your cost of capital,
23	DR. BOOTH:		23	DD DOOTH	doesn't it?
24	A.	Well I wouldn't say it's simply the	24	DR. BOOTH:	W 11.1 C.11 1 (1 1.4
25		corollary, I would say that whenever you	25	A.	Well hopefully as long as the regulator
\vdash			\vdash		- 1
		Page 154			Page 156
1		sort of look to cut costs, first of all	1		actually passes through their financial
2		sort of look to cut costs, first of all there shouldn't be any costs to cut in the	2		actually passes through their financial costs, then the ROE should come down.
2 3		sort of look to cut costs, first of all there shouldn't be any costs to cut in the first place if in fact it's operating	2 3	KELLY, Q.C.	actually passes through their financial costs, then the ROE should come down.
2		sort of look to cut costs, first of all there shouldn't be any costs to cut in the first place if in fact it's operating efficiently, but there's always a danger	2	KELLY, Q.C. Q.	actually passes through their financial costs, then the ROE should come down. : And so if you look at 1991 through 1996, the
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2 3 4 5 6		sort of look to cut costs, first of all there shouldn't be any costs to cut in the first place if in fact it's operating efficiently, but there's always a danger that you may cut a little bit too much. I mean, that's what competitive firms do and	2 3 4	, ,	actually passes through their financial costs, then the ROE should come down. And so if you look at 1991 through 1996, the Board held the allowed return up as we went through the very difficult proposition of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	KELLY, Q.C.	sort of look to cut costs, first of all there shouldn't be any costs to cut in the first place if in fact it's operating efficiently, but there's always a danger that you may cut a little bit too much. I mean, that's what competitive firms do and you got to remember, Mr. Kelly, that we're basically looking at, regulation is designed to emulate the impact of competition for the utility to operate as efficiently as possible, minimal to low run average cost so ratepayers don't pay more than they should do if in fact it was a competitive environment. And unfortunately a competitive environment, sometimes here are things that wouldn't happen with a regulated utility with a gold plated rate base, that's inevitable.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C. Q.	actually passes through their financial costs, then the ROE should come down. And so if you look at 1991 through 1996, the Board held the allowed return up as we went through the very difficult proposition of the cod moratorium, it didn't reduce. Yes. That's the clear observation, and yet even in that circumstance with an allowed ROE held up, the company was forced into the position of trying to balance financial integrity versus system reliability and system reliability got deteriorated. So we've been through this experience, nobody wants to go back there. But what you're actually telling me is the allowed ROE is probably excessive in the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	KELLY, Q.C.	sort of look to cut costs, first of all there shouldn't be any costs to cut in the first place if in fact it's operating efficiently, but there's always a danger that you may cut a little bit too much. I mean, that's what competitive firms do and you got to remember, Mr. Kelly, that we're basically looking at, regulation is designed to emulate the impact of competition for the utility to operate as efficiently as possible, minimal to low run average cost so ratepayers don't pay more than they should do if in fact it was a competitive environment. And unfortunately a competitive environment, sometimes here are things that wouldn't happen with a regulated utility with a gold plated rate base, that's inevitable. Samantha, can we put up Dr. Booth's slide No. 3, please? If you can take us over,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q.	actually passes through their financial costs, then the ROE should come down. And so if you look at 1991 through 1996, the Board held the allowed return up as we went through the very difficult proposition of the cod moratorium, it didn't reduce. Yes. That's the clear observation, and yet even in that circumstance with an allowed ROE held up, the company was forced into the position of trying to balance financial integrity versus system reliability and system reliability got deteriorated. So we've been through this experience, nobody wants to go back there. But what you're actually telling me is the allowed ROE is probably excessive in the early '90s, so in fact they didn't under
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	KELLY, Q.C.	sort of look to cut costs, first of all there shouldn't be any costs to cut in the first place if in fact it's operating efficiently, but there's always a danger that you may cut a little bit too much. I mean, that's what competitive firms do and you got to remember, Mr. Kelly, that we're basically looking at, regulation is designed to emulate the impact of competition for the utility to operate as efficiently as possible, minimal to low run average cost so ratepayers don't pay more than they should do if in fact it was a competitive environment. And unfortunately a competitive environment, sometimes here are things that wouldn't happen with a regulated utility with a gold plated rate base, that's inevitable. Samantha, can we put up Dr. Booth's slide No. 3, please? If you can take us over, Samantha, you might be able to enlarge the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH: A. KELLY, Q.C. Q.	actually passes through their financial costs, then the ROE should come down. And so if you look at 1991 through 1996, the Board held the allowed return up as we went through the very difficult proposition of the cod moratorium, it didn't reduce. Yes. That's the clear observation, and yet even in that circumstance with an allowed ROE held up, the company was forced into the position of trying to balance financial integrity versus system reliability and system reliability got deteriorated. So we've been through this experience, nobody wants to go back there. But what you're actually telling me is the allowed ROE is probably excessive in the early '90s, so in fact they didn't under earn, actually they probably over earned if

		Page 157			Page 159
1	KELLY, Q.C.	:	1	DR. BOOTH:	
2	Q.	And that helped balance the financial	2	A.	That's correct.
3		integrity, so maintaining an ROE that	3	KELLY, Q.C.	:
4		enables you to manage through the problem is	4	Q.	Then at line 17, you say this, "I agree that
5		what the Board did back then. You're in	5		the Board might in the future take actions
6		here saying cut the ROE—or from your	6		that hurt the bondholder." Now, which
7		testimony this morning, at least maintain	7		bondholder are you talking about?
8		it.	8	DR. BOOTH:	
9	DR. BOOTH:		9	A.	The people that buy Newfoundland Power's
10	A.	My recommendation is 7.5 percent, the same	10		bonds.
11		as three years ago.	11	KELLY, Q.C.	:
12	KELLY, Q.C.	:	12	Q.	Would they be our existing bondholders, the
13	Q.	Maintain it like last time.	13		550 million outstanding?
14	DR. BOOTH:		14	DR. BOOTH:	
15	A.	And my recommendation as well, Mr. Kelly, is	15	A.	Generally it's the existing bondholders
16		that if there are any serious risks outside	16		because if the Board takes action, the new
17		the test year, they should be dealt with at	17		bondholders will price that into the yield
18		that appropriate time. My understanding is	18		that they expect.
19		there is nothing significant within the	19	KELLY, Q.C.	:
20		next, the test years, 2016 to 2017 and all	20	Q.	So I'm not quite sure I understood your
21		I'm saying is that the Board has the	21		answer. Is it the existing bondholders,
22		regulatory tools to manage these risks	22		those who already hold the bonds who would
23		should they materialize.	23		be hurt or new bondholders?
24	KELLY, Q.C.		24	DR. BOOTH:	
25	Q.	Haven't quite been able to tell us, though,	25	A.	The old bondholders.
_			_		
		Page 158			Page 160
1		how it's going to do that.	1	KELLY, Q.C.	_
2	DR. BOOTH	how it's going to do that.	1 2	KELLY, Q.C. Q.	But how would they be hurt? So we're going
2 3	DR. BOOTH	how it's going to do that. Because that's the job of the Board. I'm	3		But how would they be hurt? So we're going to hurt the old bondholders, the existing
2		how it's going to do that. Because that's the job of the Board. I'm not going to go to them and say do this, do	1	Q.	But how would they be hurt? So we're going
2 3		how it's going to do that. Because that's the job of the Board. I'm not going to go to them and say do this, do that, do that. All I'm saying is that what	3	Q. DR. BOOTH:	But how would they be hurt? So we're going to hurt the old bondholders, the existing debt owners?
2 3 4 5 6		how it's going to do that. Because that's the job of the Board. I'm not going to go to them and say do this, do that, do that. All I'm saying is that what will happen is there will be a hearing if	3 4 5 6	Q.	But how would they be hurt? So we're going to hurt the old bondholders, the existing debt owners? I didn't say we were going to hurt the old
2 3 4 5 6 7		how it's going to do that. Because that's the job of the Board. I'm not going to go to them and say do this, do that, do that. All I'm saying is that what will happen is there will be a hearing if anything significant happens and out of that	3 4 5 6 7	Q. DR. BOOTH:	But how would they be hurt? So we're going to hurt the old bondholders, the existing debt owners? I didn't say we were going to hurt the old bondholders, all I said is that when the
2 3 4 5 6 7 8		how it's going to do that. Because that's the job of the Board. I'm not going to go to them and say do this, do that, do that. All I'm saying is that what will happen is there will be a hearing if anything significant happens and out of that would come a judgment on the part of the	3 4 5 6 7 8	Q. DR. BOOTH:	But how would they be hurt? So we're going to hurt the old bondholders, the existing debt owners? I didn't say we were going to hurt the old bondholders, all I said is that when the bondholders—all I said is the Board may take
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		Page 161			Page 163
1	KELLY, Q.C.	:	1		fair and reasonable rates. That may result
2	Q.	Well let me put the question slightly	2		in some equity holders saying, well, I
3		differently, that if steps are taken which	3		didn't expect that, I'm going to lose money
4		affect—that it may affect the company's	4		and it may be that some of the bondholders
5		ability to be able to borrow at the same	5		can say, well I didn't expect that, now I'm
6		rates that it otherwise would have been.	6		not quite so happy with those bonds. That's
7	DR. BOOTH:		7		part and parcel of the investment risk.
8	A.	I think that's correct in the sense that if	8	KELLY, Q.C.	
9		this Board decides to replace 5 percent	9	Q.	So if I put all that together, I'm looking
10		common equity with 5 percent debt, then the	10	ζ.	at a picture in which even, never mind the
11		bondholders are going to say with a little	11		shareholders, but we're down to bondholders
12		bit more financial leverage and they're	12		could be negatively affected as you've said
13		probably going to want a few basis points on	13		in your –
14		the Euro and the debt.	14	DR. BOOTH:	· ·
15	KELLY, Q.C.		15	A.	Sure, you're acting like Mr. Sherwin saying
1	Q.	So the cost of debt will rise?	16	A.	
16	DR. BOOTH:		ı		it's against the constitution if you
17			17	WELLY O.C.	expropriate property.
18	A.	No, I didn't say it will rise, I said it	18	KELLY, Q.C.	
19	WELLW O.C.	could rise.	19	Q.	No, I was surprised to read your words when
20	KELLY, Q.C.		20		you said "I agree that the Board might in
21	Q.	It could rise from what it otherwise would	21		the future take actions that hurt the
22		have?	22		bondholder", which is, like that, to me,
23	DR. BOOTH:		23		rings pretty serious.
24	A.	Probably that's the case, correct.	24	DR. BOOTH:	
25	KELLY, Q.C.	:	25	A.	No, it doesn't, it's not serious at all.
		Page 162			Page 164
1	Q.	Right, so one of the things you are	1		A 11 T2i i 41 D 1 ii 4 - 11.
1 1			1		All I'm saying is the Board is going to look
2		postulating is to deal with the risks we've	2		at everything and do its best to protect the
1			I -		
2		postulating is to deal with the risks we've talked about, the Board might have to take actions which would be serious enough to	2		at everything and do its best to protect the
2 3		postulating is to deal with the risks we've talked about, the Board might have to take	2 3		at everything and do its best to protect the utility to give it an opportunity to earn
2 3 4		postulating is to deal with the risks we've talked about, the Board might have to take actions which would be serious enough to	2 3 4		at everything and do its best to protect the utility to give it an opportunity to earn its allowed ROE. That may involve putting
2 3 4 5		postulating is to deal with the risks we've talked about, the Board might have to take actions which would be serious enough to hurt existing bondholders and negatively	2 3 4 5		at everything and do its best to protect the utility to give it an opportunity to earn its allowed ROE. That may involve putting the Board on—sorry, the company on
2 3 4 5 6	DR. BOOTH:	postulating is to deal with the risks we've talked about, the Board might have to take actions which would be serious enough to hurt existing bondholders and negatively	2 3 4 5 6		at everything and do its best to protect the utility to give it an opportunity to earn its allowed ROE. That may involve putting the Board on—sorry, the company on performance base regulation, it may involve
2 3 4 5 6 7	DR. BOOTH:	postulating is to deal with the risks we've talked about, the Board might have to take actions which would be serious enough to hurt existing bondholders and negatively affect future bondholders?	2 3 4 5 6 7		at everything and do its best to protect the utility to give it an opportunity to earn its allowed ROE. That may involve putting the Board on—sorry, the company on performance base regulation, it may involve going through more tax efficient capital
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		Page 165			Page 167
1		062 because you referred a number of times	1		Alberta Utilities Commission where you apply
2		to this OEB comment. Now is the OEB there	2		generic ROES to a wide range of companies,
3		talking about the rate of return?	3		it's then efficient to look at the common
4	DR. BOOTH:	•	4		equity ratio within the GRA of an individual
5	A.	No, it's talking about capital structure.	5		company and change that to equalize the risk
6	KELLY, Q.C.	• •	6		such that they can continue to get exactly
7	Q.	Okay, well if we look at capital structure,	7		the same ROE.
8	Q.	would you agree with me that Newfoundland	8	KELLY, Q.C.	
9		Power has had a stable capital structure for	9	Q.	That's when you got multiple investor owned
10		decades?	10	Q.	utilities within the same regulatory
11	DR. BOOTH:		11		umbrella?
1			12	DR. BOOTH:	umorena?
12	A.	That's correct, 40 to 45 percent in the	l		TT (2
13		early '90s and 45 percent for at least the	13	A.	That's correct. Where you don't have
14		last 15 years.	14		multiple utilities, as in the case, for
15	KELLY, Q.C.		15		example of the BCUC, the BCUC actually
16	Q.	And if I take you to the company's finance	16		changes the common equity ratio and has
17		evidence, let's go to page 421.	17		changed the common equity ratio and the ROE
18	MS. PIERCE	Y:	18		at the same time and set differential
19	Q.	What was the page again?	19		premiums on the ROE and the common equity
20	KELLY, Q.C.	.i	20		ratio.
21	Q.	421. And if you go to the middle of the	21	KELLY, Q.C.	:
22		page, Samantha, and then kind of scroll	22	Q.	But if you're going to change the ROE,
23		down. And in fact, you'd be familiar with	23		because this is their language a few minutes
24		the Stated Case decision from our Court of	24		ago, for a change in the risk, if the risk
25		Appeal which our Court of Appeal has dealt	25		goes up, it's the equity component that you
		Page 166			Page 168
1		with the importance of the stability in	1		would increase. The response to increasing
2		capital structure management.	2		risk is an increase in equity component.
3	DR. BOOTH:	· ·	3	DR. BOOTH:	Tisk is an increase in equity component.
4	A.	Oh, I generally agree with that completely.	4	A.	Well it can be, it can be an increase in the
5	KELLY, Q.C.		5	11.	ROE.
6	Q.	Okay, you would.	6	KELLY, Q.C.	
7	DR. BOOTH:	- · ·	7	Q.	Or it could be an increase in the ROE, but
8	A.	Yeah, I'd generally recommend that you don't	8	Q.	in terms of capital structure, if you're
9	A.	change capital structures unless there's a	9		going to adjust the capital structure
1		significant change in business risk, which	l		because of a change in risk, increasing risk
10		-	10		•
11		is the policy of the National Energy Board,	11		increases equity, decreasing risk decreases
12		the Ontario Energy Board and most boards in	12	DD DOOTH	equity, agreed?
13		Canada, except the Albert Utility	13	DR. BOOTH:	Accord and Audit dit (d.d.)
14	WELLY O	Commission.	14	A.	Agreed, yeah. And in this case with this
15	KELLY, Q.C.		15		company regulated by the Board, it's not
16	Q.	Right, and so what you just said is you	16		into the problem of the generic ROE, it can
17		don't change capital structures unless	17		regulate, it can change the ROE and the
18		there's a material change in business risk.	18		capital structure.
19		If the risk increased, ordinarily you would	19	KELLY, Q.C.	
20		increase the equity in the capital	20	Q.	Now if we go to NP-CA-026, the question asks
21		structure, correct?	21		you – it gives this quote, "In our
22	DR. BOOTH:		22		judgment", referring to Dr. Booth, which
23	A.	Generally you would, it depends what you're	23		would be you and Dr. Berkowitz, "in our
123					
24		doing. If you're like the National Energy	24		judgment, capital structures should be long

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		Page 169			Page 171
1		the business risk of the firm. In	1		make recommendations.
2		particular, it is not standard practice to	2	KELLY, Q.C.:	
3		change equity ratios on an ongoing basis",	3		Let's go to CA-NP-050, and go to page 4 and
4		and you were asked, "Does Dr. Booth still	4	Q.	see if we can come to some agreement on some
1		•	l		<u> </u>
5		agree with the above statement regarding the	5		practical points here as well. If we could
6		long lived nature of capital structures",	6		go to page 4, and this deals with – come
7		and you answered, referring to certain other	7		down, Samantha, a little bit lower on the
8		ones, "Yes, while noting the word	8		page, if you could. We begin at line 26 and
9		"primarily". So you generally agree with	9		27, "Newfoundland Power has consulted with
10		the statement that you've got on the screen?	10		its investment bankers concerning the
11	DR. BOOTH:		11		current Canadian preferred share market".
12	A.	Absolutely. I disagree with the policy of	12		Line 30, "The company has been advised that
13		the Alberta Utilities Commission where	13		preferred shares with a fixed coupon rate
14		they're changing their capital structure	14		and perpetual term are not currently
15		couple of years. I personally don't think	15		marketable in Canadian capital markets.
16		that makes a lot of sense.	16		Preferred shares, which have a coupon rate
17	KELLY, Q.C.		17		which is reset at the predetermined time,
1			ı		÷
18	Q.	Now in terms of capital structure, if you	18		typically five years, are currently
19		know you have a risk problem that appears to	19		marketable in Canadian capital markets". Do
20		have material and significant components to	20		you agree with that statement?
21		it, and you know that that is coming, is it	21	DR. BOOTH:	
22		not good financial management to maintain	22	A.	Yes, at the moment most of the preferred
23		your existing capital structure, or maybe	23		shares are these rate reset preferred
24		even strength it to be ready for it?	24		shares.
25			25		
		Page 170			Page 172
1		2			
	(12:15 p.m.)		1	KELLY, O.C.	•
2	(12:15 p.m.) DR BOOTH:		1 2	KELLY, Q.C.	.i.
2 3	DR. BOOTH:		1 2 3	KELLY, Q.C. Q.	: If we go on, "Preferred shares which have a
3		Not particularly. Right now, as I said, if	3		If we go on, "Preferred shares which have a coupon reset provision are exposed to
3 4	DR. BOOTH:	Not particularly. Right now, as I said, if we were going back to Muskrat Falls, as I've	3 4		If we go on, "Preferred shares which have a coupon reset provision are exposed to changes in market interest rates. This makes
3 4 5	DR. BOOTH:	Not particularly. Right now, as I said, if we were going back to Muskrat Falls, as I've said, that is not within the test year, it's	3 4 5		If we go on, "Preferred shares which have a coupon reset provision are exposed to changes in market interest rates. This makes them similar to debt financing and
3 4 5 6	DR. BOOTH:	Not particularly. Right now, as I said, if we were going back to Muskrat Falls, as I've said, that is not within the test year, it's not a factor for 2016, 2017, or 2018. I'm	3 4 5 6		If we go on, "Preferred shares which have a coupon reset provision are exposed to changes in market interest rates. This makes them similar to debt financing and distinguishes them from preferred shares
3 4 5 6 7	DR. BOOTH:	Not particularly. Right now, as I said, if we were going back to Muskrat Falls, as I've said, that is not within the test year, it's not a factor for 2016, 2017, or 2018. I'm not convinced that the dire prospects will	3 4 5 6 7		If we go on, "Preferred shares which have a coupon reset provision are exposed to changes in market interest rates. This makes them similar to debt financing and distinguishes them from preferred shares with perpetual terms and fixed coupon rates.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	DR. BOOTH: A. KELLY, Q.C. Q.	Not particularly. Right now, as I said, if we were going back to Muskrat Falls, as I've said, that is not within the test year, it's not a factor for 2016, 2017, or 2018. I'm not convinced that the dire prospects will actually happen. If it does happen, I would fully expect in the 2020 GRA, that that will come up as an issue and probably if it is serious, then there will be a lot of discussion and a lot of analysis at that point in time. If that does materialize, I would expect the company to put forward its case that a whole bunch of things need to change. And as we talked about before, the Board will be in the best position to determine the extent of that risk?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	If we go on, "Preferred shares which have a coupon reset provision are exposed to changes in market interest rates. This makes them similar to debt financing and distinguishes them from preferred shares with perpetual terms and fixed coupon rates. Preferred shares", go to the next page, Samantha, "which have a coupon reset provision are not treated simply as equity for accounting and credit rating purposes". Do you agree with that statement? I agree with part of that statement, not all of that statement. Can you tell me what you agree with? Preferred shares rank behind debt, so they provide equity support for the bond holders
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	Not particularly. Right now, as I said, if we were going back to Muskrat Falls, as I've said, that is not within the test year, it's not a factor for 2016, 2017, or 2018. I'm not convinced that the dire prospects will actually happen. If it does happen, I would fully expect in the 2020 GRA, that that will come up as an issue and probably if it is serious, then there will be a lot of discussion and a lot of analysis at that point in time. If that does materialize, I would expect the company to put forward its case that a whole bunch of things need to change. : And as we talked about before, the Board will be in the best position to determine the extent of that risk?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	If we go on, "Preferred shares which have a coupon reset provision are exposed to changes in market interest rates. This makes them similar to debt financing and distinguishes them from preferred shares with perpetual terms and fixed coupon rates. Preferred shares", go to the next page, Samantha, "which have a coupon reset provision are not treated simply as equity for accounting and credit rating purposes". Do you agree with that statement? I agree with part of that statement, not all of that statement. Can you tell me what you agree with? Preferred shares rank behind debt, so they provide equity support for the bond holders regardless of whether the preferred share
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	Not particularly. Right now, as I said, if we were going back to Muskrat Falls, as I've said, that is not within the test year, it's not a factor for 2016, 2017, or 2018. I'm not convinced that the dire prospects will actually happen. If it does happen, I would fully expect in the 2020 GRA, that that will come up as an issue and probably if it is serious, then there will be a lot of discussion and a lot of analysis at that point in time. If that does materialize, I would expect the company to put forward its case that a whole bunch of things need to change. And as we talked about before, the Board will be in the best position to determine the extent of that risk? That's correct. They'll receive expert	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	If we go on, "Preferred shares which have a coupon reset provision are exposed to changes in market interest rates. This makes them similar to debt financing and distinguishes them from preferred shares with perpetual terms and fixed coupon rates. Preferred shares", go to the next page, Samantha, "which have a coupon reset provision are not treated simply as equity for accounting and credit rating purposes". Do you agree with that statement? I agree with part of that statement, not all of that statement. Can you tell me what you agree with? Preferred shares rank behind debt, so they provide equity support for the bond holders regardless of whether the preferred share dividend is a rate we set or whether it's a

<u> </u>	18, 2016				NL Power GRA 2016
		Page 173			Page 175
1		Power's first mortgage bonds, there's the	1		Canadian capital markets". Do you agree
2		interest restriction. Generally gas	2		with that?
3		utilities particularly have a similar	3	DR. BOOTH:	
4		restriction, but the restriction applies to	4	A.	I'm not an investment banker, but I think if
5		the funded debt, not to preferred share	5		you went to an investment banker and said,
6		dividends. So that you can finance with	6		look, we want to issue 50 million dollars'
7		preferred shares and that provides an after	7		worth of preferred shares, the investment
8		tax expense that increases the overall	8		banker would say, well, I'll see what I can
9		operating income without affecting the	9		do, and the investment banker – 50 million
10		interest income, so the interest CAPM ratio	10		dollars is a lot of money. I'm sure the
11		goes up for purposes of the first mortgage	11		investment banker would be able to do it.
12		bond.	12	KELLY, Q.C.	
13	KELLY, Q.C.		13	Q.	You're not an investment banker, so you
14	Q.	Do you agree that credit rating agencies	14	Q.	can't take issue with this statement?
15	Q.	view these as similar to debt?	15	DR. BOOTH:	
16	DR. BOOTH:		16	A.	I would say that – you know, of course,
17	A.	It depends on what the terms of the	17	A.	Newfoundland Power does have preferred
18	A.	provisions are. Basically, if you get what	18		shares outstanding and it has about .8
19		we call a hard retraction where it's a five	19		percent of its capital structure in
20		year retractable preferred share in cash,	20		preferred shares.
21		they treat it as bonds. If it's a soft	21	KELLY, Q.C.	÷
$\begin{vmatrix} 21\\22\end{vmatrix}$		retraction where you can't get your money	22	Q.	Very old ones, long historical basis.
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$		back, but we'll give you more shares, then	23	DR. BOOTH:	very old olles, long historical basis.
24		they treat it as equity. So the thing about	24	A.	That's true, but their long historical basis
25		they treat it as equity. So the thing about	25	A.	That's true, but then long historical basis
		Dogo 174			Daga 176
1		Page 174	1		Page 176
1		preferred shares is they're similar to debt	1		where those were issued at one point in
2		preferred shares is they're similar to debt in the sense that they've got contractual	2		where those were issued at one point in time, and there were a small amount of
2 3		preferred shares is they're similar to debt in the sense that they've got contractual provisions and you can structure them to	2 3		where those were issued at one point in time, and there were a small amount of preferred shares were issued. So in terms
2 3 4		preferred shares is they're similar to debt in the sense that they've got contractual provisions and you can structure them to mimic equity, to mimic debt, to mimic a	2 3 4		where those were issued at one point in time, and there were a small amount of preferred shares were issued. So in terms of being available in the capital market, we
2 3 4 5		preferred shares is they're similar to debt in the sense that they've got contractual provisions and you can structure them to mimic equity, to mimic debt, to mimic a variety of securities. We even had at one	2 3 4 5		where those were issued at one point in time, and there were a small amount of preferred shares were issued. So in terms of being available in the capital market, we do have increased concentration in the
2 3 4 5 6		preferred shares is they're similar to debt in the sense that they've got contractual provisions and you can structure them to mimic equity, to mimic debt, to mimic a variety of securities. We even had at one point a company trying to issue 30 day	2 3 4 5 6		where those were issued at one point in time, and there were a small amount of preferred shares were issued. So in terms of being available in the capital market, we do have increased concentration in the capital market, so we tend to get big issues
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	KELLY, Q.C.:	preferred shares is they're similar to debt in the sense that they've got contractual provisions and you can structure them to mimic equity, to mimic debt, to mimic a variety of securities. We even had at one point a company trying to issue 30 day preferred shares, and Revenue Canada said this is ridiculous, you can't have 30 day preferred shares, they're supposed to be equity is supposed to be a permanent part of the capital structure. So instead of 30 day preferred shares, you issue long-term preferred shares where the dividend fluctuates with a short-term interest rate, and Fortis, for example, has issued long term preferred shares where the dividend fluctuates every quarter with the Treasury Bill rate. The statement then goes on, "Newfoundland Power has also been advised that a minimum	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C.	where those were issued at one point in time, and there were a small amount of preferred shares were issued. So in terms of being available in the capital market, we do have increased concentration in the capital market, so we tend to get big issues because they're sold through a relatively few number of big institutional purchasers. Have you examined or do you have any evidence that Newfoundland Power could market preferred shares of less than 100 million dollars? I'm 100 percent convinced that if they went through an investment banker and said we want to issue 50 million dollars' worth of preferred shares, they could get it done. You didn't answer my question. Have you studied it or got any evidence before the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	KELLY, Q.C.:	preferred shares is they're similar to debt in the sense that they've got contractual provisions and you can structure them to mimic equity, to mimic debt, to mimic a variety of securities. We even had at one point a company trying to issue 30 day preferred shares, and Revenue Canada said this is ridiculous, you can't have 30 day preferred shares, they're supposed to be equity is supposed to be a permanent part of the capital structure. So instead of 30 day preferred shares, you issue long-term preferred shares where the dividend fluctuates with a short-term interest rate, and Fortis, for example, has issued long term preferred shares where the dividend fluctuates every quarter with the Treasury Bill rate. The statement then goes on, "Newfoundland Power has also been advised that a minimum issue of 100 million would be required for a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q.	where those were issued at one point in time, and there were a small amount of preferred shares were issued. So in terms of being available in the capital market, we do have increased concentration in the capital market, so we tend to get big issues because they're sold through a relatively few number of big institutional purchasers. Have you examined or do you have any evidence that Newfoundland Power could market preferred shares of less than 100 million dollars? I'm 100 percent convinced that if they went through an investment banker and said we want to issue 50 million dollars' worth of preferred shares, they could get it done. You didn't answer my question. Have you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	KELLY, Q.C.: Q.	preferred shares is they're similar to debt in the sense that they've got contractual provisions and you can structure them to mimic equity, to mimic debt, to mimic a variety of securities. We even had at one point a company trying to issue 30 day preferred shares, and Revenue Canada said this is ridiculous, you can't have 30 day preferred shares, they're supposed to be equity is supposed to be a permanent part of the capital structure. So instead of 30 day preferred shares, you issue long-term preferred shares where the dividend fluctuates with a short-term interest rate, and Fortis, for example, has issued long term preferred shares where the dividend fluctuates every quarter with the Treasury Bill rate. The statement then goes on, "Newfoundland Power has also been advised that a minimum issue of 100 million would be required for a utility preferred share issue with a coupon	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	where those were issued at one point in time, and there were a small amount of preferred shares were issued. So in terms of being available in the capital market, we do have increased concentration in the capital market, so we tend to get big issues because they're sold through a relatively few number of big institutional purchasers. Have you examined or do you have any evidence that Newfoundland Power could market preferred shares of less than 100 million dollars? I'm 100 percent convinced that if they went through an investment banker and said we want to issue 50 million dollars' worth of preferred shares, they could get it done. You didn't answer my question. Have you studied it or got any evidence before the Board?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	KELLY, Q.C.: Q.	preferred shares is they're similar to debt in the sense that they've got contractual provisions and you can structure them to mimic equity, to mimic debt, to mimic a variety of securities. We even had at one point a company trying to issue 30 day preferred shares, and Revenue Canada said this is ridiculous, you can't have 30 day preferred shares, they're supposed to be equity is supposed to be a permanent part of the capital structure. So instead of 30 day preferred shares, you issue long-term preferred shares where the dividend fluctuates with a short-term interest rate, and Fortis, for example, has issued long term preferred shares where the dividend fluctuates every quarter with the Treasury Bill rate. The statement then goes on, "Newfoundland Power has also been advised that a minimum issue of 100 million would be required for a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C. Q.	where those were issued at one point in time, and there were a small amount of preferred shares were issued. So in terms of being available in the capital market, we do have increased concentration in the capital market, so we tend to get big issues because they're sold through a relatively few number of big institutional purchasers. Have you examined or do you have any evidence that Newfoundland Power could market preferred shares of less than 100 million dollars? I'm 100 percent convinced that if they went through an investment banker and said we want to issue 50 million dollars' worth of preferred shares, they could get it done. You didn't answer my question. Have you studied it or got any evidence before the

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		Page 177			Page 179
1		actually, it's not even my recommendation,	1		problem with that. The Alberta Utilities
2		Mr. Kelly. My recommendation is that this	2		Commission has no problem with that.
3		Board deem the preferred shares for the next	3	KELLY, Q.C.	÷
4		three years, so they don't actually have to	4	Q.	And that takes us then back to the question
5		issue them.	5		of deeming, and essentially what you're
6	KELLY, Q.C		6		suggesting to this Board is that 5 percent
7	Q.	Just hold that, I'm going to come to that	7		of the common equity be treated by the Board
8	ζ.	one. The company goes on, if I can come	8		and remunerated as if it was a preferred
9		down to lines 19 through 22, "The Board has	9		share, correct?
10		recognized that Newfoundland Power's	10	DR. BOOTH:	silare, correct.
11		relatively small size reduces its financial	11	A.	That's correct.
12		flexibility. The minimum issue size of the	12	KELLY, Q.C.	
13		utility preferred share issue of 100 million	13	Q.	So they would get about half the rate of
14		highlights this point. 100 million	14	ζ.	return on those common shares as they would
15		represents approximately 10 percent of the	15		on the other 40 percent?
16		company's forecast rate base". That's	16	DR. BOOTH:	on the other 40 percent:
17		statistically about right?	17	A.	Depends what rates of return that you're
18	DR. BOOTH	, ,	18	11.	assuming.
19	A.	I think that's true. The 5 percent is 55	19	KELLY, Q.C.	
20	A.	million, so 100 million, that's	20	Q.	I'm just using your –
21		approximately correct.	$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	DR. BOOTH:	1 iii just using your –
22	KELLY, Q.C	·	$\begin{vmatrix} 21\\22\end{vmatrix}$	A.	Well, that's true. I mean, see the
23	Q.	And the last time around we had this	23	A.	statement here, "preferred shares typically
24	Q.	discussion where you were suggesting that	24		carry a higher coupon than debt issue,
25		discussion where you were suggesting that	25		carry a migner coupon than debt issue,
123		Daga 170			Daga 190
1		Page 178			Page 180
1		somehow Fortis could mirror these shares	1		preferred shares have largely been displaced
1 2	DR BOOTH	2	1 2		preferred shares have largely been displaced by lower cost debt and utility capital
1 2 3	DR. BOOTH:	somehow Fortis could mirror these shares down?	1 2 3		preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway
1 2 3 4	DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO	1 2 3 4		preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace
1 2 3 4 5	A.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines.	1 2 3 4 5		preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at
1 2 3 4 5 6	A. KELLY, Q.C.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines.	1 2 3 4 5 6		preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity
1 2 3 4 5 6 7	A.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time,	1 2 3 4 5 6 7		preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred
1 2 3 4 5 6 7 8	A. KELLY, Q.C.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis	1 2 3 4 5 6 7 8		preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're
1 2 3 4 5 6 7 8 9	A. KELLY, Q.C. Q.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time,	1 2 3 4 5 6 7 8 9		preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more
1 2 3 4 5 6 7 8 9 10	A. KELLY, Q.C. Q. DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed?	1 2 3 4 5 6 7 8 9	VELLY O.C.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt.
1 2 3 4 5 6 7 8 9 10	A. KELLY, Q.C. Q.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these	1 2 3 4 5 6 7 8 9 10	KELLY, Q.C.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt.
1 2 3 4 5 6 7 8 9 10 11 12	A. KELLY, Q.C. Q. DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking	1 2 3 4 5 6 7 8 9 10 11 12	KELLY, Q.C. Q.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5
1 2 3 4 5 6 7 8 9 10 11 12 13	A. KELLY, Q.C. Q. DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that	1 2 3 4 5 6 7 8 9 10 11 12 13	, ,	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only
1 2 3 4 5 6 7 8 9 10 11 12 13 14	A. KELLY, Q.C. Q. DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching	1 2 3 4 5 6 7 8 9 10 11 12 13 14	, ,	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. KELLY, Q.C. Q. DR. BOOTH: A.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. KELLY, Q.C. Q. DR. BOOTH: A.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. DR. BOOTH:	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. KELLY, Q.C. Q. DR. BOOTH: A.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis. And that would breach the ring fencing	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return? Yes. Actually, that's what the Regie does
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. DR. BOOTH: A.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return? Yes. Actually, that's what the Regie does with Gaz Metro.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis. And that would breach the ring fencing requirements that the Board has set up?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. DR. BOOTH: A. KELLY, Q.C.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return? Yes. Actually, that's what the Regie does with Gaz Metro.
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q.	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis. And that would breach the ring fencing requirements that the Board has set up? Oh, I don't know about that. That's a legal	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. DR. BOOTH: A.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return? Yes. Actually, that's what the Regie does with Gaz Metro. And you told me a minute ago you're not a
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. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis. And that would breach the ring fencing requirements that the Board has set up? Oh, I don't know about that. That's a legal question that if the Board thinks it	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. DR. BOOTH: A. KELLY, Q.C.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return? Yes. Actually, that's what the Regie does with Gaz Metro. And you told me a minute ago you're not a lawyer, but I'm going to suggest to you that
1 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. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis. And that would breach the ring fencing requirements that the Board has set up? Oh, I don't know about that. That's a legal question that if the Board thinks it breaches its policies, then that's a Board	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return? Yes. Actually, that's what the Regie does with Gaz Metro. And you told me a minute ago you're not a lawyer, but I'm going to suggest to you that that would not be in accordance with our
1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. KELLY, Q.C. Q. DR. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis. And that would breach the ring fencing requirements that the Board has set up? Oh, I don't know about that. That's a legal question that if the Board thinks it breaches its policies, then that's a Board decision. All I'm saying is that ATCO	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. DR. BOOTH: A. KELLY, Q.C.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return? Yes. Actually, that's what the Regie does with Gaz Metro. And you told me a minute ago you're not a lawyer, but I'm going to suggest to you that that would not be in accordance with our Public Utilities Act, which requires an
1 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. BOOTH: A. KELLY, Q.C. Q. DR. BOOTH:	somehow Fortis could mirror these shares down? That's exactly what CU does with ATCO Electric, ATCO Gas, and ATCO Pipelines. And we had that discussion the last time, those shares would then carry a Fortis credit rating, agreed? That's correct. If Fortis issues these shares, then basically – when we're talking about mirroring down, all it means is that Newfoundland Power would issue a matching preferred share to Fortis. And that would breach the ring fencing requirements that the Board has set up? Oh, I don't know about that. That's a legal question that if the Board thinks it breaches its policies, then that's a Board	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. DR. BOOTH: A. KELLY, Q.C.	preferred shares have largely been displaced by lower cost debt and utility capital structure", I'm actually proposing a halfway house, I'm not proposing that they replace the 5 percent preferred shares with debt at the moment. Sorry, the 5 percent equity with debt at the moment. The preferred shares are more expensive than debt. They're less expensive than equity, but they're more expensive than debt. So on your proposal, that would lock in 5 percent of the common equity, but only remunerated at, let's say, approximately half the common equity rate of return? Yes. Actually, that's what the Regie does with Gaz Metro. And you told me a minute ago you're not a lawyer, but I'm going to suggest to you that that would not be in accordance with our

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		Page 181			Page 183
1		equity?	1		we need to have higher prices. Normally
2	DR. BOOTH:	± •	2		when a firm is under any form of competitive
3	A.	Well, it wouldn't be common equity. It would	3		threat, which is what you're implying for
4		be 5 percent deemed preferred shares.	4		Muskrat Falls, the – actually, the
5	KELLY, Q.C.	•	5		competitive firm is not to increase cost,
6	Q.	But they would – they would still be common	6		it's to reduce cost, but you're proposing
7	ζ.	equity shares.	7		essentially to increase cost.
8	DR. BOOTH:	equity shares.	8	KELLY, Q.C.	•
9	A.	I'm saying that the Board would deem 5	9	Q.	So do we agree with my question, that the
10	A.	percent preferred shares.	10	Q.	question the Board has to consider is that
11	KELLY, Q.C.		11		good regulatory practice to be doing that at
12		And you haven't studied that legal issue in	12		this point in time? That's the question the
13	Q.	•	13		÷
1	DD DOOTH.	this jurisdiction?	ı		Board has to address. Do we agree on that
14	DR. BOOTH:		14	DD DOOTH.	point?
15	A.	No, that's correct, Mr. Kelly, I'm not a	15	DR. BOOTH:	Tab:1-:4211-4
16		lawyer. I'm just telling the Board what the	16	A.	I think it's good regulatory practice at the
17		Regie does for Gaz Metro, what the AUC does	17		current point in time if the Board tells the
18		for CU Inc. If you tell me that there's	18		rating agencies and the company that the
19		specific legal problems that restrict the	19		common equity ratio, they reaffirm that the
20		actions of this Board, then we're back to	20		range is 40 to 45 percent, and for the next
21		saying, well, issue 50 million dollars'	21		three years they're going to deem 5 percent
22		worth or preferred shares. If we were	22		of the equity as being preferred shares, and
23		forced into that situation, then I would	23		keep its flexibility open to deal with an
24		tend to agree with Dr. Cleary and say, well,	24		possible problems in the next GRA.
25			25		
		Page 182			Page 184
1		Page 182 perhaps in those circumstances we should	1	KELLY, Q.C.:	•
			1 2	KELLY, Q.C.	•
1		perhaps in those circumstances we should	1 2 3		
1 2		perhaps in those circumstances we should take advantage of current low interest rates	l	Q.	
1 2 3		perhaps in those circumstances we should take advantage of current low interest rates and go directly to refund that 5 percent	3	Q. DR. BOOTH:	Okay.
1 2 3 4		perhaps in those circumstances we should take advantage of current low interest rates and go directly to refund that 5 percent equity as debt, but at the moment, my	3 4	Q. DR. BOOTH:	Okay. I would say that's a reasonable halfway
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1 2 3 4 5 6 7		perhaps in those circumstances we should take advantage of current low interest rates and go directly to refund that 5 percent equity as debt, but at the moment, my recommendations are a lot more flexible. It's basically deem the equity for three year period until we see what happens with	3 4 5 6	Q. DR. BOOTH:	Okay. I would say that's a reasonable halfway house between taking what is currently the
1 2 3 4 5 6		perhaps in those circumstances we should take advantage of current low interest rates and go directly to refund that 5 percent equity as debt, but at the moment, my recommendations are a lot more flexible. It's basically deem the equity for three year period until we see what happens with Muskrat Falls, and then think about how the	3 4 5 6 7	Q. DR. BOOTH:	Okay. I would say that's a reasonable halfway house between taking what is currently the most generous common equity ratio almost of any utility in Canada, and not going immediately to the most tax efficient
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	Page 185		Page 187
1	possible.	1	the current risk free rate, and your market
2	KELLY, Q.C.:	2	risk premium, and your beta, the ranges, you
3	Q. Thank you, Dr. Booth. Once again, I've	3	
4	enjoyed our discussion.	4	
5	DR. BOOTH:	5	
6	A. As have I too, Mr. Kelly.	6	
7	CHAIRMAN:	7	7 A. That's correct.
8	Q. I think we're over to you, Madam.	8	
9	DR. LAURENCE BOOTH – CROSS-EXAMINATION BY GREENE,	9	
10	Q.C.:	10	, , , , , , , , , , , , , , , , , , ,
11	Q. Thank you, Mr. Chair. Good afternoon, Dr.	11	. .
12	Booth. I just wanted to talk to you for a	12	· · · · · · · · · · · · · · · · · · ·
1	· ·	1	
13	few moments with respect to your unadjusted	13	e , , ,
14	CAPM, and Mr. Kelly did bring you there	14	
15	earlier this morning, but if we could go to	15	
16	page 42 of your report, please.	16	j
17	MS. PIERCEY:	17	8 8
18	Q. Page 42 of his current report?	18	, , ,
19	GREENE, Q.C.:	19	
20	Q. His original report filed in this	20	<i>y</i> 1
21	Application. While we're waiting for it to	21	3 6
22	come up, perhaps we can cover a few –	22	2 three years as well, including my colleagues
23	DR. BOOTH:	23	at the University of Toronto.
24	A. This is 2012.	24	4 GREENE, Q.C.:
25		25	5
	Page 186		Page 188
1	GREENE, Q.C.:	1	Q. But I'm just going – we understand the
2	Q. It's the current – this proceeding. I think	2	
3	we firmly established by now, Dr. Booth,	3	
4	that you believe that CAPM is the most	4	•
5	appropriate method to use to determine the	5	*
6	ROE for the utility because it most properly	6	
7	reflects the financial -	7	the risk free rate. Now I wanted to now
8	DR. BOOTH:	8	
9		1 ~	R look at Mr. Covne's unadjusted CAPM which we
1 9	A Under normal circumstances ves	9	, , , , , , , , , , , , , , , , , , ,
1	A. Under normal circumstances, yes.	9	actually looked at with him, which is PUB-
10	GREENE, Q.C.:	10	actually looked at with him, which is PUB- NP-064. You were here when I had some
10 11	GREENE, Q.C.: Q. Okay. So that normally the CAPM is the	10 11	actually looked at with him, which is PUB-NP-064. You were here when I had some discussion with Mr. Coyne about that.
10 11 12	GREENE, Q.C.: Q. Okay. So that normally the CAPM is the appropriate method, but give the current	10 11 12	actually looked at with him, which is PUB-NP-064. You were here when I had some discussion with Mr. Coyne about that. DR. BOOTH:
10 11 12 13	GREENE, Q.C.: Q. Okay. So that normally the CAPM is the appropriate method, but give the current situation which has continued from when we	10 11 12 13	actually looked at with him, which is PUB-NP-064. You were here when I had some discussion with Mr. Coyne about that. DR. BOOTH: A. I was.
10 11 12 13 14	GREENE, Q.C.: Q. Okay. So that normally the CAPM is the appropriate method, but give the current situation which has continued from when we were talking about it before, with the low	10 11 12 13 14	actually looked at with him, which is PUB-NP-064. You were here when I had some discussion with Mr. Coyne about that. DR. BOOTH: A. I was. GREENE, Q.C.:
10 11 12 13 14 15	GREENE, Q.C.: Q. Okay. So that normally the CAPM is the appropriate method, but give the current situation which has continued from when we were talking about it before, with the low Canada bond rate and the current interest	10 11 12 13 14 15	actually looked at with him, which is PUB-NP-064. You were here when I had some discussion with Mr. Coyne about that. DR. BOOTH: A. I was. GREENE, Q.C.: Q. So his unadjusted CAPM, and we accept that
10 11 12 13 14 15 16	GREENE, Q.C.: Q. Okay. So that normally the CAPM is the appropriate method, but give the current situation which has continued from when we were talking about it before, with the low Canada bond rate and the current interest environment, it needs to be adjusted, is	10 11 12 13 14 15 16	actually looked at with him, which is PUB-NP-064. You were here when I had some discussion with Mr. Coyne about that. DR. BOOTH: A. I was. GREENE, Q.C.: Q. So his unadjusted CAPM, and we accept that he uses a different beta than you do, would
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10 11 12 13 14 15 16 17 18	GREENE, Q.C.: Q. Okay. So that normally the CAPM is the appropriate method, but give the current situation which has continued from when we were talking about it before, with the low Canada bond rate and the current interest environment, it needs to be adjusted, is that correct? DR. BOOTH:	10 11 12 13 14 15 16 17 18	actually looked at with him, which is PUB-NP-064. You were here when I had some discussion with Mr. Coyne about that. DR. BOOTH: A. I was. GREENE, Q.C.: Q. So his unadjusted CAPM, and we accept that he uses a different beta than you do, would be – when you look down below, it is 6.8 percent, but that includes his 50 basis
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		Page 189			Page 191
1		on the unadjusted CAPM, within the same	1		credit adjustment does pick up the changes
2		range. His 6.3 would fall within your range	2		in the spreads for utility debt, and that
3		we just looked at of 5.56 to 6.61?	3		has been accepted just about everywhere as a
1 4	DR. BOOTH	•	4		reasonable adjustment. I call it the
5	A.	That's correct.	5		conditional CAPM pricing model simply
6	GREENE, Q.		6		because we have a long literature on the
7	Q.	Okay, and we've already established, I	7		conditional CAPM, and the idea is simply
8	٧.	believe, today that given the current market	8		that we try and incorporate data to indicate
9		conditions, that's not appropriate and I	9		and make it more sensitive to current
10		think you also said earlier today that, in	10		capital market conditions.
11		fact, when you're looking at how it should	11	GREENE, Q.O	•
12		be adjusted, more judgment is required today	12	Q.	And your adjustment for it to reflect the
13		than even when we talked about it last time,	13	Q.	current market conditions turns out to be
1		is that correct?	14		
14	DR. BOOTH		1	DD DOOTH.	about 175 basis points?
15			15	DR. BOOTH:	
16	A.	That's correct. Last time, I was reasonably	16	A.	That's right. The major one is the 45 basis
17		confident in the data for the preferred	17		points for the credit spreads. That's
18	CDEENIE O	share yields. This time, I'm not.	18		objective. The research of the Bank of
19	GREENE, Q.		19		Canada says it shouldn't be 50 percent, it
20	Q.	And when we go through your adjustments,	20		should be a little bit lower. Almost every
21		which you've already explained with Mr.	21		board that I'm aware of that's thought about
22		Kelly, so I don't think it's necessary to do	22		an automatic adjustment mechanism has
23		it, you do add the credit risk – the spread	23		incorporated 50 percent adjustment to
24		for the credit risk?	24		spreads, so I'd say that's reasonably
25			25		
-			-		
		Page 190			Page 192
1	DR. BOOTH:	Page 190	1		Page 192 acceptable. The BCUC, the OEB, the Regie,
1 2	DR. BOOTH:	Page 190 That's correct.	1 2		•
1		That's correct.	1		acceptable. The BCUC, the OEB, the Regie,
1 2	A.	That's correct.	2		acceptable. The BCUC, the OEB, the Regie, have all accepted a 50 percent adjustment to
1 2 3	A. GREENE, Q.O	That's correct.	2 3		acceptable. The BCUC, the OEB, the Regie, have all accepted a 50 percent adjustment to the spreads, and I've never had any serious
1 2 3 4	A. GREENE, Q.O	That's correct. C.: And the Operation Twist adjustment to	2 3 4		acceptable. The BCUC, the OEB, the Regie, have all accepted a 50 percent adjustment to the spreads, and I've never had any serious objection to that because over a business
1 2 3 4 5	A. GREENE, Q.O	That's correct. And the Operation Twist adjustment to reflect the global bond buying program of	2 3 4 5		acceptable. The BCUC, the OEB, the Regie, have all accepted a 50 percent adjustment to the spreads, and I've never had any serious objection to that because over a business cycle you would hope the average to work out
1 2 3 4 5 6	A. GREENE, Q.O	That's correct. And the Operation Twist adjustment to reflect the global bond buying program of the various global governments, you came up	2 3 4 5 6		acceptable. The BCUC, the OEB, the Regie, have all accepted a 50 percent adjustment to the spreads, and I've never had any serious objection to that because over a business cycle you would hope the average to work out to be the average, which is 100 basis
1 2 3 4 5 6 7	A. GREENE, Q.O	That's correct. 2.: And the Operation Twist adjustment to reflect the global bond buying program of the various global governments, you came up with 7.5, so if we could go over to page 45	2 3 4 5 6 7		acceptable. The BCUC, the OEB, the Regie, have all accepted a 50 percent adjustment to the spreads, and I've never had any serious objection to that because over a business cycle you would hope the average to work out to be the average, which is 100 basis points. Since 2012, I've begun to suspect
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1 2 3 4 5 6 7 8 9 10	A. GREENE, Q.O	That's correct. 2.: And the Operation Twist adjustment to reflect the global bond buying program of the various global governments, you came up with 7.5, so if we could go over to page 45 just to have a look at your adjusted CAPM and take those two conditions into account. So here we see your range has increased	2 3 4 5 6 7 8 9 10		acceptable. The BCUC, the OEB, the Regie, have all accepted a 50 percent adjustment to the spreads, and I've never had any serious objection to that because over a business cycle you would hope the average to work out to be the average, which is 100 basis points. Since 2012, I've begun to suspect seriously that we're never going to get back to 100 basis point spreads on "A" bonds, that's no longer normal, unless we get the
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1	A.	Well, I'd qualify that and say that not the	1		this proceeding, and when you look at those
2		full 175 basis points is judgment. I think	2		results, you've already explained why you
3		the 45 basis points for the credit spreads	3		were conservative in pulling it towards your
4		is just basically the same as the OEB, the	4		adjusted CAPM or your conditional CAPM to
5		same as the Regie, the same as the BC	5		the low end of the range, is that correct?
6		Utilities Commission, so I would say that	6	DR. BOOTH:	
7		that – I'm not imposing significant judgment	7		That's correct.
8		there. I'm just making the estimate a	8	GREENE, Q.C	
9		little bit more sensitive to the business	9		So that is one difference you would have as
10		cycle. The major area of judgment is this	10	-	well with Mr. Coyne?
11		attempt to try and handle the bond buying,	11	DR. BOOTH:	wen with ivii. Coyne:
12		the implications of the bond buying program,	12		That's correct.
13		and 130 basis points now, 80 basis points	13	GREENE, Q.C	
14		three years ago, 80 basis points I was	14	, ,	
1			ı	-	Now you also looked at DCF to, I'll say, validate or to inform your judgment with
15		comfortable with, 130 I'm not comfortable	15		, , ,
16		with, but that is certainly the major area	16		respect to your recommendation, is that correct?
17	ODEENIE O	of judgment.	17		correct?
18	GREENE, Q.		18	DR. BOOTH:	TTI () (A11 () () ()
19	Q.	And again you have agreed that more judgment	19		That's correct. All my estimates inform my
20		even is required this time when looking at	20		judgment, but the DCF, I started doing this
21		how CAPM should be adjusted for the	21		analysis four years ago that shows that they
22		marketplace?	22		should be the same, but under periods of
23	DR. BOOTH:		23		very low real returns, real bond yields,
24	A.	That's correct, but I'll just point out	24		which is what we've got at the moment, the
25			25		
		Page 194			Page 196
1		there that it's not just me saying this, I	1		isk premium models underestimate DCF models
2		mean, the Duff & Phelps report that I sent	2		inless you go into the sort of adjustments
3		around, they've recalibrated the market risk	3		hat I'm making.
4		premium at 5.5 percent, which is right in	4	GREENE, Q.C.	
5		the middle of my 5 to 6 percent range,	5	Q.	And in terms of looking at how the board
6		except that it's based upon a normalized	6	S	hould look at your DCF analysis to see the
7		long term U.S. government bond yield, and	7	a	djustments, I want to talk to you first
8		they use 4 percent, I tend to think 3.8	8	a	bout, while you have agreed with Mr. Kelly
9		percent, but the point is they accept the	9	C	on the capital markets are more integrated
10		normalized bond yield when they do their	10	r	now than ever, you still believe there
11		risk premium analysis. AON Hewitt looks at	11	S	hould be some adjustment made to reflect
12		a normalized or a long run – they call it a	12	Ċ	lifferences between the economies and take
		long run target bond yield of 4.18 percent.	13	f	hat into account is that correct?
13			1 10	·	hat into account, is that correct?
13 14		So I think everybody will recognize that the	14	MR. BOOTH:	nat into account, is that correct?
1			ı	MR. BOOTH:	Sure. I mean, the capital markets between
14		So I think everybody will recognize that the	14	MR. BOOTH:	·
14 15		So I think everybody will recognize that the current long term bond yields are not	14 15	MR. BOOTH: A. S	Sure. I mean, the capital markets between
14 15 16		So I think everybody will recognize that the current long term bond yields are not anywhere close to normal equilibrium,	14 15 16	MR. BOOTH: A. S	Sure. I mean, the capital markets between he U.S. and Canada are reasonably
14 15 16 17		So I think everybody will recognize that the current long term bond yields are not anywhere close to normal equilibrium, however you want to define it, so 3.8, 4,	14 15 16 17	MR. BOOTH: A. S t i	Sure. I mean, the capital markets between the U.S. and Canada are reasonably integrated. They're reasonably integrated
14 15 16 17 18		So I think everybody will recognize that the current long term bond yields are not anywhere close to normal equilibrium, however you want to define it, so 3.8, 4, 4.1, I think it is from the AON Hewitt, that's where my judgment comes in, but it's	14 15 16 17 18	MR. BOOTH: A. S t i	Sure. I mean, the capital markets between the U.S. and Canada are reasonably integrated. They're reasonably integrated even more so between the U.S. and the U.K.
14 15 16 17 18 19		So I think everybody will recognize that the current long term bond yields are not anywhere close to normal equilibrium, however you want to define it, so 3.8, 4, 4.1, I think it is from the AON Hewitt,	14 15 16 17 18 19	MR. BOOTH: A. S t i	Sure. I mean, the capital markets between the U.S. and Canada are reasonably integrated. They're reasonably integrated even more so between the U.S. and the U.K. You can also say they're integrated with
14 15 16 17 18 19 20	GREENE, Q	So I think everybody will recognize that the current long term bond yields are not anywhere close to normal equilibrium, however you want to define it, so 3.8, 4, 4.1, I think it is from the AON Hewitt, that's where my judgment comes in, but it's not just my judgment, it's the judgment of almost all market participants.	14 15 16 17 18 19 20	MR. BOOTH: A. S. t. i. e. y. i.	Sure. I mean, the capital markets between the U.S. and Canada are reasonably integrated. They're reasonably integrated even more so between the U.S. and the U.K. You can also say they're integrated with Brazil, Mexico, Thailand. The global capital
14 15 16 17 18 19 20 21	GREENE, Q Q.	So I think everybody will recognize that the current long term bond yields are not anywhere close to normal equilibrium, however you want to define it, so 3.8, 4, 4.1, I think it is from the AON Hewitt, that's where my judgment comes in, but it's not just my judgment, it's the judgment of almost all market participants.	14 15 16 17 18 19 20 21	MR. BOOTH: A. S t i e Y I t t	Sure. I mean, the capital markets between the U.S. and Canada are reasonably integrated. They're reasonably integrated even more so between the U.S. and the U.K. You can also say they're integrated with Brazil, Mexico, Thailand. The global capital markets are becoming more integrated all the
14 15 16 17 18 19 20 21 22		So I think everybody will recognize that the current long term bond yields are not anywhere close to normal equilibrium, however you want to define it, so 3.8, 4, 4.1, I think it is from the AON Hewitt, that's where my judgment comes in, but it's not just my judgment, it's the judgment of almost all market participants.	14 15 16 17 18 19 20 21 22	MR. BOOTH: A. S. t. i. i. e. y. i.	Sure. I mean, the capital markets between the U.S. and Canada are reasonably integrated. They're reasonably integrated even more so between the U.S. and the U.K. You can also say they're integrated with Brazil, Mexico, Thailand. The global capital markets are becoming more integrated all the time, but if I was to come before the Board
14 15 16 17 18 19 20 21 22 23		So I think everybody will recognize that the current long term bond yields are not anywhere close to normal equilibrium, however you want to define it, so 3.8, 4, 4.1, I think it is from the AON Hewitt, that's where my judgment comes in, but it's not just my judgment, it's the judgment of almost all market participants. C.: And what I'm trying to do is compare your	14 15 16 17 18 19 20 21 22 23	MR. BOOTH: A. S. t. i. i. e. y. i.	Sure. I mean, the capital markets between the U.S. and Canada are reasonably integrated. They're reasonably integrated even more so between the U.S. and the U.K. You can also say they're integrated with Brazil, Mexico, Thailand. The global capital markets are becoming more integrated all the time, but if I was to come before the Board and take a tied back rate of return and say,

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1	of return for Newfoundland Power, I think a	1		U.S. DCF estimate.
2	lot of eyebrows would be raised. So	2	GREENE, Q.O	C.:
3	integrated doesn't mean to say the rates of	3	Q.	And I understand then that you believe that
4	return are exactly the same. It just means	4		would be a reasonable adjustment to make
5	to say that the capital markets trading	5		this time as well if that's where the Board
6	amongst those securities is basically free	6		decides to make an adjustment?
7	of impediments.	7	DR. BOOTH:	and any
8	GREENE, Q.C.:	8	A.	I would probably say it's even more
9	Q. So in terms of the Board and what it must do	9	11.	appropriate now because the evidence in
10	when it's considering what the fair return	10		terms of the gas companies in the United
11	is, what would your opinion be with respect	11		States is less clear than the evidence in
12	to the type of adjustment the Board should	12		terms of the electric companies in terms of
13	make when looking at the U.S. data?	13		the risk comparisons. I have real
14	DR. BOOTH:	14		difficulty in taking Duke Energy, with all
15		15		those nuclear plants, and saying it's
1	A. Before the BCUC, I recommended adjustment – I can't remember whether I recommended 50 or	ı		=
16		16	CDEENE O	comparable to a T & D company in Canada.
17	100, but the BCUC, I think, took 50 to 100. This Board took 50 to 100 in 2013. When we	17	GREENE, Q.O	
18		18	Q.	Now the other adjustment that we talked
19	look at what's going on in the U.S. versus	19		about already is the influence of analysts'
20	Canada, I would say there's absolutely no	20		bias with respect to how DCF is used. Again
21	question that U.S. utilities, and I'm	21		I gather from your evidence today, you
22	referring to U.S. utility holding companies,	22		believe that it still continues to be an
23	the ones that we're using to get insight	23		issue, still influencing analysts' growth
24	into the fair rate of return for	24		estimates. What do you believe the – do you
25		25		
	Page 198			Page 200
1	Page 198 Newfoundland Power, there's no question in	1		Page 200 believe the Board should consider that and
1 2	e	1 2		•
1	Newfoundland Power, there's no question in	ı		believe the Board should consider that and
2	Newfoundland Power, there's no question in my mind that the electric holding companies	2	(12:45 p.m.)	believe the Board should consider that and make any adjustment when looking at DCF
2 3	Newfoundland Power, there's no question in my mind that the electric holding companies in the U.S. are riskier than Newfoundland	2 3	(12:45 p.m.) DR. BOOTH:	believe the Board should consider that and make any adjustment when looking at DCF
2 3 4	Newfoundland Power, there's no question in my mind that the electric holding companies in the U.S. are riskier than Newfoundland Power, because they're predominantly	2 3 4		believe the Board should consider that and make any adjustment when looking at DCF
2 3 4 5	Newfoundland Power, there's no question in my mind that the electric holding companies in the U.S. are riskier than Newfoundland Power, because they're predominantly integrated utilities, they've got	2 3 4 5	DR. BOOTH:	believe the Board should consider that and make any adjustment when looking at DCF results?
2 3 4 5 6	Newfoundland Power, there's no question in my mind that the electric holding companies in the U.S. are riskier than Newfoundland Power, because they're predominantly integrated utilities, they've got generation, they've not nuclear plants,	2 3 4 5 6	DR. BOOTH:	believe the Board should consider that and make any adjustment when looking at DCF results? First of all, I don't think it's an issue.
2 3 4 5 6 7	Newfoundland Power, there's no question in my mind that the electric holding companies in the U.S. are riskier than Newfoundland Power, because they're predominantly integrated utilities, they've got generation, they've not nuclear plants, they've got all sorts of things going on,	2 3 4 5 6 7	DR. BOOTH:	believe the Board should consider that and make any adjustment when looking at DCF results? First of all, I don't think it's an issue. I think there's absolutely no question
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2 3 4 5 6 7 8 9	Newfoundland Power, there's no question in my mind that the electric holding companies in the U.S. are riskier than Newfoundland Power, because they're predominantly integrated utilities, they've got generation, they've not nuclear plants, they've got all sorts of things going on, and the empirical evidence in terms of their betas is the betas are consistently .1, .15,	2 3 4 5 6 7 8 9	DR. BOOTH:	believe the Board should consider that and make any adjustment when looking at DCF results? First of all, I don't think it's an issue. I think there's absolutely no question analysts are biased. I'm not aware of any significant academic research that indicates
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1	as I was preparing this testimony, RBC's	1		far as I can remember, at least for the last
2	Playbook comes out with all of these	2		ten years, used analysts' forecasts within a
3	pictures, and it's basically a compendium of	3		Canadian setting or a U.S. setting without
4	graphs, and RBC accepts and they've got a	4		actually trying to make adjustments to make
5	graph, a little table that looks almost	5		sure that they make sense. It's
6	exactly the same as McKenzie, which is that	6		unreasonable to think of 13/14 percent
7	the analysts start out optimistic, and as	7		returns in the Canadian capital market. The
8	you get closer and closer and closer to the	8		Chairman pointed out the world is 72. I
9	date, they get more information from the	9		mean, if I thought that was really going to
10	company, and generally their estimates are	10		happen, I mean, we'd just close up shop, I'd
11	brought down until eventually they're pretty	11		just make enough money and I could retire,
12	close, but they start out optimistic. Now	12		but that hasn't happened, and I don't think
13	when the economy is rising and earnings are	13		it will happen. You have to bear in mind
14	rising, the bias isn't as great as it is in	14		that overall we're constrained by the growth
15	the opposite when it's going down. When we	15		rate in the economy. Some firms may grow
1	11 0 0	16		faster than the economy for a period of
16	talk about the bias in analysts' forecasting	1		· · · · ·
17	going down in the 2000s, 2004, 2005, 2006,	17		time, but not indefinitely, not forever, and
18	these are years when the equity market was	18	CREENE O	certainly not utilities.
19	doing very well. So the bias went down	19	GREENE, Q.O	
20	probably not because of any implicit change	20	Q.	So if we come back to the multi-stage model
21	in their approach, but simply because	21		and if that's the one the Board considers
22	earnings ended up being better than they	22		and takes into account in weighing the
23	anticipated. Those were good years for the	23		evidence before it, what is your opinion of
24	stock market. So I deliberately try in my	24 25		the magnitude of the adjustment that the
25	2 404	123		
	Page 202			Page 204
1	evidence to put information that is out	1		Page 204 Board should consider making?
1 2	evidence to put information that is out there being told to investors. RBC is	1 2	DR. BOOTH:	Board should consider making?
1 2 3	evidence to put information that is out there being told to investors. RBC is telling investors in its Playbook that	1 2 3	DR. BOOTH: Q.	Board should consider making? Well, here's an interesting question. If
1 2	evidence to put information that is out there being told to investors. RBC is telling investors in its Playbook that analysts are biased. McKenzie is telling	1 2		Board should consider making? Well, here's an interesting question. If the Board thinks that the short run five
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1		and I've yet to see any witness show any	1	took you through your recommendations in
2		evidence whatsoever that U.S. utilities can	2	other proceedings in the actual and the
3		over a long period of time grow their	3	result there is an RFI on record with
4		earning to the growth rate and GDP.	4	respect to it. And obviously it
5	GREENE, Q.		5	demonstrates that you would tend to be
6	Q.	So coming back, if you looked at the multi-	6	somewhat lower than what the allowed ROEs
7		stage results, is there a specific basis	7	would be. And you've already indicated in
8		point adjustment that you would recommend to	8	how you came up with your estimate, now that
9		the Board they should use to adjust for	9	you tend to be conservative, is that
10		analysts' bias?	10	correct?
11	DR. BOOTH:		11	DR. BOOTH:
12	A.	I'd have to think about that. Off the top	12	A. I think I'm very conservative. I could have
13		of my head, I can't tell you 50 basis	13	just come in and given a CAPM and said, 6, 6
14		points, 100 basis points. I tend to	14	½ percent, that's a fair ROE. And when you
15		believe that what's important is the growth	15	look at the utilities you have to think in
16		sustainable. Oliver Wyman says 3.3 percent	16	terms of how does the market value the
17		growth. I wasn't aware of that until the	17	utilities which is the market to book ratio
18		document came out in this hearing room, but	18	and I've constantly referred to that as the
19		it's similar to the growth rate that's	19	dirty window problem, the investors are
20		sustainable from the profitability of the	20	looking through a dirty window to get an
21		utilities in the amount that they've	21	idea of what the true profitability of the
22		retained within their rate base. So I would	22	utility is. But we don't see any public
23		suggest the Board looks at sustainable	23	utilities. They've all been traded on the
24		growth rate. If it rejects the constant	24	market. They're all been taken over by
25		<i>y</i>	25	, , , , , , , , , , , , , , , , , , ,
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1		growth models, as it has in the past, then	1	holding companies and then we discover the
2		implicitly it has to think that the multi-	2	holding company doesn't have the utilities
3		stage models are also biased, not to the	3	capital structure; it has a lot more debt in
4		same degree, but by definition, they're	4	its capital structure whether that's
5		regarded as overestimates, and think about	5	Enbridge Inc., whether it's Fortis and
6		the sustainable growth rate and the multi-	6	Fortis is not that bad. And then you
7		stage model somewhere in between there might	7	wondering what's going on here? And they're
8		be a reasonable number.	8	using the cash flows from the utilities to
9	GREENE, (9	fund a corporate empire. This has been going
10	Q.	At this point you're not in a position to	10	on for the last 25 years in Canada. So, if,
11	χ.	actually be specific on the basis point	11	in fact, these utilities were regulated as—I
12		adjustment.	12	wouldn't say as they should be—but if they
13	DR. BOOTI	•	13	were regulated in terms of a fair ROE and
14	A.	No, I tend to believe that, as I just said,	14	common equity ratio, there'd be no value
15		if analysts growth rates are biased,	15	whatsoever for another company buying them
16		optimistic as I think they are, then that	16	as part of a corporate empire. But the fact
17		means the first ten years of a mortgage	17	is that there's a little bit of gravy on the
18		stage model are overestimates by definition.	18	table and the holding companies buy
19		You can't have it any other way. If you	19	utilities because they can leverage out the
20		reject the constant growth model, you're	20	assets and then use the proceeds to buy
21		rejecting the first ten years of the	21	another utility. That's what Fortis has
22		mortgage stage model.	22	been doing for the last 20 years.
23	GREENE, (23	GREENE, Q.C.:
24	Q.	Moving onto my last questions, Mr. Kelly	24	Q. And so for those reasons you've expressed
25	٧٠		25	Q. This so for mose reasons you we expressed
1 40				

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1	you would recommend that the Board also be	1	problem. Short term dividend growth rates
2	concerned when looking at the data that's	2	for public utilities did not differ
3	been presented, is that correct?	3	significantly from GDP growth rates. On
4	DR. BOOTH:	4	page 17, the FERC said, as long ago as 1983
5	A. I would say that I would not recommend the	5	when it first adopted the constant growth
1 ,	Board give an allowed ROE of 6, 6 ½ percent.	6	DCF model for gas pipeline causes, the
6	I think the utilities in Canada could be	7	
7	financed on ROEs even that low. I	8	projections by investment advisor services
8		9	of growth for relatively short periods of time cannot be relied on without further
9	recommended 7.5 percent and I'm not	1	
10	recommending that we push Newfoundland Power	10	consideration. So, we're talking about
11	down to the 36 to 38 percent of other	11	analyst's growth forecasts. 1983, 33 years
12	distribution companies in Canada. I'm	12	ago FERC said it can't be relied upon. So,
13	recommending 40 percent and even there I'm	13	it's not just me saying there's a problem
14	recommending the 5 percent equity basically	14	with growth forecasts. Then as I said, I
15	be deemed as preferred shares. I'm not	15	was pointing out that, if I read it
16	recommending what I would regard as a harsh	16	correctly, the FERC has a paper hearing into
17	situation, I would regard my recommendations	17	looking at whether or not U.S. pipelines can
18	as pretty moderate. And I think—I'm well	18	grow at the growth rate of GDP. Because if
19	aware of Muskrat Falls and I'm well aware	19	you take these analysts forecast and taper
20	that beyond the test year there may be some	20	them to GDP, as far as—as I've said, I can't
21	issues that the Board has to deal with. So,	21	see any evidence on the record anywhere that
22	be as flexible as possible.	22	utilities, low risk stable utilities can
23	GREENE, Q.C.:	23	grow at the growth rate in GDP. Having said
24	Q. Okay. Thank you, Dr. Booth. That's all my	24	that, there is a difference in the United
25		25	,
	Page 210		Page 212
1	questions.	1	States because they've had this huge roll
2	CHAIRMAN:	2	out of infrastructure in the transmission
3	Q. So, I think I'm –	3	grid after the big brownout that we had in
4	DR. BOOTH, RE-EXMAINATION-IN-CHIEF BY THOMAS JOHNSON,	4	Eastern—in Canada and Eastern United States.
5	Q.C.	_ ا	So, there was all sorts of incentives in the
6	JOHNSON, Q.C.:	5	United States to modernize their
1		6	
7	•	/ 0	infrastructure which was not in a good
8	Booth, when Mr. Kelly was cross-examining	8	shape.
9	you, you indicated momentarily in relation	9	JOHNSON, Q.C.:
10	to the FERC document that you had made a	10	Q. That was my question, thank you very much,
11	couple notes about it, but then the cross-	11	Dr. Booth.
12	examination moved on. And I just wanted to	12	DR. BOOTH, CROSS-EXAMINATION BY MR. CHAIRMAN
13	ask you whether there was anything further	13	CHAIRMAN:
14	that you wanted to add in relation to the	14	Q. Do you have any? I just got a few
15	FERC document.	15	questions. I'll be ask quick as I possibly
16	DR. BOOTH:	16	can. You said in you 2013 evidence and I
17	A. I just point out that on page 11 of that	17	was taken by it, the cost of capital is not
18	document, the Commission reversed the	18	as complicated as experts make it. There's
		L 10	muhlia information available from avah
19	presiding judge's sole reliance on five year	19	public information available from such
		20	sources as they list a bunch of them. And
19	presiding judge's sole reliance on five year	1	•
19 20	presiding judge's sole reliance on five year growth estimates. So, they went with some	20	sources as they list a bunch of them. And
19 20 21	presiding judge's sole reliance on five year growth estimates. So, they went with some sort of tapering, as in the multi stage	20 21	sources as they list a bunch of them. And there's no reason to change that opinion
19 20 21 22	presiding judge's sole reliance on five year growth estimates. So, they went with some sort of tapering, as in the multi stage model. Page 16 they highlight wide gap	20 21 22	sources as they list a bunch of them. And there's no reason to change that opinion now, is there?
19 20 21 22 23	presiding judge's sole reliance on five year growth estimates. So, they went with some sort of tapering, as in the multi stage model. Page 16 they highlight wide gap between short term and long term natural gas	20 21 22 23	sources as they list a bunch of them. And there's no reason to change that opinion now, is there? DR. BOOTH:

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1		difficult problems we deal with in finance	1	a good marker there, you're saying.
2		courses.	2	(1:00 p.m.)
3	CHAIRMAN		3	DR. BOOTH:
4	Q.	In 2013 I think you testified or you	4	A. It's not as good as it used to be, but I
5	٧.	provided us with returns on the TSE of	5	think that when you—and the AUC accepted
1 .		around 9.1/9.5.	6	this, they said well, if we got these
6 7	DR. BOOT		7	estimates for the overall equity market and
1			l	* *
8	A.	And I've still got that data. That's on	8	they accepted my estimates, then they say,
9	CHAIDMA	Schedule 1.	9	well, we're comfortable that the utilities
10	CHAIRMA		10	expected return, required return has to be
11	Q.	That hasn't changed significantly?	11	less than that. And basically it's why I
12	DR. BOOT		12	put all this information for AON Hewitt and
13	A.	Well, no, when you add just three more years	13	Duff & Phelps and my own estimates, it's
14		of data, it doesn't make a huge difference.	14	difficult to see how the overall equity
15		It's come down a little bit because we've	15	market return can exceed 7 percent long run,
16		lost some of the profitability from the	16	8/9 percent short run, arithmetic returns.
17		energy companies.	17	And I would suggest to anybody, look at
18	CHAIRMA	N:	18	their portfolio and say, what does it do for
19	Q.	How many shares, how many stocks are on the	19	me, if I get 7 percent on the TSX from now
20		TSE?	20	until I retire? And I promise you if you
21	DR. BOOT		21	did that compounding exercise, you'd be
22	A.	Good question. I used to ask my students,	22	very, very happy. And I also promise you,
23	71.	how many firms in the TSE 300 and they'd say	23	you're not going to get it.
24		300 and I'd say no, sorry, 254. And we	24	CHAIRMAN:
25		300 and 1 d say no, sorry, 234. And we	25	CHARIWAIV.
25		D 214	23	D 017
١.		Page 214		Page 216
1		change it from the TSE 300 to the TSE	l	Q. And you're still saying the Fernandez survey
2		Composite precisely because we wouldn't find	2	is accurate with respect to market risk
3		300 companies to put in the TSX index. And	3	premium?
4		then I'd ask them how many firms in the S&P	4	DR. BOOTH:
5		500 and they'd all think that was a trick as	5	A. When I started looking at Fernandez, I
6		well, but I would say no, there's 500. The	6	looked at the historic estimates in Canada
7		problem is that we have seen a hollowing out	7	and then along comes Fernandez and he
8		of the Canadian stock market. How many	8	surveys all these people. So, I can tell
9		firms on the TSX, probably 2500 on the TSX	9	and I think I said this in 2009, I can tell
10		and the Venture. How many to actually	10	you what my opinion is, but I can also, just
11		invest in? A lot of those are really junior	11	list the Fernandez survey where it's got 90
12		mining stocks where they'll highly liquid;	12	responses from Canada and thousands and
13		they're rarely traded and you can buy them,	13	responses from United States.
14		but you can't sell them.	14	CHAIRMAN:
15	CHAIRMA	•	15	Q. I think you said 7000 in 2013.
16	Q.	I guess my point is if you wanted to start	16	DR. BOOTH:
17	Ų.	looking at cost of capital, you can start	17	A. Yeah, I think it's gone down. I think
1			l .	
18	חם חספים	with—the return on the TSE is a good marker.	18	people got tired of filling out his survey.
19	DR. BOOT		19	So, the numbers have actually, as I said,
20	A.	I use the TSX Composite. I use the dividend	20	gone down. It's like everything else, if
21		yield on the TSX Composite as indicative of	21	you get a survey, the first time you do it
22		_	22	you're happy and then every year it becomes
23	CHAIRMA		23	a bit of a chore. So, the number of
24	Q.	And Ektors Utility (phonetic) so you've got	24	responses has gone down, but I don't think
125			25	
25				

April 8, 2016 NL Power GRA 2016 Page 217 Page 219 it can be dismissed. And particularly the way. I'm giving you all of the betas for 1 1 2 way he's asking it now which is, what's your 2 the Canadian and U.S. stocks. I'm giving 3 overall return on the stock market? We can 3 you the historic evidence for the Canadian 4 argue about the risk premium and say, well, equity market. I'm giving you stuff from 4 5 is that over what—risk free rate or 5 AON Hewitt. I'm giving you stuff from Duff & Phelps. I'm giving you stuff from TD 6 whatever. But just asking people who do you 6 7 7 estimate the overall equity market return to Economics. I try to give as much data as 8 be? That's a question that's difficult to, 8 possible to supplement my own work. And the 9 sort of, say well, it's a bias question, 9 amount of data and reports out there now 10 it's a fudge question. And when you look 10 compared to 20 years ago is night and day. across all of the major markets, Canada CHAIRMAN: 11 11 12 actually has 8 percent—Canada and the U.S. 12 O. Um-hm. So, this quantitative easing 13 has the highest expected equity market 13 business, how is that different from 14 14 return counterfeiting? Let's cut to the chase here 15 CHAIRMAN: 15 now. What's the difference between what 16 Q. And, I guess, the same thing applies to the 16 Janet Yellen is doing or Mario Draghi or any concept of beta. There's publically 17 17 of these characters, say, well then, my 18 available data there too, you don't have to 18 favourite is John Law and the Mississippi— 19 do all these elaborate calculations if you 19 you know that one, don't you? 20 20 DR. BOOTH: don't want to. 21 DR. BOOTH: 21 A. Yes. 22 Sure. You can go and look at the Globe and 22 CHAIRMAN: A. 23 Mail and you can—Financial Post is a little 23 0. I mean, what's the difference between— 24 bit more difficult to get the data. And you 24 they're just printing money, aren't they? 25 25 Page 218 Page 220 can go and look at Yahoo and FERC uses Yahoo It's ex-nihilo money they call it. 1 1 2 2 because the estimates are from IBESE. DR. BOOTH: 3 3 Institution of Brokers Estimation Service That's exactly what they're doing. What A. 4 4 for Earnings. But I mean a lot of this they're doing is basically coming in—what 5 5 isn't rocket science. You can go to Yahoo; they were doing was buying 85 million 6 you can go to Google; you can go to Globe 6 dollars of, billion, I forget, billon -7 and Mail; you can go to Financial Post and 7 CHAIRMAN: 8 you can get this post. And I tell my 8 Q. I think I got a figure here that's 225 9 9 students that when I started out in this trillion out there now. I mean, that's not 10 business I had to pay 25 cents a data point 10 right, is it? DR. BOOTH: 11 and they look at me as if I've got two 11 12 hears. Nowadays all of this data is there. 12 A. No, I think that's excessive. The U.S., I'd 13 So, it's not difficult to go in and get this 13 say, 3 ½ to 4 trillion; the UK is probably a 14 data on the betas. It's not difficult to 14 trillion. 15 look at the market risk premium. And as 15 CHAIRMAN: I've said judgment constrained by the facts. 16 16 Q. That's just the FED, I'm talking about all the other stuff that's out there. 17 You, first of all, have to present the data 17 DR. BOOTH: 18 18 to utility regulators which I do. I don't 19 19 present one data; I present you with all the A. We don't worry about the other stuff; that's 20 data for the last 25 years on all of the 20 all basically one person's assets and 21 companies, U.S. and Canada. You can see 21 another person's liability, they nets out.

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whether my estimate, you think, is off the

estimate and, that's been adjusted in some

wall. You don't have to just take one

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I'm not worried about the global amount of

FED is paying for the U.S. government bonds

debt. I'm worried about the fact that the

April 8, 2016 NL Power GRA 2016 Page 221 Page 223 it buys with cash. But the trick to all of 1 Q. So, you wouldn't agree with Peter Schiff, 1 2 that is the people who get the cash are just 2 for instance, who says that we're waiting 3 depositing it at the FED. They're not going 3 for a monetary Pearl Harbour. 4 out and spending it. And that's my monetary 4 DR. BOOTH: 5 policy has been dead for the last five 5 Α. No. These guys are there to sell popular 6 books and you don't sell popular books by 6 years. It's such an extent at the European 7 7 just doing what academics do. You sell Central Bank, all the money has been coming 8 back to the ECB. They're now saying we're 8 popular books by having Armageddon. 9 going to charge you 50 basis points for 9 CHAIRMAN: 10 every dollar you put on deposit with the 10 So, you think it's possible, for instance, 0. ECB. And the Bank of Japan is doing exactly for Janet Yellen to start raising interest 11 11 12 the same thing because they want to get that 12 rates without bringing the system down. 13 cash out into the system. They want people 13 DR. BOOTH: 14 to spend it because at the moment people 14 A. I think the U.S. is going to be extremely 15 aren't spending all this cash, all this 15 careful of increasing interest rates. And 16 money they're creating. We got a bath full 16 we've seen, just in the last month that the 17 of liquidity, but nobody is taking a bath. 17 probability of the four interest rate hikes 18 that were predicted back in December, she's CHAIRMAN: 18 19 Q. I just got some figures here on the European 19 backing off of them because once she's done 20 Central Bank that's kind of interesting. An 20 increasing interest rates, bond values are 21 interest rate increase of less than 2 21 going to go down. 22 percent to as little at 1 ½ percent would 22 CHAIRMAN: 23 under mind the value of bonds and related 23 0. But I guess that's the point, that will have 24 risks at the ECB and in the Euro system to 24 a knock on effect, won't it? 25 25 Page 222 Page 224 the point they would require further capital DR. BOOTH: 1 1 2 injections. And this would lead to a 2 A. Exactly. And it's going to have—it's—I own 3 deflating asset bubble and take down the 3 bank shares because I think interest rates 4 European Central Bank and their wider 4 should go up. Banks are in serious trouble 5 5 European system. Do you agree or disagree because of bond buying because their 6 with that? 6 interest spread is disappeared. And – 7 DR. BOOTH: 7 CHAIRMAN: 8 I disagree with that. There's a lot of 8 0. So, wouldn't you get a run if interest rates A. 9 9 rise on the banks? people out there talking—there's always 10 people saying, prepare for the coming doom. 10 DR. BOOTH: 11 I tend to be optimistic. These books have 11 A. No, if the interest rates increase by banks bene around there for the last 30 years 12 12 because their interest rate spreads will 13 about the coming doom. I've got a very good 13 increase and as long as they're handled in 14 friend of mine who's a certified financial 14 the default risk, the banks will make a lot 15 planner. He's incredibly pessimistic, but 15 more money. It is incredibly difficult for he's been incredibly pessimistic ever since the banks to be profitable in the current 16 16 I met him. And his clients are all 17 17 environment. And I'm talking here not so 18 18 incredibly pessimistic because they're much about the Canadian banks, but the 19 19 heading what they want to hear. And there's European banks, how can they make money when 20 20 people out there who are certified financial you got negative interest rates? It's why 21 planners who are incredibly optimistic and 21 in Europe they want abolish the 500 Euro 22 22 guess what, all their clients are incredibly note because they want to charge negative 23 optimistic. You gravitate -23 interest rates. Well, if I'm charged

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CHAIRMAN:

negative interest rates, I would take the

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1	cash out in 500 Euro notes and I'm going to	1	DR. BOOTH:
2	put them in the safety deposit in my house	2	A. Well, you're going to have to deal with 15,
3	and I'm not going to suffer half a percent	3	20 dollar oil if that happens and you're
4	loss. I'm going to have all these 500 Euro	4	going to have to look at copper and nickel
5	notes. So, the reaction of the regulatory	5	and coking coal prices going down even
6	authorities, let's get rid of the 500 Euro	6	further. But China is real, I wouldn't buy
7	note. Let's force people into the financial	7	Chinese shares because they treat financial
8	system, force them to suffer losses if they	8	statements in a cavalier way –
9	put the money on deposit, force people to	9	CHAIRMAN:
10	spend money. I means that's the desperate	10	Q. They're not reliable. How can they be
11	straits that Europe is into. Basically	11	reliable; they're communists.
12	close all of the avenues and for people to	12	DR. BOOTH:
13	spend money. And you're probably aware that	13	A. Okay, I was being moderate, a cavalier way,
14	Corbyn the UK is talking about quantitative	14	but they basically say well, equity holders
15	,	15	* * * * * * * * * * * * * * * * * * * *
1	easing for people. Instead of having the		will give us money and we'll give them a
16	central bank buying the debt in the capital	16	piece of the paper; that sounds like a
17	market from the government, why don't we	17	pretty good deal. So, when you look at
18	have the Central Bank directly investing in	18	that—but I went to China in 1988 before
19	real projects like infrastructure and	19	China opened up and at that point I got a
20	everything else and just creating the	20	limo picking me up at the airport, I was the
21	dollars to straight away the finance quote	21	only car on the road all the way from the
22	for people, instead of banks. And that's	22	airport into central Beijing, the rest were
23	very similar to what Bernie Sanders has been	23	bicycles. And I went down to Shanghai and
24	saying in the United States. But he's got	24	along the bullet in Shanghai they had
25		25	
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1	to that level that we're actually talking	1	bicycles everywhere. You couldn't cross the
2	about things that we used to say, well, this	2	road on the bullet because of bicycles. I
3	is what Argentia does; this is what Brazil	3	was last in China in 2003, cars everywhere
4	does; this is what irresponsible countries	4	and you still can't cross the road on the
5	do, but we're seeing serious discussion	5	bullet down in Shanghai because they're not
6	about the similar sort of policies.	6	bicycles anymore, they're cars. They got
7	CHAIRMAN:	7	cars all over the place. They didn't learn
8	Q. So, what about a collapse of the—my last	8	a thing. They put flyer—they didn't learn a
9	question—what about a collapse of the	9	thing—they put flyers (phonetic) and dumped
10	Chinese currency? What happens there? I	10	all of these cars right onto the bullet in
11	mean, there's people who say that China is,	11	Shanghai. So, they replicated a lot of the
12	as I said to you earlier, the Red Ponzi,	12	mistakes that western economies made, but
13	it's a Potemkin economy, it's totally false.	13	China is real. As I said, they're adding
14	There's no real—it's just quantitative	14	the electrical capacity of the UK every
15	easing, massive printing of all this money	15	year. The problem is they're on this
16	and there's nothing to back it up. And if	16	conveyor belt of producing more coal,
17	there's—the Shanghai Index is down now 45	17	producing more steel, producing all these
18	percent since last June, what about if the	18	electric plants and somehow they have to get
19	Yong (phonetic) collapses, will that take	19	those resources into consumption. And
20	down the system? If that happens, what	20	they're trying to switch from an export
21	would happen to Canadian interest rates?	21	industrial based model with very, very high
22	How would it hit us here in Newfoundland, if	22	savings rates into pleasing their
23	something like that happened? That's the	23	population. And the growth rate is going
24	question I can't get my little head around?	24	down; there's no question about that. But
25	question i can i get my nuic nead around!	25	down, more a no question about that. Dut
143		43	

April 8, 2016 NL Power GRA 2016 Page 229 Page 231 the most important thing is they're dumping the next five years it's going to be 1 1 2 all of the excess stuff that they've got 2 economic to put solar panels on without need 3 because they're not using it in China 3 subsidies in many areas of Canada and 4 anymore. So, they're dumping all of the 4 particularly North America. And once you're 5 steel in Europe and the UK; they're dumping 5 into a distributed grid, distributed 6 a lot of their exports wherever they can. generation and if the batteries come down, 6 7 7 So, the big question is going to be when we strand all of the transmission network. 8 8 people start to respond to the excess supply CHAIRMAN: 9 that China is dumping on the world, and what 9 Well-Q. 10 the implications are going to be. If they 10 DR. BOOTH: then start no longer producing all of these 11 11 A. I mean, that's not a risk that has been 12 extra coal mines or all these extra steel 12 raised at the current point in time, but – 13 13 factories that they don't need. And then CHAIRMAN: 14 14 that's going to have a knock on impact on Q. I disagree with your assessment of solar and 15 commodities. 15 wind, but I'm not going to debate it here with you, but I'd sure like to have a crack 16 CHAIRMAN: 16 17 Q. And finally, in Europe last year, I read 17 at you. 18 there was 15,000 died because they couldn't 18 DR. BOOTH: 19 19 A. Well, look, my son wants to support solar. 20 DR. BOOTH: 20 CHAIRMAN: 21 21 A. A lot more than that. Q. If I tried that here now, I'd probably be 22 CHAIRMAN: 22 assassinated in the back office, so I think 23 23 0. Was it more than that? we're going to adjourn. Thank you very 24 DR. BOOTH: 24 much. It's always entertaining and 25 25 Page 230 Page 232 15,000 people of what? 1 educational, more important, to listen to 1 A. 2 2 CHAIRMAN: 3 3 0. I'm sorry—getting late—died from the cold, DR. BOOTH: 4 4 lack of electricity, lacking of heating. A A. Thank you. 5 5 CHAIRMAN: serious people emerging in Germany, emerging 6 in—well in most European countries now 6 Q. Thank you. We're adjourned now until Monda 7 people are actually dying because they can't 7 morning at 9:00. 8 8 afford to pay their electricity bills. Upon conclusion at 1:17 p.m. 9 9 They're up to these huge increases and 10 people are eating versus heating. They're 10 riding busses. They're going to malls. 11 11 12 They're trying to stay warm. And there was 12 13 tens of thousands of deaths, that's what I 13 14 read in one of my web pages that I go to. 14 15 Are you familiar with that? 15 16 (1:15p.m.)16 DR. BOOTH: 17 17 18 A. I've got a regular trend who is an investor 18 19 19 banker and he thinks the smartest move 20 Ontario government are doing is selling off 20 21 Hydro 1 because he thinks the distributed 21 22 22 generation is a realistic scenario that 23 23 we're going to get these micro grids that 24 Mr. Coyne talked about and possibly within 24

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CERTIFICATE	
I, Judy Moss, do hereby certify that the	
foregoing is a true and correct transcript of a	
hearing in the matter of a General Rate	
Application by Newfoundland Power Inc. to establish customer electricity rates for 2016 and	
2017 heard on the 8th day of April, 2016 at the	
Public Utilities Commission office, St. John's,	
Newfoundland and Labrador and was transcribed by	
me to the best of my ability by means of a sound	
apparatus.	
Dated at St. John's, NL this	
8th day of April, 2016	
Judy Moss	
Discoveries Unlimited Inc.	

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