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	Pa	ge 1		Page 3
1	(10:55 A.M.)		1	MR. DOHERTY:
2	CHAIRMAN:		2	A. As I understand it, we're doing a regression
3	Q. Well, good morning everybody. I think have w	e	3	over different measurement periods, the first
4	agreed on the schedule? They all know what		4	being a ten-year period ending December 2012
5	the line up is?		5	and then a five-year, then a ten-year ending
6	MS. GLYNN:		6	June 30th, 2012, then a five-year ending that
7	Q. 12:45.		7	same period. In each of those cases, certain
8	CHAIRMAN:		8	values have been excluded within the
9	0. 11 to 12:45 and then we're going to break for		9	measurement period.
10	a half an hour? Is that right? And then	1	0	STAMP, O.C.:
11	we'll go from 1:15 to 2:45. Is that	1	1	Q. And so this is describing a regression
12	acceptable?	1	12	exercise of some sort, these four lines?
13	JOHNSON, O.C.:	1	13	MR. DOHERTY:
14	0. Yes. Mr. Chair.	1	4	A. That's right.
15	STAMP O.C.:	1	15	STAMP. O.C.:
16	0 A 15-minute break there	1	6	O And it's only four regressions? Is that what
17	CHAIRMAN.	1	17	we're seeing?
18	O Okay 15 minutes I mean it's up to you	1	18	MR DOHERTY
10	crowd Don't bother me. So okay	1	19	A Yes this is four regressions and the four
$ _{20}^{1}$	MS GI VNN	2	20	regressions have then resulted with an
$\begin{bmatrix} 20\\ 21 \end{bmatrix}$	O Our 15 minutes usually turn into a hit longer		20	estimate of trend
$\begin{bmatrix} 2 \\ 2 \\ 2 \end{bmatrix}$	so we'll strive for the 15		-1))	STAMP OC:
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$	CHAIRMAN.)3	O Okay So why would the exercise limit itself
$\begin{bmatrix} 23\\ 24 \end{bmatrix}$	O Ves okay. So at the very latest then 1:15		23	to four regressions?
$\begin{vmatrix} 24 \\ 25 \end{vmatrix}$	Q. res, okay. So at the very fatest then, 1.13.		24)5	MP DOHERTY.
				Dere 4
.		ge 2	1	Page 4
	Q. Absolutely, yes.		1	A. I doll t know.
	CHAIRMAN:		2	O When EA does regressions, when and how do you
	Q. If everybody is ready, sooner. And I believe,		3	determine that a data point is an outlier?
	So you're or		4	MD DOLLEDTY.
	S0, you it on.	7	5	A We would do a regression analyze the
	MR. SHAWN DONEKTT, RESUMES STAND, EXAMINATION-IN-CHIEF B		7	residuals and then determine whether or not we
<u>'</u>	STAMP, Q.C. (CONT D)		/ 0	felt any of the data points could potentially
	STAMP, Q.C.:		0	he an outlier. We would test to see the
10	Q. Thank you, Mr. Channan. Fes, Mr. Channan,	1	9	results then without that data point in If
	back to where we left off vesterday, which was	1		the exclusion of that data point significantly
$\begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$	CAOW Land the response to it, which is the	1	11	or materially changed the regression answer
$ _{12}^{12}$	Oliver Wymen report Lauss associated with	1	12	in this case looking for a trend then we
13	barehmerk and what we were looking at at that	1	13	would doom that outlier to be influential and
14	time must be too of a set in that the summer	1	14	would deel that outlier to be initial and
15	time was the top of page six in that document.		15	we would include it as an additional model
10	WILLIAMS, Q.C.:	1		
1/	Q. I think it's page seven.	1	l /	STAMP, Q.C.: O And so how does that approach that you just
10	STAMP, Q.C.:	1		described for facility compare with the
19	Q. in the primed volume, it's six. Sorry. Mr.		17	approach we're seeing here in the four lines
$ _{21}^{20}$	Donerty, just want to come back to this now.		2U 51	approach we re seeing here in the four lines
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	So what s your understanding of these four top		21 22	mat are on top of this page?
$ _{22}^{22}$	antine what their lains have for		42 22	MIK. DUHEKII:
23	outline what their doing nere from certain	2	23 NA	A. Dastu on uns, it appears that the exclusion
$ ^{24}_{27}$	periods and certain exclusions and giving the		24 25	or the determination of what constitutes an
120	percentages? what is that?	12	20	outher occurs before the data is actually

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1	reviewed, before a fit is determined,	U	1	und	ertaken. We can certainly you can	
2	including the values, and as I look through	l	2	cert	ainly test the result of that in simple	
3	the complete report, because this same		3	regi	ression.	
4	approach seems to be replicated, my assumption	ption	4 8	STAMP, Q).C.:	
5	going in is that in each case there are four		5	Q. Hov	w would you describe the approach?	
6	regressions completed and the time period	is	6 N	MR. DOH	ERTY:	
7	predetermined, either being ten years or five	e	7	A. I we	ould describe it as I see it, as very	
8	years, although it shifts in the two sets, and		8	mec	chanical. As I mentioned yesterday, it's	
9	that the outliers or the data points that are		9	very	y efficient because it is mechanical. You	
10	going to be excluded within the data you ha	ve	10	hav	e the data. You decide before you do	
11	available in that ten or five-year period is		11	any	thing with it what the highs and lows	
12	predetermined and excluded before the anal	ysis	12	you	're removing. So you've identified the	
13	is completed.		13	data	a points you're including. To do the	
14	STAMP, Q.C.:		14	regi	ression, it's a calculation. Like I said	
15	Q. So does how do we know they're outliers	if	15	yest	terday, you can do it in Excel. There's	
16	you exclude them before you do the analysi	s?	16	regi	ression functions in Excel. You can do it	
17	MR. DOHERTY:		17	dire	ctly by just doing it from the data	
18	A. I don't. I'd be interested to understand how	7	18	itse	If. It's available in any statistical	
19	that works.		19	text	book on how to do that.	
20	STAMP, Q.C.:		20 8	STAMP, Ç	Q.C.:	
21	Q. Well, doesn't I mean, if you exclude two	on	21	Q. Wh	at risk might you see be evident in that	
22	the upper side and two on the lower side, I		22	app	roach, that mechanical approach?	
23	mean, in every period won't there be two lil	ke	23 N	MR. DOH	ERTY:	
24	that?		24	A. We	ll, you're excluding data points. So, I	
25	MR. DOHERTY:		25	thin	k any time you start off taking out data	
		Page 6			Page 8	
1	A. Yes, in any data set, unless all the values		1	poir	nts again as I mentioned yesterday with	
2	are equal, there will be a high and there will	l	2	sam	ple sizes, if you reduce your sample size,	
3	be a low. That's the nature of numbers.		3	it m	akes it more difficult to get comfort that	
4	STAMP, Q.C.:		4	you	r estimate is as good as it could be if you	
5	Q. Does having a high or having a low or having	ng a	5	incl	uded all the data. There are tests that	
6	number of highs, a number of lows, make the	nose	6	you	can do to determine whether or not it	
7	outliers in your opinion?		7	mig	ht be better if you excluded some data. I	
8	MR. DOHERTY:		8	don	't think you need to do that before you	
9	A. No. Any data set, again, if the numbers are	e	9	star	t the analysis.	
10	not all the same, then every data set has a		10 \$	STAMP, Q).C.:	
11	high and has a low. That doesn't mean it's	а	11	Q. But	if you have four formulas or four	
12	statistical outlier.		12	met	hodologies that you adopt to do this, the	
13	STAMP, Q.C.:		13	ten	and ten and five and a five, how do you	
14	Q. Okay.		14	reco	ognize whether there's other data that	
15	MR. DOHERTY:		15	mig	ht be influential?	
16	A. As far as I'm concerned.		16 N	MR. DOH	ERTY:	
17	STAMP, Q.C.:		17	A. You	a don't. Again, the periods seem to be	
18	Q. But that's what's being done here? They's	re	18	prec	determined, so, a ten-year period and a	
19	being treated as statistical outliers?		19	five	-year period. That may overlap. Again, if	
20	MR. DOHERTY:		20	you	look at the data, you're analysing the	
21	A. Not the data point itself being a high or a		21	data	a and data says during that period there	
22	low, but the change the exclusion is		22	may	be two different trends, one that happens	
23	dependent on the change and again, I don	't	23	here	e and then another one that happens in a	
24	know how you would determine that before	e but	24	diff	erent spot, doing this approach doesn't	
25	this is an approach that appears to be		25	get	you to be able to see if they've changed.	

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1	I'm not sure for me, trying to determine if	0	1	A.	I am replicating the regression that was	
2	there has been a change over a period of time	e	2		completed.	
3	or if there's been multiple changes in trends		3	STAN	лР, Q.С.:	
4	over a period of time, I don't see this as		4	Q.	All right. So, I don't know if we need to	
5	identifying those changes.		5		enter those specifically, but I'd ask that	
6	STAMP, Q.C.:		6		they be entered.	
7	Q. Okay. Now did you a few days ago prepare	e a	7	MS. C	GLYNN:	
8	series of, I guess, analysis of the Oliver		8	Q.	They've been distributed and they are now	
9	Wyman approach in this area?		9		officially on record.	
10	MR. DOHERTY:		10	STAN	ИР, Q.C.:	
11	A. I would describe it more as I replicated this.		11	Q.	Okay. So they're treated as exhibits, as I	
12	STAMP, Q.C.:		12		understand it. All right. If you could turn	
13	Q. Okay.		13		then, Mr. Doherty, to SD No. 1, the first of	
14	MR. DOHERTY:		14		those group of four and tell us what you've	
15	A. Again, regression is calculating values. If I		15		done here?	
16	have the data and I know which ones were	e	16	(11:1	5 A.M.)	
17	excluded, I know the data that was put into		17	MR. I	DOHERTY:	
18	the calculation, so I can replicate it. I can		18	A.	Yes. So we went through the general model	
19	determine the R squared because it's a		19		yesterday, so I'm not going to describe all	
20	formula. I can determine the adjusted R		20		the stuff that's embedded in our approach to	
21	squared because it's a formula. I can		21		this. I just want to highlight a couple of	
22	determine the P values and the T statistics		22		things. So on the right, there's a series of	
23	because they're all formulas. So given the		23		columns. The heading is loss cost values.	
24	data at the back of the report and assuming		24		The first one says from valuation. That's a	
25	that I typed in the values correctly, I can		25		standard title that we have in our model, but	
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1	replicate what they have. The results that I		1		this is actually, you know, me typing in the	
2	got out when I took the ten-year period and I		2		values that I found in the back of the Oliver	
3	excluded the two highs and lows based or	ı	3		Wyman report that are the loss cost as per the	
4	change, I got the minus 1.7 trend.		4		Oliver Wyman report. The second column is the	
5	STAMP, Q.C.:		5		fitted model. So in this particular case,	
6	Q. Okay. So can I just ask you to turn then I		6		I've used the latest ten years only. I've	
7	think, Mr. Chairman, Commissioners, we h	ave	7		excluded where the change, the two highest	
8	provided four documents. I think they've bee	en	8		changes and the two lowest changes, as I	
9	identified as SD-1, SD-2, SD-3 and SD-4. So		9		understand the description in the report.	
10	they're I think everybody has those.		10	STAN	ΛP, Q.C.:	
11	MS. GLYNN:		11	Q.	Is that the first page with the Ys below, at	
12	Q. They're officially on the record.		12		or below H or '03 H1?	
13	STAMP, Q.C.:		13	MR. I	DOHERTY:	
14	Q. And have you got those available to you?		14	A.	Yeah. So the first yeah, that first column	
15	MR. DOHERTY:		15		excludes exclude data point, yes or no.	
16	A. I do, yes.		16		The first five years of data like ours is a	
17	STAMP, Q.C.:		17		20-year model. The first five years are not	
18	Q. And did you prepare those documents?		18		provided in the report, so they re	
19	MR. DOHERTY:		19		automatically excluded and that's why there's	
20	A. I did, yes.		20		zeros in there from it's from valuation but	
$ ^{21}_{22}$	STAMP, Q.C.:		21		it's really from the Oliver wyman report. The	
$ _{22}^{22}$	Q. Okay. And these are your now do you		22		in the most recent ten wears and then have d	
$\begin{vmatrix} 23 \\ 24 \end{vmatrix}$	are you replicating?	5,	25		that we identify whether they're evaluated or	
$ _{2^{2}}^{24}$	MP DOHEDTY:		24		not based on the change, and if you just slide	
143	WIN, DUHENTT.		25		not based on the change, and it you just shue	

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1 over a little bit to the right, you can see	1	loss cost. Now the selected model loss cost.
2 I've calculated the percentage change. So	, 2	the trend is minus one and a half. You only -
3 for the one period, it's not the change from	3	- in this instance, we're only looking at a
4 the value immediately before it, but one	4	relationship between loss cost and time and so
5 before that. So it's the change from H1 to I	H1 5	I only need to parameters to describe a line.
6 or H2 to H2. And I've highlighted in that	6	One describes the slope of the line. The
7 column where within the ten-year period t	he 7	other one describes where it hits the axis
8 highest two changes and the lowest two	b 8	when X is zero. And so, under the
9 changes. So maybe if you scroll up a little	9	coefficient, you'll see one thing, it's
10 bit, you'll see minus 40 is highlighted.	10	intercept is 40.869 and then all years is the
11 Minus 46 is highlighted. Plus 65 is	11	only other thing you've got. Those are the
highlighted and plus 57 is highlighted. So	12	those two numbers describe the red line that
based on those calculations, that's what I	13	you see under fitted. Under the column that
determine, as I understand the methodolo	gy 14	says selected coefficient, the two values that
employed, would be the data points that wo	uld 15	you see there describe the red line that's in
16 be excluded in that data set.	16	the other graph where the slope of the line is
17 STAMP, Q.C.:	17	minus 1.5 and I had to calculate the intercept
18 Q. And did you run a regression then on this?	18	because I got the slope, but I don't know
19 MR. DOHERTY:	19	where it's going to meet up with the line, so
20 A. Yes, I did.	20	I had to figure out some way to sit it over
21 STAMP, Q.C.:	21	top of the data, I guess, for lack of a better
22 Q. Is that the way to describe it?	22	word. I guess there's a few different ways
23 MR. DOHERTY:	23	you could do that. We look at when we're
24 A. Yes.	24	trying to set data on top of other data, we
25 STAMP, Q.C.:	25	look at two different approaches. Generally
	Page 14	Page 16
1 O. Okay. And what did you do?	1	option one you'll see it here. We have it
2 MR. DOHERTY:	2	highlighted in that red box. Option one is
A. So if we move to the page two in this exhib	it. 3	that over the period that you're reviewing,
4 So the first thing off to the right, it's	4	you set the loss cost averages the same. So
5 highlighted in vellow. It's called fitted	5	we would use a goal seek to have the selected
6 value annual pass and future. You'll see tha	it 6	model come up with in this case, the
7 that's the minus 1.7. I believe that's the	7	overall average over that period is 318.92 and
8 same trend that Oliver Wyman determined	. In 8	so we would do a goal seek to make the
9 that same block, you'll see previous selecte	d 9	selected model have that same average loss
10 is minus two and a half. That was Oliver	10	cost, 318.92, and so that's the result of the
11 Wyman's previous selection. The selected	ed 11	exercise. You can see the difference is zero.
12 annual I put in at minus one and a half	12	And I did that by adjusting the intercept
because that's the end result. They've	13	coefficient and it ended up being 36.105. And
determined that the trend is minus one and	a 14	you'll see that each time I changed the
half, so I've included that, and I did want to	15	period, I have to change how that sits on. So
include that just so you could see that with	16	while the slope is always going to be minus
17 this methodology, you can in fact select	17	one and a half percent, the value is going to
18 coefficients that are different than the	18	change because I have to I'm trying to fit
19 fitted coefficients, which is what I've done	19	it over top of the same period, so I'm doing a
20 here, and I will describe how I fit that minu	s 20	like to like. But in this case, so I've got
one and a half over top of the data because	as 21	results. I've got two charts, two fitted
22 you'll if we scroll down a little bit,	22	value sets, one that's fitted through the
you'll see the two charts. One has the actua	1 23	regression; one that's fitted through the
data and the fitted model data and the other	r 24	final selection of a trend of minus one and a
25 one has the actual data and the selected mod	del 25	half percent.

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1	STAMP, Q.C.:	0	1	1.7 percent just due to the randomness of the
2	Q. And what did you what does this regression	n	2	data and based on our criteria, we would then
3	analysis then or what does the data show in	1	3	say there's not enough information here for us
4	terms of these conventional, I guess, numbers	5	4	to reject the hypothesis that the rend is in
5	that you look at, the R squared, the adjusted		5	fact zero, not minus 1.8 percent. We would
6	R squared, P values and so on that you've		6	also not stop there. We would also go down
7	spent time talking about already?		7	and look at the additional charts down below
8	MR. DOHERTY:		8	and maybe if you can just scroll down, there's
9	A. Yeah, so from this, again the coefficient		9	other residual tests. There's a residual plot
10	determination of the fit, the intercept and		10	there. It's going to be a challenge to look
11	that all years' coefficient, that's a		11	at this one because we've excluded the earlier
12	mechanical exercise. That just gets spat out.		12	data. They're all showing as significant
13	So, we want to look at whether or not we wou	ıld	13	variances from the red line. All those dots
14	accept this as a model. That is that minus		14	describe the distance of the individual actual
15	1.7 percent trend seems to describe the		15	point from the red line and you know, we
16	relationship between loss cost and trend or		16	didn't try in this case, because we're only
17	loss cost and time. And so if we just slide		17	focused on the ten-year period, we weren't
18	up a little bit, there we go, we've got a		18	trying to fit all of the data. So, the
19	number of the regression statistics and so,		19	earlier part we were seeing two data points
20	under the block that's called fitted trend		20	that are significantly higher than the line,
21	structure regression statistics, the R squared		21	we weren't even trying to fit it. So I would
22	is, in this case, 11.75 percent. So what it's		22	ignore those. Now this is after we've already
23	saying is that the regression that I've		23	excluded data, so it's kind of tough to
24	determined describes about 12 percent of the	;	24	determine whether or not there would have been
25	variance in the loss cost over the period of		25	outliers had you not removed the outliers to
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1	the data that I chose. Not the period that I		1	begin with. In this particular case, two of
2	chose, but the data I chose, because I didn't		2	the outliers, the two high outliers, as you
3	include all the data in that period. When I		3	might imagine, because we're dealing with data
4	adjust for the number of parameters, and		4	that's after 2003-1, are those two points, you
5	there's only one parameter, when I adjust for		5	know, right above 2007 I forget if it's
6	the parameter in here, the adjusted R squared		6	2007, H1 or H2, and then 2011, 2011 H2. It's
7	is five percent. Right below that, you'll see		7	those two peaks that you see out there. And
8	runs test results. The runs test on the		8	if we didn't have the exclusion already, the
9	residuals here indicates that the residuals		9	analysis might indicate that those are
10	are not random. So we would look at that and	d	10	candidates for outliers. The one low is
11	say, okay, I've got a poor original measure of	-	11	one of the two lows is the 2005 and it's that
12	fit. The R squared tells us how much is being	g	12	one that kind of drops down, and so, you know,
13	described. It's not telling us whether or not		13	when you're looking at it, you might think
14	the coefficients are unbiased. It's not		14	yeah, that seems to be a low. The other low
15	telling us whether or not the predictions or		15	is 2003 H1 and it's above the line and the
16	the projected values are unbiased. We have to)	16	reason it's excluded is because if you see
17	look at the residuals for that. So our first		17	that really high peak, that's a 2002 H1, it's
18	residual tests: are the residual runs random?		18	the loss cost is 700, and the next data point
19	No, they're not. Then we would look at the F		19	for H1 is 2002 H1. It's a significant drop
20	value and again, in this case, for all years		20	from that very high level. I don't think it
21	of that trend, it's saying that the P value is		21	necessarily is an outlier in the onset. It
22	16 and a half percent, so that's effectively		22	certainly is significantly below that high
23	saying if the trend really is zero, then		23	point of 700, but I'm not sure I would
24	there's a 16 and a half percent change you'd		24	identify it as an outlier and I do find it,
25	get a trend estimate of the magnitude of minu	IS	25	you know, a bit peculiar that you drop a

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1	number because it's a low and yet it's sitting	C	1	1 location or the slope of the line?		
2	2 above your fitted line. But again, I mean, I		2	2 MR. DOHERTY:		
3	3 would certainly have started without any		3	3 A. No, because we only used ten the most		
4	4 outliers and then done my outlier analysis at		4	4 recent ten-year data points.		
5	5 that point in time. The other part is down		5	5 STAMP, Q.C.:		
6	5 below, you can see at the very bottom there's	s	6	6 Q. So you can actually hold your hand over part		
7	a loss cost QQ plot. Ideally, your residuals		7	7 of that graph and ignore it because it's not		
8	3 when you standardize them like this would al	11	8	8 part of the analysis or the regression that		
9	be on the line. There's a little bit of curvy		9	9 Oliver Wyman did?		
10) thing there. That's reflective of the		10	0 MR. DOHERTY:		
11	residual runs not really being random and the	: ا	11	1 A. Correct.		
12	2 problem with the randomness in the residual	.S	12	2 STAMP, Q.C.:		
13	themselves. So, probably at this point we		13	3 Q. Same with the right-hand graph?		
14	would reject this as a model.		14	4 MR. DOHERTY:		
15	5 STAMP, Q.C.:	_	15	5 A. Yeah, the right-hand graph, I mean, the right-		
16	Q. Mr. Doherty, in the two graphs, the actual an	d	16	6 hand one is just a result. It's just applying		
17	fitted model loss cost graphs and the actual		17	7 minus one and a half. So ignore it or not		
18	and selected model loss cost graphs, it's		18	8 ignore it. I don't I wouldn't say that the		
19	showing blue, the blue irregular line and a		19	9 minus one and a half came from the ten-year		
20) red, I guess, straight line and it's going		20	0 period, I mean it came from a bunch of		
$ ^{21}$	I mean, that blue goes back and the red goes		21	different ones. So I would I m not sure II		
$ ^{22}$	2 back to like 1995, so in this regression		22	2 I could make the same statement, I know with		
25	approach that you replicated from Onver		23	3 the fitted one, the data that was used. with		
$ ^{24}_{25}$	Wyman's report, is that blue data benind		24	4 the minus one and a nair, 1 m not sure you can 5 what data was used to some up with that		
25	Whatever it was, is it 2003-02 that you re		25	5 Say what data was used to come up with that.	4	
	restanting from hom?	age 22		rage 2	4	
	starting from here :			1 STAMP, U.C.:		
	2 MR. DUHERTY:			2 Q. OKay. But in the first graph, if I cover over		
	A. Yean, I in starting from 2005 ni.		3	3 all of the lines earlier than 2005 fit -		
	+ STAMP, Q.C.: = 0.2002 L1 obsy		4	4 MK. DOHEKTT:		
) Q. 2003 III, OKAY. 4 MD DOHEDTV.		6	5 A. UII-IIII.		
) MR. DOHENTT. 7 A Veah		7	0 STAMF, Q.C 7 0 - then I'm looking at really what is the		
	$\mathbf{A} = \mathbf{C}$		8	 Q utering in rooking at really what is the location and slope of a red line intended to 		
	\circ So when I look at that graph I see loads of		9	 fit that hlue data? 		
$ _{10}$	data I guess represented by the blue line, the		10	0 MR DOHERTY		
$ _{11}^{11}$	blue lines as they move up and down in this	.	11	1 A Yes, excluding certain data points.		
12	2 graph.		12	2. STAMP. O.C.:		
13	3 MR. DOHERTY:		13	3 0. Excluding certain data points.		
14	4 A. Yeah.		14	4 MR. DOHERTY:		
15	5 STAMP, Q.C.:		15	5 A. Three of which are above the line.		
16	5 Q. So why is that there?		16	6 STAMP, Q.C.:		
17	7 MR. DOHERTY:		17	7 Q. Now I'm going to ask Ms. Glynn if we had a		
18	A. Well, the data is available, so we are		18	8 sheet come from your office, summary		
19	provided, in this case in the Oliver Wyman	.	19	9 statistics comparison from Oliver Wyman. Is		
20	report, there's 15 years of data. So you can		20	0 that entered as well?		
21	go back to I guess 1998-1. I think that's		21	1 MS. GLYNN:		
22	2 where it goes back to.		22	2 Q. That hasn't been entered yet.		
23	3 STAMP, Q.C.:		23	3 STAMP, Q.C.:		
24	4 Q. But did this data that's behind 2003 H1,		24	4 Q. Okay. Did you see any statistical sort of		
25	5 earlier than that, have any influence on the		25	5 observations from Oliver Wyman after you did		

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1 S1 , SD1, SD2, SD3, SD4?	1	A. It may be. I would want to see a number of
2 MR. DOHERTY:	2	different trends. If I'm only going to look
3 A. Yes.	3	at 15 years, the first thing I want to do is
4 STAMP, Q.C.:	4	look at all 15 years and have a look at it
5 Q. And did they did that analysis or whateve	r 5	without any outliers and then I will start
6 it was show some of the R2, adjusted R2 an	d so 6	doing different periods. I may end up with
7 on values?	7	two periods. The first five years has one
8 MR. DOHERTY:	8	trend and then the next ten years has a trend,
9 A. Yes.	9	which presumably the implication here is that
10 STAMP, Q.C.:	10	there are two different trends. The first
11 Q. And did those values that were produced 1	oy 11	five years which we didn't bother to model is
12 them match the ones that you replicated?	12	different from the second ten which we did try
13 MR. DOHERTY:	13	to model but in this case, it's saying the
14 A. Yeah, we might be off on the fourth decim	al 14	second period, while it does say minus 1.8
15 place, but yeah, they matched.	15	when I do these data exclusions, but you would
16 STAMP, Q.C.:	16	get that result 16 and a half percent of the
17 Q. So come back to I guess the essential	17	time, just based on the randomness of the data
18 question. In your opinion, how do you	18	itself. So at that point, the model, to me
19 appropriately select or determine that period	l 19	the regression is saying you can't comfortably
20 for regression? Because we have four perio	ds 20	say that the coefficient is not zero. That
21 selected here in that at the top of the	21	is, there is no relationship between loss cost
22 page and the report we were looking at a	22	and time in that latter ten-year period after
23 moment ago, have those four periods selected	ed, 23	you've done this exclusion. I don't know what
24 but for you, I'm asking how do you	24	the result would be if you didn't do those
25 appropriately select a period?	25	exclusions because I didn't do that. I was
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1 (11:30 A.M.)	1	trying to replicate what they did. But on my
2 MR. DOHERTY:	2	assessment, based on what is here, this
3 A. Well, if I'm given 15 data points, the first	3	particular model, at this point I would be
4 thing I do is I do a regression of all 15.	4	putting the outliers back in, but if I leave
5 I'm not going to predetermine what the data	is 5	this in the way it is, I would reject the
6 going to tell me. I will start with use	6	model. I'd say this is not telling me that
7 everything. Let me take a look at it and the	n 7	there is a relationship between loss cost and
8 I will start trying different periods to see	8	time.
9 because I'm looking for: one, is there an	9	STAMP, Q.C.:
10 overall trend or have trends changed over tim	me 10	Q. But how does it compare? You did do
11 or is there no relationship between loss cost	11	regression and you did use periods.
12 and time. There is no trend, you're better	12	MR. DOHERTY:
13 off using an average. There's no relationship	p 13	A. Yes.
14 between the two of them and I can't I don	i't 14	STAMP, Q.C.:
15 think I can do that unless I start with all of	15	Q. Did they match these periods?
16 the data and then start letting the data	16	MR. DOHERTY:
17 direct me into where a best fit model migh	t 17	A. No.
18 be.	18	STAMP, Q.C.:
19 STAMP, Q.C.:	19	Q. And so why didn't you adopt a period like this
20 Q. So in your opinion, Mr. Doherty, is the period	od 20	or find this period acceptable?
21 selected which is replicated in SD No. 1, the	21	MR. DOHERTY:
22 period selected by Oliver Wyman, is that a	n 22	A. When we did our analysis, we determined that
appropriate period for regression to drive th	e 23	there was a change in the trend starting at
trend that you're going to rely upon?	24	2004 H2 and so we split a 20-year period into
25 MR. DOHERTY:	25	two different periods. We had a 12-year

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1	period to start with and then an 8-year period	1	different trends under both of those, both
2	as a second one and as I mentioned yesterday,	2	frequency and severity.
3	if we were really interested in really	3 STA	AMP. O.C.:
4	understanding the first 12 years, we might	4 (D. Now did you do the similar analysis then in SD
5	have done some more analysis on that to see if	5	No. 2, 3 and 4 for the other three periods
6	there were in fact two trend periods because	6	that Oliver Wyman had indicated?
7	when I look at it. I think there might be two	7 MR	. DOHERTY:
8	trend periods in that first 12-year period.	8 4	A. Absolutely.
9	but because we knew it wasn't going to	9 STA	AMP, O.C.:
10	influence our indication focused on the most	10 0	D. And can you just walk us through that fairly
11	recent five years, it wasn't a good efficient	11	quickly I guess?
12	use of our time.	12 MR	. DOHERTY:
13	STAMP, Q.C.:	13 A	A. I think those ones will be quickly.
14	Q. So when you did your regression, did you	14 STA	AMP, Q.C.:
15	decide what the periods would be before you	15 (Q. Yeah.
16	did it or did you do the regression and then	16 MR	. DOHERTY:
17	begin to try and figure out what the	17 A	A. The second one will be much quicker. Now you
18	regression revealed for you?	18	look at the same period but it's only the most
19	MR. DOHERTY:	19	recent five years.
20	A. No, we certainly did that. We started with	20 STA	AMP, Q.C.:
21	the five or six standard ones that I mentioned	21 0	Q. This is SD No. 2?
22	yesterday and the key one is we start with all	22 MR	. DOHERTY:
23	the data. We had all data with seasonality	23 A	A. This is SD No. 2. And we slide down, so
24	and then we did the most recent ten-year	24	you'll see at the very bottom just slide
25	period. Then we had the reform, which again	25	down a little bit more here. We're only
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1	is a standard one for us. We did the	1	including eight data points. We draw a line
2	regulatory one and then the analysts would	2	where the actuals end and the projection
3	have tried a number of different ones and I	3	period starts. So 2013 H1, kind of beyond
4	can't recall off the top of my head because it	4	that, it's all projection period. So you can
5	varies by coverage. It may be that, you know,	5	see we've only got eight data points because
6	you get one that really looks good and you	6	we had to exclude we took we started off
7	kind of stop because you got a great fit. All	7	with ten, but we excluded two, so we're down
8	of your statistics are solid, your regression	8	to eight data points. So if we can scroll
9	analysis looks really good. At that point,	9	down to the next page? So in this particular
10	you kind of say, "I think I'm done with this	10	case, go through the statistics again. So the
11	analysis. I'm not going to go any further."	11	R squared is, I guess, .002. That's some very
12	But I can guarantee you that for both	12	low number. Adjusted R squared is negative.
13	frequency and severity, we didn't just rely on	13	Adjusted R squared being negative is a
14	the standard ones that we did, although where	14	challenging thing. It just means that you got
15	we ended up in ours was the auto reform piece,	15	a really, really, really bad model. In this
16	you know, the split between pre and post 2004.	16	particular case, the all years P value is 100
17	And again, as I mentioned yesterday, I don't	17	percent and that's telling us that if in fact
18	know if it's because of the reform. All I	18	the underlying trend really is zero percent,
19	know 1s that the data is telling us it changed	19	there's a hundred percent chance that you
20	at that point in time. We had a trend that	20	would get a trend like this, and it's not too
21	was going up for frequency and then it was	21	tar from zero to begin with, but you get a
22	going down. For severity, we had a trend that	22	trend of this size a hundred percent of the
23	was going up and then it was going up steeper	23	time just based on the randomness of the data.
$ ^{24}_{27}$	after that period and the statistics support	24	So nere, you're just you're coming up with
25	that there were two different periods, two	25	a coefficient that's strictly based on

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1	randomness.	C	1	year period, but we've moved back kind of six	
2	STAMP, Q.C.:		2	months, so we are excluding 2012 H2, but we're	
3	Q. And so if I look at the first graph on the		3	including as a potential period 2007 make	
4	second page, the actual fitted model loss		4	sure I pull yeah, sorry, 2002 H2. But 2002	
5	cost, again we have the blue lines that go		5	H2 gets excluded as being an outlier because	
6	back to at least '97, I guess. I don't know		6	it's a significant drop from you know, if	
7	if it's a bit before that. But the red line		7	you look at the loss cost chart, there is	
8	goes back all the way to there's blue and		8	in that older period, there are two very high	
9	red lines back in '93. But are we looking		9	values, 2001 H2 and 2002 H2. 2001 H2 is over	
10	here in reality at 2008 H1, so you could put		10	600 and the 2002 H1 was over 700, and so when	
11	your hand on the graph and cover up the space	ce	11	you look at 2002 H2, it's coming down from	
12	and lines and information behind that's the	;	12	that high level 2009, so it's dropping by 50	
13	only place that you see is that small bit of		13	percent. In fact, 2003 H1 is dropping by 40	
14	graph work, the blue and the red from 2008 c	on?	14	percent, but because and we excluded the	
15	MR. DOHERTY:		15	2003 H1 last time because it was a high value,	
16	A. That's correct. And, you know, if you did		16	but this time it gets trumped by that latter	
17	that, you covered it all up and you were		17	one. So, again we're dropping those ones out.	
18	looking at it, the one high that was excluded		18	We're dropping those data points out, as I	
19	is that high point. The low is very difficult		19	understand it, before we actually do the	
20	to pick up. I believe it's 2008 H2. In fact,		20	analysis.	
21	it's sitting right on the red line. So again,		21 ST	AMP, Q.C.:	
22	maybe that's because if you included that one	e,	22	Q. And the periods that is selected here in this	
23	it would be far away from the red line. I'd		23	ten-year period here, this is almost a perfect	
24	have trouble believing that, I guess, at the		24	match for the ten-year period in SD No. 1, is	
25	onset, but we've removed as an outlier a data	L	25	it not, except that you have, in the case of	
	Р	age 34		Page 36	
1	point that after you remove it is sitting	U	1	the top data point, included '02 H2, which	
2	right on the fitted line. And you will see on		2	wasn't included in SD-1 and you've excluded	
3	the selected side, the loss cost, I had to		3	2012 H2 which was included in the first one?	
4	adjust it again because now I'm trying to		4 M	R. DOHERTY:	
5	match an average over that shorter period.		5	A. Yeah, and it's interesting because in fact	
6	The average loss cost over that shorter period	1	6	when you deal with the exclusions, 2003 H1,	
7	is \$311.69, so the intercept is a little bit		7	while it was in the period, it was excluded in	
8	different than my original one, but I'm just		8	the first one. Now it's included because 2002	
9	moving that slope line up and down to fit it		9	H2 is actually a deeper drop off, so now that	
10	over top of the data that I'm using in my fit.		10	one is excluded. So you bring in a different	
11	Now in this case, the residual runs aren't		11	data point than you might think at the onset.	
12	random. I got a very, very, very low R		12 ST	AMP, Q.C.:	
13	squared. It's basically saying the model		13	Q. So the outlier that was excluded in the first	
14	that I've selected is telling me nothing about		14	instance is now included?	
15	the data. The P value is telling me there's		15 MI	R. DOHERTY:	
16	no relationship between loss cost and trend		16	A. It's now included. So we do the fits on this	
17	over that period. I would reject this model.		17	and the R squared is 36 percent, so we're	
18	STAMP, Q.C.:		18	describing, in this particular case, over that	
19	Q. And SD No. 3?		19	period with those data exclusions, we're able	
20	MR. DOHERTY:		20	to explain 36 percent of the change in loss	
21	A. SD No. 3 is interesting, absolutely.		21	cost over that period. The adjusted R squared	
22	STAMP, Q.C.:		22	is 32 percent. Both, you know, those are not	
23	Q. All right.		23	bad values. Residual runs aren't random.	
24	MR. DOHERTY:		24 ST	AMP, Q.C.:	
25	A. So here we've moved back it's still a ten-		25	Q. How important is that?	

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1	MR. DOHERTY:	1 MR	. DOHERTY:
2	A. You know, it's one of the considerations. I	2	A. No, because you're not looking for two
3	prefer to see residual runs random, but I'm	3	different periods. You're assuming presumably
4	not going to reject them all if that's the	4	there's only one trend. I'm just trying to
5	only problem that I have with it. The P value	5	determine what that trend is. Again, if you
6	here is strong. It's saying that if in fact	6	think there's only one trend, then why not
7	the trend is really zero, there's a 0.2	7	look at all 30 data points you have available
8	percent change that you get a trend estimate	8	to you instead of limiting yourself to 20, of
9	like this, the minus 3.6 percent or minus	9	which you eliminate another four, so now
10	yeah, minus 3.6 percent trend. So, from that	10	you're down to 16. I'm basing my estimate on
11	view, we certainly wouldn't reject on this.	11	16 data points when I have 30. I don't
12	And you know, looking at the QQ plot, I'm not	12	understand the rationale for that unless I
13	too I guess you have to go down for that	13	think that there's a change in which case
14	one. Sorry, I'm talking I'm looking at	14	determine what the change is and test whether
15	stuff on my screen. Yeah, so the bottom QQ	15	or not there has been a change.
16	plot, that one looks a little bit wonky to me,	16 ST/	AMP, Q.C.:
17	but I probably would overlook that one as	17	Q. Okay. SD No. 4?
18	well. Like if out of the first three,	18 MR	. DOHERTY:
19	certainly I don't like the first two. This	19	A. So this is another five-year period. I think
20	one I'm interested in. Again, you know, I've	20	I mentioned yesterday, conceptually when I
21	got outliers that I rejected before I actually	21	first heard that or you know, it dawned on me
22	did the data. At least this time the two lows	22	that the initial outlier is determined based
23	are actually below the fitted line. The two	23	on percentage change, the first thing I
24	highs are above the fitted line. I'm not sure	24	thought of was the one I talked about
25	I would have eliminated those data points.	25	yesterday, you think about a line and all your
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1	I'd want to do that before, but given the data	1	data points are pretty close to it, but you
2	that I have and given that somebody told me to	2	got one that shoots way up. Well, maybe that
3	remove these data points, I wouldn't outright	3	is an outlier, but by this percentage change
4	I would not reject this model. I would be	4	methodology, you would exclude it because it's
5	looking hard at it. Certainly out of the	5	far away. It's a big change up. But then you
6	first three, this is the best one so far.	6	would also exclude the next one because it's a
17	STAMP, Q.C.:	7	big change back down to the line. And I'm not
8	Q. Okay. And so why would you not adopt this as	8	sure 1 understand the rationale for that
9	your trend?	9	the high and knowling out itself and the paut
	MR. DOHERTY:	10	the high one knocking out itself and the next
	A. wen, it's only looking at a ten-year period.	11	would be wonderful if I could show you an
12	Again, we ve got mese data exclusions. I	12	avample of that and luckily in this data sat
13	going to look at the whole 15 years, and I'm	15	you have it here. If we slide over to the
14	going to test whether or not a ten-year period	14	left a little bit the 2007 H2 which is
15	is actually the ten-year period that I want	15	included in the data set now the actual value
17	and I struggle to understand why I'm not going	17	is 448.75 and that's up 65 percent from the
18	to include 2012 H2	18	272 56 from 2006 H2 So that shot way up
19	STAMP OC:	19	That's a big up Now 2008 H2 is 302.26 so
20	O And when you look at this ten-year period	20	it's down 33 percent from that high but when
$\frac{20}{21}$	because it's a mechanical thing you just said	21	I'm looking at those values. 302.26 doesn't
22	the decision is made on a mechanical basis	22	leap out at me as a potential outlier and I
23	can you find the change in the slope the same	23	don't understand necessarily why you would do
24	way you did when you look at it the way you	24	that. Now before we leave this. I do and I
25	did it?	25	know it's hard, but you almost have to scroll

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1	across and maybe if you could move your li	ttle	1	then we would pick one. You have to for
2	thing at the 302.26. There you are. Yeah,		2	us, you pick a model and that's the one you're
3	your hand is right on it. So the 302.26, now	,	3	going to go with, and so of these four, three
4	if you slide to the next column, 293.31,		4	of them I would outright reject because they
5	that's the fitted value. The difference		5	don't show a relationship and if I were to
6	between the fitted value and your outlier is		6	pick any one of them, ignoring the one that
7	only 8.95. It's your fitted value. Now		7	has the one I wouldn't be rejected, to me
8	again, the fit is after you've removed this		8	it says there's no relationship between loss
9	outlier, but if your fit can fit that outlier		9	cost and time. The trend is zero except for
10	so well, why is it an outlier? I don't I		10	the third one that they did at the minus 3.6.
11	fundamentally just don't understand that. Bu	ut	11	So if those are the four that you've
12	then again, I don't understand the process of	f	12	determined are the best, I would be taking the
13	removing data points before you do your	r	13	minus 3.6 through this mechanical process.
14	analysis.		14	The other ones don't describe a relationship.
15	STAMP, Q.C.:		15	Now as I understand it, because the last part
16	Q. Mr. Doherty, can we come back to -		16	says "we select a loss cost trend rate of
17	MR. DOHERTY:		17	minus one and a half percent which is the
18	A. Sorry, do you want to do the -		18	approximate average of A, the average of the
19) STAMP, Q.C.:		19	four above trends." So you've done four
20	Q. Yes, of course.		20	regressions and presumably these are your best
21	MR. DOHERTY:		21	models. I can't I struggle with that, but
22	A. Just finish this one off. We'll just do the		22	presumably these are your four best models,
23	stats on this one. It doesn't look any		23	three of which I think I've shown should be
24	different than the previous five one, but if		24	rejected outright and one of them has some
25	you just slide down. The challenge is you'r	e	25	value, but rather than taking the one that has
	I	Page 42		Page 44
1	only looking at eight data points and when y	you	1	value then average four of them, three of
2	have volatility like this, any regression is		2	which should have been rejected. So I
3	going to struggle with it. And if you could -		3	struggle with that conceptually. At this
4	- maybe skip the charts and we'll just look a	ıt 🛛	4	point in time though, you've taken a
5	the there we go. So, the R squared, you're	2	5	regression which is based on these squares and
6	explaining 1.4 you're not explaining		6	we've got lots of fun measures and stuff like
7	anything in the data. There's no relationship)	7	that to go off of, but as soon now you're
8	that's being determined. Your fit's horrible.		8	averaging some estimates. It stops being
9	Your residual runs are random. Your P val	ue	9	least squares. We're done with least squares.
10	is 100 percent meaning that you would get	а	10	Maybe least squares isn't the best way of
11	1.9 just through the randomness or noise in	1	11	coming up with it. I think there's a lot of
12	the data. There's no signal there. We would	d	12	literature on least squares, that it's a
13	reject this outright.		13	strong way of determining relationships like
14	STAMP, Q.C.:		14	this but as soon as then you take a bunch of
15	Q. Okay. Can I come back to the page in the	e	15	output from least squares and then you average
16	Oliver Wyman report that had the four		16	them together, it's no longer least squares.
17	regression periods on top? Now that they ha	ive	17	It's some other estimation process. I don't
18	done these you say four mechanical exercis	ses	18	know how to describe it. Maybe there's some
19	with respect to four regressions, what happe	ens	19	literature somewhere that I'm not aware of,
20	then?		20	but we're no longer least squares estimating
21	MR. DOHERTY:		21	our trend. So we take that and then we
$ ^{22}$	A. Well, you know, again, so presumably these	e are	22	average that average and I apologize, I don't
$ ^{23}$	your best you ve looked at a whole bunch	IOI	23	nave the average of those four there.
$ ^{24}_{22}$	suill and you did a whole bunch of regression	ons	24	riesumative And there are assumed if a single
120	and mese are your dest four. Now for us.		20	on negative. And then we average it against

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1	the prior selection of minus two and a half	1	year period when I'm including trends that
2	percent. The prior selection I'm assuming	2	came from an analysis that was done three
3	went through the same process where you did	3	vears ago on periods that at best only include
4	four regressions doing the same stuff, doing	4	half the data from the experience period that
5	ten-vear periods and stuff like that and	5	I want to use. I don't know.
6	rather than choosing one that actually fit.	6 STA	AMP. O.C.:
7	you come up with an average and then you took	7 (O. So in your opinion, is this process that has
8	that average and averaged it with your	8	been adopted here either statistically sound
9	previous one. I guess, you know, as I think	9	or actuarially sound?
10	about it, if the same approach was taken in	10 MR	. DOHERTY:
11	the prior analysis, then you started off with	11 4	A. It doesn't meet my requirement where I'm
12	a ten-year period ending June 2012 and a five-	12	trying to come up with a way to determine how
13	year period ending June 2012. Those two	13	I can take 2003, events that happened in 2003
14	periods are the exact two same periods that we	14	giving rise to claims and how I can adjust
15	have here. The only difference, I guess, is	15	those to make it look like they happened in
16	that I've updated my estimates of ultimate and	16	2015 and generated claims coming out of that.
17	if I'm updated my estimates of ultimate, then	17	There's nothing in here that helps me to
18	presumably I would get different regression	18	believe I can do any of my first five years
19	estimates. If my estimates of ultimate are	19	certainly although I'm not sure exactly how I
20	exactly the same, I'm going to get the exact	20	would apply the minus one and a half percent
21	same numbers, but if there has been a change,	21	trend over the data anyway. Can I use it to
22	then presumably the new values are your best	22	take 2003 forward to 2015 or am I only
23	estimate, in which case I don't know why then	23	supposed to use it to take 2008, '09, '10, '11
24	I would give weight to regression trend	24	and '12 forward to 2015? And again, I'm not
25	estimates that I got the last time when I'm	25	sure this really describes that relationship.
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1	doing the exact same periods now with	1	Even if I'm looking at the most five can I
2	presumably better data. So that part just	2	feel comfortable that this selected thing
3	confuses me. But then I get more confused	3	really represents how events that arose in
4	when I think about, okay, so the last time you	4	2008 that gave rise to claims can really be
5	started off with a ten-year and a five-year	5	reflective of what I can expect to pay if
6	period ending June 30th, but then you would	6	those same events arose in 2015 and had claims
7	have moved it back so you're using ten-year,	7	come out of that? I think there's a huge
8	five-year period ending December 2011 and	8	disconnect between the value that in the
9	you've giving that 50 percent weight and	9	way that the value is determined here and how
10	you're weighting in against your prior	10	I can apply it to what I want to apply it to,
11	selection from the previous one which used	11	which is why I don't think that this does what
12	data periods before that and before that and	12	I want it to do. Ours does what I want it to
13	before that and I'm assuming that, you know,	13	do, in my opinion.
14	if you follow that same thing, you're probably	14 STA	AMP, Q.C.:
15	giving something like, I don't know, five or	15 0	Q. So you make a mechanical decision, as you've
16	six percent weight to regressions done on	16	described this, to pick four periods, the 10
17	periods that don't even include half of the	17	year, and then a five year period being a
18	period that you're supposed to be applying my	18	subset of that 10 year, and a slightly
19	trend to. So I struggle with that whole piece	19	different 10 year, and a five year period that
20	as well. I m not really sure what the purpose	20	is a subset of that slightly different 10 year
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	beginning we're coving the cost of the recever	21	period. Tou decide to do that, and then you
$\begin{vmatrix} 22 \\ 22 \end{vmatrix}$	is to determine a trand that applies to at	22	use that each time as your formula, so to
23	is to determine a neuror mat applies to at least the experience period that we're	23	speak, and, so, increase, you is always
24	including in my indication which is the five	24	What does that to do - if you intended to
125	meraung in my mulcation, which is the nve-	25	mai does mai to do - 11 you miended to

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1	confine yourself to the 10 year period, and	I ugo I j	1	I'll keep going until 2004 drops off my 20	
2	say, the five year period, what does that do	, l	2	year dataset.	
3	when you go back in your formula this wa	av.	3 ST	AMP, O.C.:	
4	always picking up 50 percent for the previo	ous?	4	O. Mr. Doherty, I'm going to ask you to turn to	
5	MR. DOHERTY:		5	the CA-FA-06, in particular the response, and	
6	A. Ignoring the impact of, I guess, the highs a	nd	6	on the package I'm looking at, I'm turning to	
7	lows, the best I can imagine is that, you		7	page 25 to 28 of the material that was filed	
8	know, eventually the data is going to catch	1	8	by Facility in response to those series of	
9	up. Eventually, you know, through this		9	questions, CA-FA-06.	
10	process, you're probably at some point		10 M	R. DOHERTY:	
11	understating, like, you're showing a trend	L	11	A. Yes, we have it up.	
12	that now it should be positive, you're show	ing	12 ST	CAMP, Q.C.:	
13	it as negative, but later on it comes to zero,	-	13	Q. Okay, so what is being asked of Facility in	
14	and then it starts going up. So your process	5	14	this question?	
15	is going to create trends, but the data is		15 M	R. DOHERTY:	
16	going to pull it up and down and pull it up		16	A. Yes, here the consumer advocate asked what	
17	and down. I think the problem I would hav	e is	17	happens to your indicator rate if you use the	
18	that when you get pulled down because of t	his	18	PUB approved loss cost trend rates instead of	
19	process, but I'm showing something that's	up	19	the ones that you selected. So we provided	
20	here, through the process this is capping yo	u,	20	the estimates. We did it off of the	
21	you have to have minus 1 and a half, and	I	21	correction that they identified for us, we	
22	think it's 4.4. In two years, three years		22	corrected for it. If you slide down, I just	
23	from now, there's a catch up, and now, yo	ou	23	want to show the chart here.	
24	know, this process has 4.4, but by then I've	e	24 ST	CAMP, Q.C.:	
25	already changed because the trend has chan	ged	25	Q. Just before you do that, is this effectively	
		Page 50		Page 52	
1	and now I'm at 1 or 0, or minus 1.5. Now	we	1	joining the frequency and the severity in	
2	take mine because mine is lower than that o	one.	2	doing it in a combined way?	
3	It seems to me that the process of allowing	g	3 M	R. DOHERTY:	
4	for me to use a trend is capped. As long as	5	4	A. Yes, so this is then - my BI is -1.5. I can't	
5	mine is below this one, then I have to use		5	remember exactly what the trend is on the PD.	
6	mine, and if mine is above that, I have to us	se	6	This is the blended rate of the PUB trends	
7	this one. So it's a biased approach to the		7	TPL, but it is downward sloping, as you can	
8	application of the trend, I guess, as I see		8	see. So what we've done here in those charts	
9	it. I'm assuming that, you know, you're go	ing	9	below, we're showing - the blue bars are the	
10	to get these potentially wild swings. If I		10	actual loss cost over that 10 year period that	
11	don't think that the period has changed or the	he	11	we have available to us of the taxi rates.	
12	trend has changed since 2004, I may ge	t	12	The purple dotted line at the top would be the	
13	updated data. My estimate of that trend		13	loss cost that you would fit based on using	
14	parameter may change. I'm always testing	to	14	Oliver Wyman's trends and taking an average of	
15	see if the trend has changed, but if it		15	the most recent five. So you can see that	
16	hasn't, then next year it's still going to		16	it's downward sloping, and certainly, you	
17	start at 2004-H2. I've just got more data		17	know, it does go through the 2010, 2011, and	
18	points on this end. It may move my fitted	1	18	2012 periods, but it's well above 2008 and	
19	line a little bit, but it's going to stick		19	2009, and that's because we had to use all	
20	around there unless as I test it, if something	;	20	five of those periods to set it, and then it's	
21	comes up and the data says, listen, it		21	dropping down from there. So on this view, by	
22	changed, it changed at this point, and I can		22	2015, 2016, the loss cost rate drops down to	
23	give you a statistically valid support for		23	somewhere in the neighbourhood of \$3,200.00 or	
24	that change, I'm not going to change that	:	24	something like that, but if you look back	
25	period. I'm going to keep going from 200	4.	25	beyond the most recent three periods, it's	

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1	sitting well above 2007, 2008, and 2009. In	1	STAMP, O.C.:		
2	fact, it's sitting well above 2006, 2005,	2	Q. And what	colour is that going to be here?	
3	2004, 2003. When I'm looking at that, for me,	3	MR. DOHERTY:		
4	personally, it doesn't look like that trend	4	A. It's the rec	l one, the first red part.	
5	line, that downward slope, really describes	5	STAMP, Q.C.:		
6	the data. Even if - there's a number of lines	6	Q. Okay.		
7	on here because we're looking at different	7	MR. DOHERTY:		
8	things. The top line is based only on the	8	A. If instead	you believe the credibility	
9	taxi experience. The green dotted line is	9	weighted v	view, but still using their trends,	
10	using our estimate of the loss cost underlying	10	then 2013	would come in just shy of \$3,000.00,	
11	the current rate, and then the red line is a	11	and if you	believe the experience is really	
12	credibility weighted of those two. So they're	12	what's goi	ng to be the main factor of this,	
13	all parallel because we're using the same	13	then you	would look at the addition of the	
14	slope, but even if you use the dotted green	14	purple bar	rs. So there you're up above	
15	line, it doesn't really look like a good fit	15	\$3,000.00.		
16	if you think about residuals should be random	16	STAMP, Q.C.:		
17	because the first four are all below and the	17	Q. So these b	lue bars to the left of those newly	
18	last six are all above it. To me, visually it	18	added colo	our bars are intending to show where	
19	doesn't, to me, look like that downward slope	19	Oliver Wy	man sees the result in 2013?	
20	actually fits the taxi data.	20	MR. DOHERTY:		
21	STAMP, Q.C.:	21	A. Yes, so the	e blue bars are actuals, and then	
22	Q. So these lines, the purple line, the red line,	22	again usir	ig the trend assumptions, we can	
23	and the green line, are intended to somehow	23	project for	ward based on that what is the	
24	capture the direct that the blue bars are	24	implied los	ss cost using those trends, and then	
25	indicating, is that what's going on?	25	under thes	e three different scenarios; one	
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1	MR. DOHERTY:	1	being if th	e rates are currently adequate,	
2	A. That's right. If the loss cost experience	2	then the lo	oss cost must look like this; if	
3	that we have is following the trends that are	3	instead the	e loss costs are going to look like	
4	proposed by the Oliver Wyman Report, this is	4	the experie	ence, then it's going to look like	
5	how they would have to look.	5	the bigger	one or the credibility weight, a	
6	STAMP, Q.C.:	6	piece in be	etween, so -	
7	Q. If you swing across the page where they have	7	STAMP, Q.C.:		
8	the bar with the different colours in it, what	8	Q. If you star	rt with rates being adequate, if	
9	does the red line - let's, for example, say	9	that theory	is applied, which of the coloured	
10	the red line. What does it tell you that the	10	bars would	1 you be seeing?	
11	blue bars to the left from 2012 and before,	11	MR. DOHERTY:		
12	what do those blue bars tell us about where	12	A. It would b	e the red, going up to $$2,500.00$.	
13	the blue bar for 2013 would be?	13	STAMP, Q.C.:		
14	(12:00 P.M.)	14	Q. All right.	So if the theory is that we	
15	MR. DOHERTY:	15	started this	s process with adequate rates, then	
16	A. So it's the same information as in the first	16	Oliver Wy	man would be -	
17	one, but we just changed it so instead of	17	MR. DOHERTY:		
18	lines and to try and make it clearer what the	18	A. Not adequ	ate rates. This is the underlying	
19	implication is, the first one for 2013, the	19	based on o	ur view.	
$ ^{20}$	red part of it says, well, if the underlying	20	STAMP, Q.C.:		
$ ^{21}$	loss - the underlying assumption that the	21	Q. Okay.		
$ ^{22}_{22}$	rates are currently adequate, then under that	22	MR. DOHERTY:		
$ ^{23}$	assumption and using Oliver wyman's trends,	23	A. So under o	but this and analysis are currently not	
$\begin{vmatrix} 24 \\ 25 \end{vmatrix}$	in around \$2,500,00	24	roto indico	tion that we had from our provious	
120	σ III aloullu $\mathfrak{P}_{2,3}$ UUUU.	25	rate indica	aton that we had from our previous	

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1	filing, adjusted for the rate that we did get,		1	year pe	riods or any longer period have been
2	but recognizing that we didn't ask for, nor		2	declinir	ng. They have been going up.
3	did we get all the rate that we needed from		3 5	STAMP, Q.C.:	
4	that indication.		4	Q. And no	w the conclusion is they're going to
5	STAMP, Q.C.:		5	decline	, Oliver Wyman's conclusion?
6	Q. But all these newly added four coloured bars		61	MR. DOHERT	Y:
7	on the right of the right hand graph are		7	A. I believ	e the conclusion is that they were
8	intended to show where the result will be for		8	declinir	ng before, and they're going to
9	2013, 2014, 2015, and 2016, as is driven by o	r	9	continu	e to decline, because as I understand
10	is indicated from the blue bars to the left?		10	the ana	lysis, I should be using a -1.5 at
11	MR. DOHERTY:		11	least ov	er the experience period between 2008
12	A. Yeah, based on those assumptions that loss		12	and 201	2. So while, to me, it looks like, and
13	costs are dropping.		13	the con	firmation is on just doing a simple
14	STAMP, Q.C.:		14	trend ar	alysis that the loss cost for taxis
15	Q. And did you make a comparison with that	Ē .	15	are goir	ng up. The view taken from Oliver
16	information, did you show anything - I look a	t	16	Wymar	i's analysis of Newfoundland industry
17	the next page. There are some additional -		17	comme	rcial data is that loss cost are actually
18	MR. DOHERTY:		18	going d	own.
19	A. I think you have to bring up FA-07. Oh, no,		19 5	STAMP, Q.C.:	
20	sorry, on here, yeah. In this case, all we	-	20	Q. So you	see the blue bars as taking us up; they
21	did was said, okay, well, just look at the	ĺ.	21	see the	blue bars as taking us down?
22	experience and this is just a very, very rough	Ĺ	22 N	MR. DOHERT	Y:
23	- but this is regression as well. All we've		23	A. Yes, Is	ee it - in my view, I just put on a
24	done is we've done an exponential trend. It's		24	regressi	on and the regression also says that.
25	calculated the exact same way as we did the		25	Again I	didit i do all the other tests that we
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1	other stuff, and all we're showing here is an		1	would i	normally do. This is just to show you
$\begin{vmatrix} 2 \\ - 2 \end{vmatrix}$	R squared fit, but we've got loss cost for the		2	that you	i just do simple regression on it, it's
	taxi, third party liability. The little one		3	going u	p, it's not just my eyeballs telling
	that says Y, the first number is effectively		4	me, it i	s going up, apparently. Certainly
3	the cost of the intercept, E is a log-normal		5	down	Of those two are suggesting it's going
	base. The .007, the 07 is the trend, so it's		0		Call we look at F7, I tillik -
	me the regression tells me you've got a 6.7		/ 2	$\begin{array}{c} \text{STAMP, Q.C.:} \\ \text{O} \mathbf{Vec} \mathbf{w} \end{array}$	all I'll come back to that in just a
	percent trend and by the way, your P squared	a	0	Q. 105, w	t I think you can go there. You want
10	is 80 percent meaning that over that period	1	2 10	to look	$2 \text{ FA}_{-0.72}$
11	the regression you've asked me to do explain	2	11	MR DOHERT	v.
12	80 percent and I don't have the rest of the	3	12	A I heliev	e so That's the one we show our
13	stats this is just - you can - if you've got		13	trends of	on it
14	a chart in Excel, you can click on your data		14 5	STAMP. O.C.:	
15	and say give me an exponential trend, and you	1	15	0. Yes. ve	ah, maybe you can just move to the next
16	can tell it, put up the stats for me. So I		16	questio	n and response, please.
17	haven't done anything else other than that.		17 N	MR. DOHERT	Y:
18	All we really want to show here is that if you		18	A. Here w	e've done the same thing as we did, you
19	look at that four year period, loss cost for		19	know, u	using Oliver Wyman's trends, except we
20	the taxis have been going up at 6.7 percent		20	used ou	rs, and this is the 4.4 post-2004, but
21	per year. If you look at the most recent five	/	21	as you o	can see, before 2004, our trends were
22	years, the trend there is 4.8 percent. Both of	,	22	showin	g downward on a loss cost, and then they
23	those are estimates of the underlying trend.	1	23	started	to go up after 2004. It's like a
24	To me, neither of those suggest that loss cost	/	24	little ho	ckey stick, I guess, I would describe
25	for the industry over the most recent five	,	25	it, but t	hat even looks like the results from

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1	the taxi industry. So our assessment of the	1		which are March 21, 2014, and in particular, I
2	Newfoundland industry commercial, using our	2	2	guess, the response to those, which is in
3	bifurcation of periods and coming up with our	3	;	Facility's response on 31 March, and in
4	estimates of what was happening with loss cost	4	Ļ	particular, I'm looking at question number 11,
5	over that period, it seemed to look something	5	í	OW 11?
6	like what we were seeing happen with the	6	MR.	DOHERTY:
7	taxis, and I'm looking at that and it seems -	7	A	. Yes, so maybe if we go up to the bottom of the
8	to me, it seems to fit better. There's still	8	5	next page to get the actual question - sorry,
9	bias in each of the estimates. The underlying	9	,	the previous page. There you go, there's the
10	one is always below the actual loss cost. The	10	1	question.
11	weighted one is always below except for when	11	STA	MP, Q.C.:
12	you get back pre-2007. The experience one	12	Q	. The previous page, yeah. So what's being asked
13	does look like the actual experience piece.	13	i	here?
14	So when I'm looking at this, that seems to	14	MR.	DOHERTY:
15	make more sense to me on how things are going.	15	A	. So the question was, "The graphs in the loss
16	If you look over on the other one where we put	16	,	trend section show", and this is in reference
17	them into bars, the experience projections are	17		to our filing, "for bodily injury, evidence of
18	the red, green, and purple all together. You	18	,	an upward frequency trend pattern prior to
19	can see that that's showing it's continuing	19)	2004 and then a decline in the frequency trend
20	on. That's not what we used in our	20)	after 2004". The question then was, "Explain
21	indication, but nonetheless, that's if you	21		why the period after the change in direction
22	believe that the experience is your best bet	22		was not chosen as the regression period". So
23	for determining what it is, and then you go	23	j.	when we read that, we interpreted it as, we
24	forward from there going up 4.4 percent.	24		look at the period and we see a change in 2004
25	Certainly, you know, the red plus the green is	25		in frequency that you haven't included in your
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1	the credibility weighted one, so it would	1		regression, and so our response was we didn't
2	imply that from 2012 down to 2013, you drop a	2	-	understand the question because we did have
3	little bit, you drop down to \$3,000.00, but	3	i	two different periods. We agree with the
4	then it starts marching back up again, and if	4	,	assessment that they had made that there are
5	you believe the underlying, then you go from	5	j.	two periods; one going to 2004-H1 where
6	2012 being about \$3,500.00, you drop down to	6)	frequency is increasing, and then one after
7	just over \$2,000.00, which, I guess, would be,	7	(2004 where frequency is decreasing. So we
8	you know, a level you haven't seen since 2006,	8	j	fully agree with the assessment that was made
9	but then you start going up from there. For	9	1	in the statement in that question, and we used
10	me, at least the shape which is reflected in	10	I	those regression periods in our analysis.
11	the trend, the slope of that line, even the	11	STA	MP, Q.C.:
12	hockey stick aspect of it that's incorporated	12	, Q	And what was the period then that you finally
13	in our trend analysis using that bifurcation,	13		adopted for your regression?
14	to me looks a lot more like the results of the	14	MR.	DOHERTY:
15	taxi business per FA. Certainly, for me, it	15	. A	. It was that period, that 2004-H2, and the
10	avpariance for the industry which is why we	10	,	spin between the two periods, the first
10	nicked it and doing the same thing for each	10	,	2004 H2
10	of the other coverages, you get the same	10	стл	2004-112. MP_0_C :
20	result I believe our trend better reflects	20		But throughout the Oliver Wyman Report - I'm
$20 \\ 21$	the experience for the taxis I think it	$ _{21}^{20}$	Q	talking about the actual report of 16 May
	better reflects the experience of the	21	,	Oliver Wyman seems to say that they are
$\frac{22}{23}$	commercial vehicles in Newfoundland	23		concerned with the repeated choice by Facility
24	STAMP. O.C.:	24		to use 20 year regression periods?
25	O. Can I turn to the Oliver Wyman's questions.	25	MR.	DOHERTY:

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1	A. Yeah, we - if the data told me that there's	1	1	final model that you thought best reflected
2	one trend over the whole period, I would h	ave,	2	each individual coverage, the best one that
3	but for this particular instance for our		3	reflected frequency and severity; yes. Did
4	analysis of the Newfoundland industr	y 2	4	that include 20 years as one long period; not
5	commercial vehicles, I'm not aware of any	time	5	to my knowledge.
6	where we picked one trend over the full	20 6	6 ST	STAMP, Q.C.:
7	year period. There was always bifurcatio	n, 7	7	Q. Okay. They make the same observation - if you
8	there was always at least two periods as fa	r ٤	8	flip over, you don't need to go there, but the
9	as I'm aware in all of our trend analysis, an	nd 🤉	9	property damage commentary, the accident
10	most of them were around that 2004. I do	n't 10	0	benefits commentary, the first bullet, the
11	know what happened in 2004, I don't know	w why 11	1	same phraseology is used. Is your response
12	necessarily things are changing post-2004,	but 12	2	the same in respect of that observation?
13	it seems to be a bifurcation of periods in th	e 13	3 M	MR. DOHERTY:
14	experience itself. So, yes, I reviewed	20 14	4	A. Absolutely, I mean, we take the same approach
15	years worth of data. Did I use a single tren	d 15	5	to every single coverage.
16	period; no, I did not, and, in fact, the	16	6 ST	STAMP, Q.C.:
17	period that we used for most, if not all the	17	7	Q. Okay. Yesterday, Mr. Doherty, you mentioned -
18	coverages, as reflects the indication that	18	8	you brought up about an Oliver Wyman
19	we've used is an eight year period post-20)4. [19	9	conclusion that while FA - I think you said,
20	(12:15 P.M.)	20	0	while FA did not find - there was a discussion
21	STAMP, Q.C.:	21	1	about seasonality.
22	Q. So if I can just bring up the Oliver Wyman	16 22	2 M	MR. DOHERTY:
23	May 2014 Report, and the heading, bod	1ly 23	3	A. Yes.
24	injury. It's page 11, the typed copy that I	24	4 ST -	STAMP, Q.C.:
25	have. Just go down to the first bullet unde	r 23	5	Q. And that you mentioned, I think, Onver wyman
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1	bodily injury. They say that in their opinic	n 1	1	noted that you did not find seasonality and
2	the 20 year period is too long to serve as a	. 2	2	that they did find seasonality. Am I correct
	basis for selecting trend rates, but did you	3	3	about what you said yesterday?
4	use a 20 year period for the trend rate?	2	4 M -	MR. DOHERTY:
5	MR. DOHERTY:		5	A. Yes.
0	A. Not a single period of 20 years, no. 1 did		0 51	STAMP, Q.C.:
	worth of L got 40 data points that L can		/ 0	bullet under bedily injury is that the
	look at and I looked at all of them and the	n (0 0	discussion that you were talking about?
10	through an interrogation of the data I		9 0 М	MP DOHEPTY.
	determined what periods I felt best reflecte	d 1	1	
12	trends or changes in trends and I do not	u 11	1 2 ST	STAMP OC:
12	believe that in any case. I nicked one that	12	3	O And again what was the period of your
14	encompassed one trend over the full 20 v	ear 14	4	regression where you determined - revealed the
15	period. So I don't believe that's really an	1.	5	trend and determined that no seasonality was
16	accurate representation. I did review 20	16	6	evident?
17	years. Did I do a 20 year regression;	17	7 M	MR. DOHERTY:
18	absolutely, that was the first one that I did.	18	8	A. The regression model that we used covers the
19	Did I do a 20 year regression including	19	9	full 20 periods, but we bifurcated into two
20	seasonality; absolutely, for every single	20	0	periods; the first period ending 2004-H1, the
21	coverage I did that. Did I do a 10 year split	t 21	1	second period ending - sorry, starting 2004-
22	into two five year periods; yes. Did I do fo	r 22	2	H2. So the second period does not -
23	every single coverage two split between -	at 23	3 ST	STAMP, Q.C.:
24	2004 when that reform; yes. Did I do a wh	nole 24	4	Q. I'm sorry, I didn't catch what you said.
25	bunch of other ones; yes. Did you pick	a25	5 M	MR. DOHERTY:

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1 A. Sorry, the second period, we did use full	20 1 STAMP, Q.C.:	
2 years, but we split it into two different	2 Q. In the th	ird bullet here, Mr. Doherty, under -
3 periods.	3 these dis	scussions have been on the bodily
4 STAMP, Q.C.:	4 injury, o	f course, but in the third bullet it
5 Q. And what was the second period?	5 seems th	nat Oliver Wyman questions this, I
6 MR. DOHERTY:	6 guess, re	cognition that you've made. Your
7 A. 2004-H2 to 2012.	7 view see	ms to be that legislation in 2004
8 STAMP, Q.C.:	8 which in	troduced a \$2,500.00 deductible that
9 Q. 2004?	9 applied a	cross the board, you saw it as having
10 MR. DOHERTY:	10 influence	e, did you?
11 A. Yes.	11 MR. DOHERTY	
12 STAMP, Q.C.:	12 A. We assu	me it's related to the 2004 reforms.
13 Q. And what was the period you understand th	nat 13 STAMP, Q.C.:	
14 Oliver Wyman's suggested to use based on t	hat 14 Q. You said	before you don't know what the cause
15 report we went back through a little while	15 of the ch	ange is, but there's a change?
16 ago?	16 MR. DOHERTY	:
17 MR. DOHERTY:	17 A. Yes.	
18 A. Well, based on the final sentence in that	18 STAMP, Q.C.:	
19 paragraph - sorry, in that bullet point, they	19 Q. And coi	ncidental with the change that you
20 say, "The parameter test we applied indicate	s 20 observe,	these changes in the legislation
that a seasonality parameter should be applied	ed 21 occurred	?
in the regression model over the 2005 to 2	012 22 MR. DOHERTY	:
23 period".	23 A. That's co	prrect.
24 STAMP, Q.C.:	24 STAMP, Q.C.:	
25 Q. But what period is that?	25 Q. The intro	oduction of the deductible occurred?
I	Page 70	Page 72
1 MR. DOHERTY:	1 MR. DOHERTY	:
2 A. That's not the period that I used.	2 A. Yes.	
3 STAMP, Q.C.:	3 STAMP, Q.C.:	
4 Q. Is it the period that they used?	4 Q. And so v	what do you say to Oliver Wyman when
5 MR. DOHERTY:	5 they say	we don't see any - I mean, you're
6 A. I think that's a seven year period, might be	6 seeing so	omething. They don't see anything.
7 an eight year period, I'm not very good at	7 MR. DOHERTY	:
8 arithmetic. I don't believe it's one of the	8 A. I'm just	looking at the data, and so I see a
9 10 or 5 year periods that they actually used.	9 bifurcati	on occurring at that point in time.
10 STAMP, Q.C.:	10 It may be	e because of the 2004 reforms, maybe
11 Q. When we started off the discussion this	11 not. Oliv	ver Wyman may have done a study that
12 morning, we had this mechanical choice of f	our 12 focused	- like, maybe a closed claims study or
13 periods?	13 somethir	ng like that that says we actually
14 MR. DOHERTY:	14 looked a	t the claim settlements related to
15 A. Yes.	15 non-pecu	iniary losses and the application of
16 STAMP, Q.C.:	16 deductib	le pre and post the 2004 reform, and
Q. Did the 2005/2012 period that they mention	ied 17 we've de	etermined based on a separate study
18 in seasonality here match any of those four	18 that the	re is, in fact, no change in the
19 periods?	19 outcome	s. I don't know, they may have done
20 MR. DOHERTY:	20 somethir	ng like that. Maybe that's how they
21 A. No.	21 determin	ed that for their view the 2004
22 STAMP, Q.C.:	22 reforms	had no impact on loss cost, and that's
23 Q. So where does that period come from?	23 fine, I do	on't know, I'm not aware of any study
24 MR. DOHERTY:	24 like that.	We certainly did not do a study.
25 A. I don't know.	25 All we d	id was said, look, we're looking at

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	1 the data, and it appears that they agree at	1	MR. D	OHERTY:
	2 least in terms of frequency, there was a	2	A. <i>A</i>	As I understand it, prior to the
	3 change in frequency. So we're attributing	3	i	mplementation of a health levy, the
	4 that change in frequency as initial estimate	4	ľ	rovincial health body would subrogate against
	5 due to the reforms, so it was going up. If	5	i	nsurers individually on individual claims to
	6 frequency continued to go up, you would have	6	r	ecover the cost associated with automobile
	7 been up here, but it started to go down, so we	7	C	laims through the medical system. It was
	8 measured the gap between those two and that	8	Ċ	eemed to be an administrative burden and it
	9 gap, as they point out here, was 27.2 percent	9	ł	appened across many jurisdictions where they
1	0 drop, and then it continues to go from there.	10	C	hanged the approach then to have an annual
1	1 On the severity, we saw the same thing.	11	1	evy applied to the industry as a mechanism
1	2 Severity was going up and it went up more, and	l 12	f	or capturing the cost across all insurers.
1	3 so again we looked at where it was going to	13	Ι	Different jurisdictions have different ways of
1	4 go, and then compared along one trend line and	l 14	Ċ	etermining the allocation of the amount, but
1	5 then the other trend line, and just compared	15	а	s I understand it, the Ministry of Health in
1	6 the values to come up with that. Is it	16	1	Newfoundland determines the amount of money
1	7 because of the change in the deductible; I	17	ť	ney need to recover, and then they have a
1	8 don't know. Does it have anything at all to	18	r	nethodology of determining which of the
1	9 do with the reforms or was it just	19	i	nsurers pay what amount to them to recover
2	coincidental; maybe, I don't know. All I know	20	ť	nose costs. In the case of Newfoundland,
2	is the data is telling me something happened,	21	t	ney're working with - as I understand it,
2	there's a change, you should reflect the	22	t	ney work with IBC to determine a levy that's
2	change, it's valid, so I did.	23	а	pplied on a per vehicle basis, but it doesn't
2	4 STAMP, Q.C.:	24	а	pply to all vehicle classes. In particular,
2	Q. All right, Mr. Doherty, do you have anything	25	t	ne number that IBC takes to them to say,
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	1 further to add on the issue of trend that we	1	C	kay, you've decided on how much money you
	2 haven't covered?	2	V	vant to collect; well, here's the number that
	3 MR. DOHERTY:	3	У	ou're going to use to collect, and here's how
	4 A. No, I don't believe so.	4	e	ach individual insurer in the province sums
	5 STAMP, Q.C.:	5	ι	p to that number, and there are certain types
	6 Q. All right. Can we go to again the Oliver	6	C	f classes of business that are included in
	7 Wyman Report, 16 May. I think I would like to	7	t	hat number and there are certain glasses of
	8 go to - they mention in this report, and I	8	ł	usiness that are not. Taxis are not included
	9 think it's at - they mention the five topics	9	i	n that number, and because of that, we do not
1	0 that they want to deal with. It shows up at	10	i	nclude in our indication a levy for health
1	1 page eight toward the bottom of the page, the	11	C	osts that we would have to garner from the
1	2 paragraph beginning, "Based on our review".	12	t	axi industry. If we included that cost, and
1	3 This is the five topics, do you understand,	13	S	o we were effectively getting the taxi
1	4 that Oliver Wyman has identified that they	14	C	rivers to pay that expense on our behalf and
1	5 want to discuss and, I guess, deal with in	15	V	we share that with our members, the Ministry
1	6 their report?	16	0	f Health would not be asking for that money
1	7 MR. DOHERTY:	17	t	rom our members, so it would just effectively
1	8 A. Yes.	18	Ę	o into the pockets of our members, and that's
1	9 STAMP, Q.C.:	19	r	ot how we do business. We capture cost in
$ ^2$	Q. And we've dealt with loss trend rates, have we	20	t	he premium that they are responsible for.
$ ^{2}_{-}$	not?		[] •	ne premium tax is a perfect example.
$ ^{2}_{2}$	Z MK. DUHEKTY:	$ ^{22}$	1	The promiume are allocated to see
$ ^{2}_{2}$	A. I es, I beneve so.	23	t	ax. The premiums are allocated to our
$ ^2$	4 STANIP, U.C.: 5 O What's this issue the health law?	24	r +	here is and when it failes on their books, then here responsible for paying the promium
14	J = 0. What S this issue, the health levy (123	ι	

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1	tax. We do, in determining our rates, include	1	1	are going to continue going forward, even with
2	a provision for the premium tax, so when that	2	2	the rates that we're proposing, we're not
3	premium lands at the individual member	3	3	going to get enough premium to pay for the
4	company, they have the money to then pay the	4	1	indemnity claims, not to mention any of our
5	premium tax from that premium level. In this	5	5	other expenses.
6	case with taxis, because they're not included	6	5 ST	AMP, Q.C.:
7	- whether or not they should or should not be,	7	7	Q. All right. Can we turn to C-1, please,
8	they are not included in that base count, and,	8	3	Exhibit C-1.
9	therefore, there's no reason for us to include	9) MI	R. DOHERTY:
10	that as cost.	10)	A. Maybe before I leave that -
11	STAMP, Q.C.:	11	ST	AMP, Q.C.:
12	Q. All right. Mr. Doherty, the third and fourth	12	2	Q. Oh, yes.
13	items, the credibility standard, and the basis	13	3 MF	R. DOHERTY:
14	for the complement credibility, did you	14	ŀ	A. I don't want to shock people, but if the
15	propose to deal with that when you'd come back	15	;	experience is really reflective of the
16	to Exhibit C-1?	16	<i>;</i>	underling cost and it continues at that level,
17	MR. DOHERTY:	17	/	and eventually we will get there if it
18	A. Yes, please.	18	3	continues like that, the actual indication
19	STAMP, Q.C.:	19)	would be about 126 percent increase. The
20	Q. So maybe we can go to - before you go to C-1,	20) 	average rate -
21	I just to come back to D-1 for a moment if we	21	i ST	AMP, Q.C.:
$ ^{22}_{22}$	can.	22	! 	Q. As compared to the 50 that you proposed?
23	MR. DOHERTY:	23) MI	X. DOHERIY:
24	A. Soffy, I don't have a page number for you. I think it maybe page 55 or something. There you	24	+ -	the tayi experience, and we have a credibility
23	unink it maybe page 55 of something. There you	70	, 	
	Page	/8	1	Page 80
	go, perfect, page 40.		י ר	there but Livet went everyone to understand
$\begin{vmatrix} 2\\ 2 \end{vmatrix}$	• STAMP, Q.C.:		2	that if the experience, continues along the
	is toward the right hand side of the D-1		, 1	nath that it has been apparently on at least
5	Exhibit I think that's where we'd be	5	5	the last five years if not the last ten then
6	looking What I want to ask is what is the	6	ń	our rates are grossly inadequate and they need
	implication of Facility not getting the 50	7	, 7	to more than double, and the 2012 on-level
8	percent rate that its proposed?	8	3	premium after you take into account the close
9	MR. DOHERTY:	9)	to 50 percent increase overall that we got
10	A. So in this particular case - now this is just	10)	last year, the average premium is just over
11	based on the taxi experience and this is not	11	l	\$3,000.00. At 126 percent increase, you're
12	the end result that we're proposing, as we'll	12	2	looking at almost \$6,900.00 as average
13	see when we get to C-1, but the trended	13	3	premium. There's a significant difference
14	ultimate loss ratio that you see in Column 17,	14	ł	between what the experience alone is saying
15	the weighted average of the most recent five	15	5	and what is being paid. I just want to make
16	years, just taking a straight average of the	16	5	it clear that - we're going to talk about
17	most recent five years, that loss ratio, which	17	7	credibility and we're going to talk about how
18	includes the rates that we got and the rate	18	3	we do the credibility weighting and stuff like
19	increase we got last year, if there's no rate	19)	that, but if the experience continues along
20	increase right now, then we would project as a	20)	that path that we've seen for the last ten
21	first estimate for 2015, you would get about	21	Į	years, eventually that credibility weighting
22	153.8 percent loss ratio. At that rate, even	22	2	process is going to lead you to the
23	with the rate level that we're proposing, that	23	3	experience, and you're going eventually to get
24	loss ratio doesn't come down to 100 percent.	24	ŀ	to rates that are commensurate with this. So
25	If the experience is reflective of how things	25	;	does it happen next year, the year after, the

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1 year after, but some time in the next per	iod 1	uninsured motorists, and percentage-wise
2 you're going to get there unless somet	hing 2	absolutely correct that those are levels that
3 dramatically changes in the underlying t	rends 3	we are proposing. So if we can go back. I'll
4 that we're seeing in the taxi loss cost pie	ce. 4	just run through the rows kind of quickly.
5 (12:30 P.M.)	5	You can see that 93 percent premium
6 STAMP, Q.C.:	6	distribution and third party liability in Row
7 Q. All right. Perhaps we can turn, Mr. Doh	erty, 7	6. Row 7 is what we propose as the complement
8 to C-1 then, Exhibit C-1.	8	of credibility. We start off with the
9 MR. DOHERTY:	9	assumption that - and this is what we do
10 A. Yes. We can make it bigger because I'm	m only 10	across the board in all of our jurisdictions.
11 going to really focus, I guess, on the thi	rd 11	Our approach is - and, you know, when I joined
12 party liability column still. I'm going t	o 12	in 2010, through 2011, I was focused more on
13 try and go through this quickly becau	ise 13	valuation. In 2012, I started focusing our
14 although I could talk for days, I'm su	re 14	attention on the pricing aspect of it and how
15 people are getting tired of listening to m	ne, 15	we were going to do things and what our
so I'll go through this - D-1 is really the	e 16	approach was, and there are a number of
17 one that drives - this is what the experien	nce 17	changes that we implemented. One of the
18 looks like. Now this process, let's man	rry 18	changes was that we had two providers of
19 that information with some other inform	nation 19	services; one that dealt with the Atlantic
20 that we have, let's load things up for	r 20	provinces, and one that dealt with Ontario,
21 expenses, let's take into account investr	nent 21	Alberta, and Territories. They had two
22 income, to come up with what kind of r	ate do 22	slightly different approaches, so we
23 we need to change. So the first six ro	ws 23	consolidated, we believe we took best
there are really around what are our cur	rent 24	practices from the two of them. They were
25 exposures, what's our current written pre-	emium, 25	very similar, but there was also a difference
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1 put the stuff on-level, and most of that is	to 1	between how the private passenger, commercial,
2 put things into perspective, and just for	a 2	inter-urban, there was a template, if you
3 second, I do want to maybe focus a little	bit 3	want, for that process and it was a process
4 on some average premiums, particularly	row 5, 4	very similar to what you're seeing here, and
5 these are at current rates. So the average	ge 5	then there was another process that was a
6 premium that we charge right now on a	verage, 6	simplified indication worksheet that worked
7 as estimated for third party liability is ju	st 7	through for public classes and the
8 over \$2,800.00. If we could just slide ov	ver a 8	miscellaneous, and taxis fall into public
9 bit to another column because I want to	make 9	class. When we adopted our approach, we
10 sure that things are in perspective. For	r 10	adopted a single approach across all
11 accident benefits, we charge \$80.00, and	d for 11	jurisdictions, all classes of business. So
12 uninsured automobile it's \$14.00. So as	s we 12	while we tweak and try and improve the trend
13 talk about some of - you know, your acc	cident 13	model that we have, this trend model is
14 benefits and uninsured automobile, the	rate 14	applied across all jurisdictions and it's
15 indications are very large, but when you	're, I 15	applied across all classes of business. One
16 guess, quadrupling a \$14.00 level, you	1're 16	of the things that we had to look at was that
17 getting up to something short of \$60.00.	Just 17	there were different approaches on what the
18 keep that in mind, percentages, when y	ou're 18	full credibility standard should be, and what
19 talking about small bases, doesn't neces	sary 19	we've adopted again across the board is that
20 translate into large dollars, but we wil	1 20	if we haven't done a rate filing for that
21 focus on the third party liability because	se 21	particular class in the last two or three
that's where 92 percent of the premium	is and 22	calendar years, then we start with the
that's where the focus of our activity is	8. 23	assumption that the rates are adequate, the
Although there are large percentage cha	anges 24	expiring rates are adequate for that period
being talked about for accident benefits	and 25	and we start from that position. If we have

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1	had a rate filing within the last two to three	1	apply a premium trend to get to a new loss
2	calendar years, then we start from the	2	ratio that we believe is at current rates.
3	position that our best estimate of the project	3	Those are the steps that are reflected in 9,
4	loss ratio can be pulled from that previous	4	10, 11, 12, and 13, to get you to - sorry,
5	filing. That's a good solid estimate based or	n 5	this is before we do the trending. So this is
6	what that review suggested for the average	e 6	just getting you to the on-level premium, Row
7	period, and we're just going to take that as	7	14, so this shows you the nominal loss ratios
8	our initial estimate and project it forward	8	at the current rates reflecting rate changes
9	based on claims trends and premium trends,	and 9	that we actually got. Then 15 to 21 is taking
10	we do that through Exhibit C-2. So if we	10	- 21 is our ultimate goal in this process, but
11	could, I'll just take us quickly to C-2.	11	15 to 20 adjusts for loss cost trend and for
12	There's a couple of rows here I kind of war	it 12	premium trends. So loss cost trends, if
13	to highlight. I think the main one I want to	13	they're positive, they drive up the loss
14	start with is actually Row 8. Row 8 is	14	ratio. Premium trends, if they're positive,
15	projected ultimate loss ratio nominal prior to) 15	drive down the loss ratio, and we're doing the
16	rate change. In our ideal world, that just	16	trend period between the average dates between
17	comes directly from the result we had before	e. 17	the periods - it's not exactly one year, it's
18	The previous analysis, though, was complete	ted 18	actually 396 days, and we take that into
19	by our partner, Eckler, and they were using	a 19	account. So we end up with a projected loss
20	different approach, and so going forward it's	s 20	ratio at current rates that's consistent with
21	very easy for us to drop this in because it	21	the previous filing, our previous indication,
22	comes right out of our C-1 Exhibit, but we h	ad 22	coming from our previous indication as we
23	to determine what that was through this	23	previously filed. So that's how we arrived at
24	process because this is our starting point,	24	that 97.8, and that shows up in Exhibit C-1 as
25	what is the projected ultimate loss ratio from	n 25	our complement of credibility. Now one of the
]	Page 86	Page 88
1	a prior analysis prior to the rate change that	1	points Oliver Wyman suggests is that we should
2	we got from that filing process. So the first	2	not be using the loss ratio that's coming from
3	part going from Rows 2 through to 7 is an	ı 3	the previous analysis, we should be using a
4	attempt to convert the previous one to this	4	loss ratio that's consistent with the
5	idealized state, Row 8, and as the Consume	er 5	assumption that our rates are currently
6	Advocate when they did their review the	у б	adequate. I think as we looked at some of
7	identified in Column 2 that we had actually	/ 7	those loss charts, loss cost charts, we're
8	started from the wrong spot, we had picked	up 8	looking at what are the implications of if our
9	from the previous analysis a loss ratio that	9	rates are currently adequate, what does that
10	we thought was discounted in that one, it was	is 10	imply of loss cost. I think it's very hard to
11	not discounted - sorry, we thought it was	11	make an assumption that our rates are
12	discounted, it was not discounted, and as the	ey 12	currently adequate. There's two things -
13	pointed out, we agree with them, and so the	e 13	there's six things that you really want
14	is additional set of indications based on a	14	credibility of complement to have, but two I'm
15	correction to that. I apologize for that	15	going to focus on is it's not biased, that is
16	error. Nonetheless, the process is still the	16	that if you look at the results after you ve
17	same. What we re trying to get to is to Row	V 17	done your predictions with your full
18	o, and we get to a different Kow 8 when we	u0 18	and you look at the regults helf the time
19	unat correction. So we start with the	19	and you look at the results, half the time
$ _{21}^{20}$	through the gradibility weighting process for	$ ^{20}$	it's better and nam the time it's worse than
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	the provious one and then we're coing to d	лп [21 о 22	your prediction based on mose, but it's hotter
22	two things. One we want to reflect the rate		sometimes worse, but overall it's unbiased
23	changes that we not after that rate raview		The second piece is that it's accurate that
25	and then we want to annly a claims trend ar	d^{24}	it gives you a good reflection of what those
145	a channe we want to apply a channes uchd al		it gives you a good remeetion of what mose

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1	levels are. So the difference between	1	different weight. We just use that total
2	unbiased and accurate, unbiased just tells you	2	column, the weights we're using are the
3	the variance around what the level is. So you	3	premiums distributed at the top there. I just
4	can have two estimates that are unbiased; one	4	want to highlight in case somebody was
5	that swings quite far from it, and you have	5	wondering there was some sort of mistake
6	one that's narrow. The narrow one is more	6	because it's 153 in one place and it's 1525
7	accurate. They're both unbiased, they both go	7	in another, but it's just a weighting issue.
8	up and down the line, but the narrow one is	8	Okay, so under Row 9 then is the credibility
9	more accurate and we want one that is both	9	that we've assigned to the results, and you
10	unbiased and accurate. I don't believe, based	10	would go to Exhibit E-1 for that. I'm not
11	on the review of the experience, that either	11	going to ask us to go to E-1, but the other
12	of the proposed - either of the complements of	12	issue that was raised in the Oliver Wyman
13	credibility that are proposed are unbiased,	13	Report was that for third party liability, we
14	and I don't believe they're accurate with	14	moved from a credibility standard of 54.10, I
15	respect to - in relation to the experience	15	believe, down to 32.46, I think that's the
16	that the taxis have had for us over the last	16	right number. Both of them are based on a
17	ten years. Both of them suggest the loss cost	17	standard that's used in Canada of 1.082 claims
18	should be much lower than they have been.	18	gives you a certain probability of being
19	That is, either we've had 10 or 12 years of	19	within a certain level of comfort, that your
20	bad luck, or the current rates really aren't	20	claims count is going to be close to what
21	adequate, and that's not a good assumption to	21	you're hoping it would be. The multiplier
22	have. Both of them are showing levels that	22	that you use in relation to that 10. 82
23	are significant below. It's just that this	23	standard, I believe, is based on actual
24	one, in particular, for loss ratios in Row 14	24	judgment. There are ways of determining a
25	for third party liability, we start off at	25	multiplier. That's what was used historically
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1	93.8, and we would be in the 68 or 70, or	1	that our previous partner. Eckler, had done a
2	something like that if the rates were	2	study and they determined an estimated
3	adequate. So, obviously, if the higher one is	3	multiplier for, I believe, bodily injury to
4	biased - or not accurate because it's always	4	come up with the full credibility standard
5	below, and biased because it's always below, a	5	that was previously used. When I took over
6	lower one is even going to be worse. So	6	the process of the pricing, I made an actual
7	that's our position on the two complements of	7	judgment of application across all
8	credibility that are being proposed. We	8	jurisdictions for setting the full credibility
9	believe both are not great, but ours, we	9	standards that I feel comfortable with for
10	think, is more supported if you look for the	10	each individual coverage, and generally, I've
11	goal of being accurate and unbiased. So I	11	split the coverages into what I call "long
12	want to go back to C-1 then. So under Row 7,	12	tail" and "short tail", and the long tail
13	we have that loss ratio that we think is the	13	coverages I have at 2 times the 10.82, and for
14	underlying one. Then what we're going to use	14	the short tail, I have at 1 times the 10.82,
15	as our experience is the loss ratio we got	15	and it's based on my judgment and my
16	from D-1. In this case for third party	16	assessment of my comfort level with the amount
17	liability, we're bringing forward the	17	of credibility that we can apply for short
18	projected loss ratio of 143.8. Now the one we	18	tail and long tail.
19	were looking at and we focused most of our	19 (12:	45 P.M.)
20	attention on for in D-1 was the total, all	20	So Row 10 is just a credibility weighting then
21	coverages. This one is just focused on the	21	based on the credibility that I've assigned
22	third party liability, and, in fact, if you	22	for each of those based on claim counts. The
23	get over to the total, we see a total loss	23	determination of the amount of credibility is
24	ratio of experience at 152.3. That's	24	shown in E-1. I'm not going to go through
25	different than D-1 because you're using a	25	that exercise. That's just a straight

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1 calculation once you've determined your fu	ill 1	(October 31st, 2013 and the weights are driven
2 credibility and what you've determined you	ur 2	b	by the estimated durations required for the
3 claim counts are. Under Rows 11, 12, 13, and	nd 3	С	ash flows associated with the claims
4 14, our first two in this one here now we're	4	- p	bayments. As you can see in this chart and
5 projecting our loss ratios for indemnity. I	5	Ī	'll focus on column 3, the average maturity,
6 also want to include legal expenses here, and	d 6	Ċ	luration to maturity for our cash flows is
7 I want a discount. The discount rate you'll	7	a	round three years, so on average you're
8 see here is at 1.14, and I'll talk about that	8	b	between column 2 and column 3 when you're
9 in a little bit. So the first thing that we	9	1	ooking at yields and we use the risk free
10 do as discount factor - in fact, I'll go there	10	Ċ	letermination because under current capital
11 now. Let's go to F-1. It's on page 67 of the	11	r	equirements, if you move off of risk free in
12 report. This is another issue that was raised	12	У	your asset portfolio, then you have to put up
13 that -	13	С	apital to support the riskiness of your asset
14 CHAIRMAN:	14	C	choices, and we don't have a determination for
15 Q. We're at quarter to 1, Mr. Stamp.	15	t	hat, so we start off with risk free and
16 STAMP, Q.C.:	16	а	ssuming that there's no additional capital
17 Q. We can break right now or in a moment, i	it 17	r	equired to support the business, to support
18 doesn't matter. It's just as convenient to do	18	У	your selections of assets to support the cash
19 that right now if you prefer.	19	f	lows. And we're assuming that in this case,
20 CHAIRMAN:	20	t	he actual process is we gather up the premium
21 Q. We can break now?	21	f	rom, in this case the taxi drivers, we pay
22 STAMP, Q.C.:	22	1	mmediate expenses as we need them and then
23 Q. Yes.	23	t	he cash is handed to our membership, who then
24 CHAIRMAN:	24	C	an invest it any way they feel, but they are
25 Q. Okay.	25	C	obliged to give back the money as we need it
I	Page 94		Page 96
1 STAMP, Q.C.:	1	t	back to settle, ultimately settle the claims.
2 Q. And we are getting closer, Mr. Chairman	ı, 2	A	And through the process because we do no
3 Commissioners, to finishing on the Direct.	3	1	nclude a cost of capital in our rates for
4 CHAIRMAN:	4	t	axies in Newfoundland, it basically means
5 Q. We're getting closer.	5	t	hat there's no additional return in the
6 STAMP, Q.C.:	6	p	process for profit that would be handed to the
7 Q. Yes. Very close, I should say.	7	r	nembership, that is the premium that we gather
8 CHAIRMAN:	8	a	ind the investment income that is, fises on
9 Q. Yes, let us nope so. 10 (12.47 PM)	9	L L	ine premium is assumed to be sufficient to pay
10 (12.47 P.M.)	10	1 1	of an the claims and pay for the expenses,
(RECESS)	11	L r	numbership for their provision of capital to
12 (1.13 1.101) (RESUMED)	12	· 1.	upport the husiness And so when we're
$14 \qquad 0 Okay Mr Stamp I think we're back with w$	13	5 0	etting the rates we_it's a perspective
$14 \circ 0.0$ key, with Stamp, 1 timik we to back with y	14		exercise and we need to look at what we think
$16 ext{ O Yes}$ and we were going to exhibit F Mr	15	. a	are rates that you can get on new money going
17 Chairman Mr Doherty you wanted to ti	e 17	f	forward Liust wanted to highlight in
exhibit F in it refers back from exhibit C	18	ſ	columns 2 and column 3 there's a dramatic
19 is it not?	19	0	change in the yields that you could get at
20 MR. DOHERTY:	20	่ ล	round the time of the financial crisis. 2007.
A. Yes, so this is the derivation of our return	20	2	2008. So in column 3 you'll see the three to
22 assumption. Our return assumption is 1.14	4 22	f	ive year, up to 2007 they were generally
23 percent, it's derived through a weighting of	23	i	ncreasing up to 4.21 percent. These
yields of various durations of the risk free	24	s	tatistics are taken from the Canadian of
25 Government of Canada bonds available as	at 25	A	Actuaries Annual Report on Statistics and then

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1	they start to decline pretty rapidly down to	1	And the reason we show it as indemnity is	
2	2012 where they're down to 1.3. A little bit	2	because when we put it together, we're just	
3	further down on the page we show the current	3	multiplying it in there, so we end up with in	
4	vields that we used as the basis for our	4	the case of BL the credibility weighted loss	
5	determination the five year at that time was	5	ratio with indemnity when we discount it is	
6	1.52 the three year was 1.09 and so based on	6	114 percent When you put in this 3.7 percent	
	again our payment patterns we assumed a	7	additional costs associated with excess legal	
8	weighted average return of 1.29 there are	8	it gets up to 118 5 percent. We are going to	
0	investment expenses associated with it when	0	compare then that loss ratio projected loss	
10	you are using an intermediary to purchase the	10	ratio to the amounts that we believe we need	
11	bonds on your behalf and manage the portfolio	11	to cover off our costs so the first thing we	
12	we have that as 15 basis points, so it returns	12	would take into account is that we're not	
12	a net yield of 1.14. We do understand that	12	going to collect all the premium unfront	
13	through the Board's filing requirements there	14	There's going to be a delay in collecting the	
15	is a range that they find reasonable on the	15	premium and so we discount based on the cash	
15	vield I believe it's 2.8 to 4 percent. That	16	flows associated with the collection of	
17	would be another assumption that I would have	17	premium	
18	to put into my process and then not take		MP O C ·	
19	responsibility for it, but as I'm providing	19 0	Is that Row 15.	
20	guidance to management. I will come up with	20 MR	DOHERTY:	
21	indications based on the new money yield that	21 A	That is Row 15, correct. Fixed expenses are	
22	I think would be appropriate that you could	22	reflected in Row 16. The expense structures	
23	get in the time that we're projecting forward	23	and all the expenses are in exhibit G-1. I'm	
24	to and that's how we derived it. although	24	not going to take us there. I think they are	
25	management did recognize the filing	25	pretty straightforward and as I understand it,	
	Page 98		Page 100	
	requirements and the ranges associated with	1	there was no concern necessarily about any of	
2	that So we also provided for management an	2	our fixed expenses, other than the health care	
3	alternate indication using a 2.8 percent net	3	levy which we talked about earlier where we	
4	vield and the management's recommendations of	4	did not include and we feel it's appropriate	
5	proposed rate changes were based on that	5	not to include it because it's not an expense	
6	alternate indication that we provided to them.	6	that is due based on thefor the taxies. Row	
7	I would just emphasize that I don't believe in	7	17 is commissions and the commission rate is	
8	the current environment, you can get a risk	8	established in the Plan of Operation which is	
9	free portfolio put together that would	9	approved by the superintendent. The	
10	generate a 2.8 percent return and I don't	10	discounted variable expenses includes premium	
11	anticipate that that's going to change between	11	tax that a servicing carrier non claims fees,	
12	now and when the new rates would be effective.	12	we separate out the claims fees from the non-	
13	So if we could go back to C-1 then. So all of	13	claims fees. The premium tax is as per the	
14	our work to date or all the discussion so far	14	government requirement. Servicing carrier	
15	has really been on just indemnity. We do have	15	fees are established in the plan of operation.	
16	what's referred to as excess legal. This is	16	Again as approved by the superintendent and	
17	claims adjudication costs that the servicing	17	have the weight of law, I suppose, in behind	
18	carriers are allowed to get compensated for	18	it. Row 19 is the, what we refer to as the	
19	outside of the fee structure that we have in	19	initial claims expense fee. Claims expense	
20	place for them. We have an estimate for that.	20	fee that we pay to the servicing carrier is	
21	That estimate of 3.7 is in relation to the	21	based on a sliding scale, so it depends on	
22	indemnity, it's not in relation to premiums,	22	what the loss ratio turns out to be and	
23	so if you're looking at that and trying to	23	there's a range that we pay them on. So we	
24	determine what the ratio is to premium, you	24	start off with a certain level, but then we	
25	have to make an adjustment to reflect that.	25	will adjust it based on what the loss ratio	

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1	is. If the loss ratio is lower than a certain	C	1	MR. DOHERTY:	C C	
2	level, we will claw back some of the fees we	e	2	A. I did, so th	at's shown in alternate C-1, it's	
3	pay them. If it's above a certain level, we		3	on page 73	3.	
4	will pay them more and the idea is to in som	e	4	STAMP, Q.C.:		
5	way, I guess, try and keep the level of		5	Q. IC1.		
6	compensation somehow consistent with the	work	6	MR. DOHERTY:		
7	effort associated with adjudicating the		7	A. IC1, so in t	his case if we go to Row 29, all	
8	claims. And then finally in Row 21, here w	e	8	of the wor	rk here that is on a 2.8 percent	
9	would have, really it's the return from		9	return and	the indication in Row 29 for third	
10	underwriting that would be required on the	;	10	party liabi	lity is 67.3. And in the case of	
11	basis consistent with our return assumptions.		11	this also sl	nows what management has proposed	
12	So the rate indication then is a straight		12	and that's	in Row 34. They had proposed to	
13	calculation, that's done in, shown in Row 22	2	13	cap the rat	e change for third party liability	
14	and it showed in Row 22 we're focused on t	he	14	at 50 perce	ent, so instead of taking the 67. 3	
15	Board's original target, which is a 12 percent	t	15	that would	d be indicated if you had a 2. 8	
16	after tax return on equity, assuming a capital		16	percent ref	turn, they proposed a 50 percent	
17	level that's consistent with a two to one		17	rate increa	se.	
18	premium to capital ratio, so if we were to		18	STAMP, Q.C.:		
19	include a profit provision that is the target		19	Q. Is there an	ything further, Mr. Doherty, that	
20	for the Board of Directors Facility		20	we need to	add from exhibit C?	
21	Association for a third party liability, the		21	MR. DOHERTY:		
22	rates would need to go up by 95.6 percent.		22	A. No, I don'	t believe so. I have just focused	
23	However we recognize that a cost of capital	is	23	on the thir	d party liability, it's obviously a	
24	not allowed for Facility Association rates and	d	24	total over	all rate level change that's	
25	so we have an alternate set of assumptions		25	determine	d based on the weights by coverage.	
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1	where we reflect that alternate rate change		1	STAMP, Q.C.:		
2	basis.		2	Q. Is there anyt	hing else you need to add then,	
3	STAMP, Q.C.:		3	Mr. Doherty	?	
4	Q. To 29?		4	MR. DOHERTY:		
5	MR. DOHERTY:		5	A. No, I'm finis	shed, thank you.	
6	A. That's Row 29. And so for third party		6	STAMP, Q.C.:		
7	liability then under that basis where you do		7	Q. We're done,	Mr. Chairman.	
8	not have a return being generated for the		8	CHAIRMAN:		
9	capital provider, all of the cash flows then		9	Q. Thank you, s	sir. I guess, Mr. Johnson, it's	
10	are really, including the investment income i	. S	10	now your tur	'n.	
11	used to pay for expenses and pay for claims	,	11	JOHNSON, Q.C.:		
12	that's reflected in the indication shown in		12	Q. Yes, Mr. Ch	air.	
13	Row 29 and for third party liability, that's		13	MR. SHAWN DOHER	TY, CROSS-EXAMINATION BY TOM JOHNSON, Q.C.	
14	75.4 percent.		14	JOHNSON, Q.C.:		
15	STAMP, Q.C.:		15	Q. Mr. Doherty	, just to start off talking about	
16	Q. That's the indicated rate.		16	the trending	model that you've developed at	
17	MR. DOHERTY:		17	the Facility	Association. Your actuarial	
18	A. That's the indicated rate change to get a zero)	18	report indica	tes that you've developed a new	
19	cost of capital return, so zero return on		19	trending mod	lel internally at the FA with the	
20	premium, that's just to pay for all the		20	help from a	n external actuarial service	
21	expenses, assuming that you're going to get	a	21	provider, and	how new a trending model is	
22	1.14 percent return on investment income.		22	that, Mr. Do	herty?	
23	STAMP, Q.C.:		23	MR. DOHERTY:		
24	Q. And did you also do an indicator rate with		24	A. We first buil	t the initial, I guess, version	
25	2.8?		25	of it in 201	1 and then we worked on it	

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1 throughout 2011, 2012, implemented the us	se 1	A. Yes.
2 really in 2013.	2 J(DHNSON, O.C.:
3 JOHNSON, O.C.:	3	O. Okay, and so what were the departures from the
4 Q. So in terms of when it was put into use, in	4	previous approach that were ushered in with
5 terms of regulatory filings, it would have	5	this new model?
6 been 2013?	6 N	IR. DOHERTY:
7 MR. DOHERTY:	7	A. Regression is regression, so I mean, those are
8 A. I think there was some regulatory filings that	8	iust calculations. I think where I would
9 we used it in in support of for 2012, but I	9	suggest I find this model a bit superior is
10 can't recall exactly.	10	it's easier to create different periods and
11 JOHNSON, O.C.:	11	treat it as one complete model. I believe.
12 0. Okay, and this involved a new software	12	and I'm not absolutely certain on this, but I
13 nackage?	13	believe Eckler's previous model if you wanted
14 MR DOHERTY	14	to deal with a product reform for instance
15 A No it's based on Excel	15	you would have to adjust the data as opposed
16 JOHNSON O.C.	16	to our model where you don't have to adjust
17 O Based on Excel	17	the data you can use the scale to move the
18 MR DOHFRTY	18	stuff around But they did use multiple
19 A Yes	19	periods they did have the ability to use
20 JOHNSON OC	20	multiple periods and I think they also used
21 0 Okay and was the new trending model was	it 21	unemployment as a potential variable as well
22 used last year in your Facility Association's	22 (1·30 P M)
22 as the first form of the	22 (1	OHNSON OC
24 MR DOHERTY:	23 50	O The external actuarial service provider that
25 A. No. the one prepared by Eckler, no. they had	1 25	was, helped you develop, was this Eckler?
	ro 106	Dogo 109
ra their own internal model	ge 100	rage 100
1 then own internal model.		IK. DOHERTY:
2 JOHNSON, Q.C.:		A. No, it was Erlist & Tourig.
3 Q. Okay. And you re aware that there's been a	$1 \qquad 5 \qquad 1$	O It was Ernst & Young alkay
4 couple of decisions from the Nova Scotta Bo		Q. It was Effist & Tourig, okay.
5 that have been identified, you ve seen those		IK. DOHEKIY:
6 two decisions. There was an October 25rd		A. The linual one was based on a model that KPMG
/ decision naving to do with miscentaneous	/	We modified it and then continued to modify it
8 Venicies in Nova Scolla.	8	we modified it and then continued to modify it
9 MR. DOHERTY:	9	to make it easier to pull data in from the
10 A. Fes.	10	to work through the analysis
11 JOHNSON, Q.C.:		to work through the analysis piece.
12 Q. And for facinity and I think a September 22nd		DHNSON, Q.C.:
13 decision from the Nova Scotia Board, you v	7e 13	Q. I understand that there is a fairly
14 seen that one in relation to private	14	significant difference in this application to
15 passenger.	15	and last year's taxi filing having to do with
16 MR. DOHERTY:	16	the use of the up deriving constraints date
17 A. Yes.	17	the use of the underlying severity data.
18 JOHNSON, Q.C.:	18 M	
19 Q. For those mings was the new model used?	19	A. Tes.
20 MR. DOHERTY:	20 JC	DHNSON, Q.C.:
21 A. Ies.	$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	Q. And could you outline to us what the
22 JUHINSUN, U.C.:	k_{0}	unterence is between the two applications?
25 Q. Okay, and what were the departures, and I ta it this model was shout tranding primarily?	NC 23 N	IN. DUFIER II:
24 It uns model was about trending primarily?	24	when they did their modelling for
	23	when they are then modelling 101

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	1 Newfoundland, they did private passenger fi	rst 1	1	question asked in 4(a) is explain why FA		
	2 and they did frequency and severity. They	. 2	2	considers the private passenger severity		
	3 determined models that they thought wer	e 3	3	trends relevant to the taxi experience, but		
	4 appropriate for both of those two metrics.	4	1	commercial experience relevant to the		
	5 When they went to do commercial, they fe	lt 5	5	frequency trend? And if you could just go		
	6 comfortable with the model they were able	to e	5	over to Facility's answer last vear for (a).		
	7 generate based on frequency, but for severity	v	7	it states. "As mentioned in the filing		
	8 because of the level of volatility, they		3	document trend assumptions for taxies are		
	9 didn't feel comfortable with the parameter		- 	based on an analysis of Newfoundland and		
	10 that was being produced in their modelling	10)	Labrador commercial vehicles' experience. In		
	11 So instead, they used the severity trend that	. 11	1	the case of the bodily injury severity trend.		
	12 came out of the private passenger	12	,	no satisfactory statistically significant		
	13 JOHNSON O.C.	12	2	model could be found based on commercial		
	14 O So would you confirm that in last year's	14	1	vehicles' data so the private passenger		
	15 Facility's Application that Facility was of	14	5	selected bodily injury severity trend model		
	the view that the bodily injury severityfor	16	5	was adopted " And can you recall now that		
	17 the bodily injury severity trend there was no) 17	7	being the case for last year?		
	18 satisfactory statistically significant model	15	, MD I	OHERTV.		
	10 which could be found based on the commer		λ	I take the answer as accurate, yes		
	¹⁵ which could be found based on the commer		γ A.	SON OC:		
	20 venicles data and so therefore, the private 21 passenger was used. Could you confirm that	$\frac{1}{12}$		Okay and so this application, that was filed		
	21 passenger was used. Could you commit tha		, Q.	by Eacility is not that long ago and what has		
	22 MK. DOTEKTT:		2	happened over that period of time to go from a		
	25 A. I can't commit the exact mought processes	2.	1	situation where Eacility didn't find the		
	but their end result was they used the private		+	commercial experience statistically		
	25 Sut then end result was they used the private	110	, 			
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	passenger trend.		1	significant of remable enough to use but you		
	2 JOHNSON, Q.C.:		2 2 MD T	call use it now ?		
	Departy if Leould address your or ask you t		5 WIK. I	I baliava and L could be wrong in this but I		
	4 Donerty, if I could address your of ask you t		+ A.	think if you look at the private passenger		
	of information. No. 0) <	they actually selected the severity trend over		
	7 MS CLYNNI) 7	a long period. I think it was. I think it was		
	/ MS. GLINN:	4 k	/	a long period, I think it was, I think it was		
	8 Q. Just one second, that one hash t been entered		5	quite a period. When we did our analysis, we		
		10	/	post 2004 and through our testing, we did find		
	10 JOHNSON, Q.C.:)	that there was a difference in the trend and		
	11 Q. On, 1 m sorry, okay.		1	that there was a difference in the trend and		
	12 MS. GLYNN:	12	2	acult was statistically significant and we		
	13 Q. So that would be the responses to Ow 1, Information Desured dated Enhancement (th	1.				
	14 Information Request dated February out.	14	I JOHN	SON, Q.C.:		
	15 JOHNSON, Q.C.:	1:	5 Q.	so in the previous ining, there was no such		
	16 Q. Yes, that's correct, Ms. Glynn.	10				
	17 MS. GLYNN:		/ MR. I	DOHERTY:		
	18 Q. We II enter that on the record.	18	3 A.	Not to my knowledge, no, and 1 m not sure		
	19 JOHNSON, Q.C.:	19	1	ther live not sure		
	20 Q. Okay, mank you. If you could bring up pag	e 20		mai, 1 m noi sure.		
	21 J.			DUN, U.C.:		
	22 MS. GLYNN:		2 Q.	And now longand that was Eckler Partners,		
	25 Q. PUB document, No. 9.	23) 4) (T) -	was man wir. reny?		
	24 JOHNSON, Q.C.:	24	+ MR. I	DOHERTY:		
	25 Q. If you could go to question No. 4, the	25	o A.	I nat s correct, it was Eckler Partners, yes.		

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1	JOHNSON, Q.C.:	0 -	1	1 there was a number of different views and
2	0. Yes, okay. And how long have they been yo	our	2	2 interpretations put forward that ultimately
3	external actuaries, Facility's?		3	3 you have to choose what you're comfortable
4	MR. DOHERTY:		4	4 with?
5	A. I'm not exactly sure exactly how long they		5	5 MR. DOHERTY:
6	were.		6	6 A. Yes.
7	JOHNSON, Q.C.:		7	7 JOHNSON, Q.C.:
8	O. More than ten years?		8	8 O. Okay. And are actuaries something akin to
9	MR. DOHERTY:		9	9 economists that you ask, you know, three or
10	A. I believe it's more than ten years, but I'm		10	0 four economists, you'd get three or four
11	not certain on that.		11	1 different view points, interpretations of
12	JOHNSON, O.C.:		12	2 data?
13	0. Mr. Doherty, you testified vesterday that		13	3 MR. DOHERTY:
14	there were a number of people in your		14	4 A. Yes.
15	organization and outside the Facility		15	5 JOHNSON, O.C.:
16	organization who have input on the trend		16	6 0. Do you find the same in the actuarial world?
17	analysis and you indicate that there was work	c l	17	7 MR. DOHERTY:
18	done and input by an internal analyst and the	n	18	8 A Yes.
19	it came to you and then Ernst & Young wou	ıld	19	9 JOHNSON, O.C.:
20	also come back with views on the selections	s	20	0 0. This application, as I understand it, was
$ _{21}^{-0}$	and as you put it, they may throw in some		21	authorized to be filed by your Board of
22	options of their own and then you come up w	vith	22	2 Director on the 6th of March of 2014.
$ _{23}^{}$	management's recommended trend, and ther	n it	23	3 MR. DOHERTY:
$ _{24}^{-2}$	goes to your members' actuary. I take it those	e	24	4 A Yes.
25	would be your service provider's actuaries?		25	5 JOHNSON O.C.:
_	Ba	go 114	-	Page 116
1	ra MB DOLIEDTV.	ge 114	1	rage 110
	MR. DOHERTT:	n	1 2	the filing had, gotten underway to most that
	of sonior actuarias of the membership itself	.p	2	2 Moreh 6th filing?
	that act as an advisory committee to		3 4	4 MD DOLIEDTV.
	management		4	4 MR. DOHERTT:
			5	A. I believe we statted in September, 1 in hot
	0 O leave and so there would be a number of the		7	 absolutelyour general process is the data bacomes available, some time in June, during
	Q. Okay; and so mere would be a number of mo	150	/ 0	the summer we do the trend analysis piece
	MB DOHEDTV.		0	Typically in either July or August we start
10	A Vas I baliava at the time I baliava there		9	with Ontario and then we go through all the
	was top, but there may have been twelve		10	iurisdictions. We do all classes of business
	actuaries on the committee at that time		11	for a jurisdiction. Generally one per month
12			12	2 for a jurisdiction. Ocherany one per month,
13	O Okay and so that's the process that the		13	the paidbhourhood of 20 or 25 per month over a
14	application that the Board has in front of it		14	4 the heighbourhood of 20 of 25 per month over a
15	in this filing, that's the process, that was		15	5 SIX-IIIOIIII period.
10	followed here in this case?		10	o JOHNSON, Q.C.:
1/	Informed here in this case?		1/	Q. And at any point in that process, did you
10	A Ves but the ultimate selection is my work		1ð 10	the Board's approved trend rates as supported
19	A. 1 cs, but the utilitate selection is my work.		19	by their consulting actuarias Oliver Wymer
$ _{21}^{20}$	O But the ultimate selection		20 21	u oy men consuming actuaries, Oliver wyman
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$			21	and published to the insulers in the Piovince?
$ _{22}^{22}$	MR. DUHERII:		22	2 WIK, DUHEKIY: 2 A As part of the transfing process, we do try
	A. I take responsibility for the work, yes.		23 24	A. As part of the uchaning process, we do uy,
$ _{2^{-2}}^{2^{-4}}$	O That's right and so you sign off on it. So		24 25	4 Inter 1 did here, not so filuen to repricate the
123	Q. That s fight and so you sign off off it. So		23	analysis, our just look at, say the minus 1.5

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1	and fit it on the data to see what it looks		1	MR. DOHERTY	:	
2	like, but there is no model that I believe was		2	A. No.		
3	consistent with that as far as I recall, but		3	JOHNSON, O.C	:	
4	I'm not sure.		4	O. How ma	ny member insurers would Facility have,	
5	JOHNSON, Q.C.:		5	Mr. Doh	erty?	
6	O. So did you go through an analysis of the		6	MR. DOHERTY	:	
7	Board's -		7	A. Actual n	umber of members?	
8	MR. DOHERTY:		8	JOHNSON, O.C	:	
9	A. Trying to replicate that approach? No.		9	O. Like inst	arer members, insurance companies that	
10	JOHNSON, Q.C.:	1	0	participa	te through Facility?	
11	O. You didn't?	1	1	MR. DOHERTY	:	
12	MR. DOHERTY:	1	2	A. I don't 1	now that number off the top of my	
13	A. No.	1	3	head, I a	pologize.	
14	JOHNSON, Q.C.:	1	4	JOHNSON, O.C	:	
15	Q. You've only done that here during this	1	5	Q. Okay. H	lave you made any inquiries from the	
16	hearing, I take it?	1	6	insurers	who are members, who are affiliates	
17	MR. DOHERTY:	1	7	of Facili	y, as to which of these companies	
18	A. Correct.	1	8	utilize tl	ne Board's guidelines in their	
19	JOHNSON, Q.C.:	1	9	filings to	the Board for their automobile	
20	Q. Yesterday you indicated that you couldn't tak	te 2	0	insuranc	e rates?	
21	responsibility for or ownership of actuarial	2	1	MR. DOHERTY	:	
22	work that's underlying the Board's directives	, 2	2	A. No.		
23	do you recall that statement?	2	3	JOHNSON, Q.C	:	
24	MR. DOHERTY:	2	4	Q. Have yo	u made any inquiries from any other	
25	A. Yes.	2	:5	insurers,	besides your members, as to the	
	Pas	ge 118			Page 120	
1	JOHNSON, Q.C.:		1	usage or	utilization of the Board's approved	
2	O. And you indicated that there was not enough	n i	2	trend rat	es?	
3	information provided for you to rely on the		3	MR. DOHERTY	:	
4	trends.		4	A. No.		
5	MR. DOHERTY:		5	(1:15 P.M.)		
6	A. Correct.		6	JOHNSON, Q.C	:	
7	JOHNSON, Q.C.:		7	Q. Mr. Dol	erty, you spoke a bit colourfully	
8	Q. But I take it now, for the sake of clarity,		8	yesterday	y of what I took to be a	
9	that you are not saying that Oliver Wyman's	s !	9	character	rization of how you saw Oliver Wyman's	
10	work is unreasonable, but rather a fair	1	0	work and	l you indicated that you were speaking,	
11	interpretation is that you're saying that you	1	1	as you p	at it, as somebody who built actuarial	
12	would do it differently, would that be	1	2	practices	and you said, "I could have my guys	
13	correct?	1	3	build thi	s process, it would take a couple of	
14	MR. DOHERTY:	1	4	days, I'n	n sure our analysis would take 15 or	
15	A. I certainly do it differently, yes.	1	5	20 minut	es to do because it's very mechanical.	
16	JOHNSON, Q.C.:	1	6	You ide	ntify the outliers upfront, you do	
17	Q. Okay. And is there anything in the Oliver	1	7	forward	regressions, you get the results out	
18	Wyman analysis of trend rates that would be	e 1	8	and aver	age it against the one you had	
19	contrary to actuarial standards of practice?	1	9	before."	Do you recall making that statement?	
20	MR. DOHERTY:	2	0	MR. DOHERTY	:	
21	A. Not to my knowledge.	2	1	A. Absolute	ely, yes.	
22	JOHNSON, Q.C.:	2	.2	JOHNSON, Q.C	:	
23	Q. Is here anything in FA's analysis that would	2	3	Q. Do you	know, Mr. Doherty, whether this	
24	be contrary to actuarial standards of	2	4	mechani	cal description applies to what Oliver	
25	practice?	2	5	Wyman	actually did in coming up with their	

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1	recommendations?	C	1	MF	R. DOHERTY:		
2	MR. DOHERTY:		2	2	A. Yeah, I can see that argument, yes.		
3	A. No, based on the report that's my		3	JO	DHNSON, Q.C.:		
4	understanding of the process.		4	Ļ	Q. And is there anything wrong with giving more		
5	JOHNSON, Q.C.:		5	ó	weight to more recent data as an exercise of		
6	Q. Okay, all right. And I take it that you did		6	j	actuarial judgment?		
7	not, throughout this process, ask Oliver Wy	man	7	MF	R. DOHERTY:		
8	for any of its background data or work		8	5	A. It depends on the application.		
9	processes or thought processes as to how th	ney	9	JO	DHNSON, Q.C.:		
10	arrived at their report?		10)	Q. Don't your trend selections rely more on the		
11	MR. DOHERTY:		11		latest eight years, for instance, as opposed		
12	A. No.		12	2	to the earlier 12 years of the 20 year		
13	JOHNSON, Q.C.:		13	;	regression period?		
14	Q. But at the end of the day, yourself, Ms.		14	MF	R. DOHERTY:		
15	Elliott, Oliver Wyman, her firm, you're bo	oth	15	í.	A. Only to the extent that we focused our		
16	trained actuaries and I take it you're both		16	j	attention on that because our indication was		
17	applying actuarial judgment, correct?		17	i	basedthe weight we were giving it, our		
18	MR. DOHERTY:		18	5	indication was focused on the most recent five		
19	A. Correct.		19)	years. If we were going to use more years, we		
20	JOHNSON, Q.C.:		20)	would spend more time making sure that our		
21	Q. And at the end of the day, you are using		21		trend analysis reflected the period we		
22	trending models that you each deem to b	be	22	:	intended to use in the experience for our		
23	appropriate on practically the same data, w	ith	23	i	indication.		
24	the exception of whether it includes		24	JO	DHNSON, Q.C.:		
25	adjustment expenses over indemnity.		25	;	Q. But at the end of the day, you do end up		
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1	MR. DOHERTY:		1		giving more weight to the more recent		
2	A. I can't speak for Ms. Elliott, but that's		2		experience.		
3	certainly the case for me.		3	MF	R. DOHERTY:		
4	JOHNSON, Q.C.:		4	,	A. I wouldn't characterize it that way, no.		
5	Q. Okay, and Mr. Doherty, yesterday you we	ere I	5	JO	DHNSON, Q.C.:		
6	think somewhat critical of Oliver Wyma	n's	6	j	Q. Well you're not giving any weight, I take it,		
7	report for considering both a five and ten-		7	1	or are you, to the first 12 years of the 20		
8	year trend on the basis that on averaging		8	í	year analysis period?		
9	those, on the basis that you considered to be	e,	9	' MF	R. DOHERTY:		
10	as you termed it, resampling. And you reca	all	10	1 .	A. With the trend analysis?		
			11	JOI	DHNSON, Q.C.:		
$ _{12}^{12}$	MR. DOHERTT:		12	, 	Q. ICS.		
13			13	IVIF	A I'm not giving any particular weight to any		
14	0 And Mr. Doherty while you refer to it a	c	14	· .	narticular period. I'm doing a regression on		
16	resampling in essence isn't it merely a merely	anc	15	ŝ	all of it I did spend more time on making		
17	of giving more weight to the more recent d	ata?	17	,	sure Lunderstood what was happening in the		
18	MR. DOHERTY:	aca :	18	5	more recent eight years than I did, as I		
19	A. I'm sure I would characterize it that way.		19)	mentioned earlier, on the first 12 years. I		
20	JOHNSON, Q.C.:		20)	could have done or had my analysts do more		
21	Q. No, but would you agree with me that the	ne	21		analysis on that to get a better fit for that		
22	result of using the five year and taking an		22	5	earlier 12-year period. We did not do that.		
23	average of that subset of five year data		23	i	So I guess in terms of weight, in terms of our		
24	within the ten years, it has the effect of		24	÷	analytical focus, it was on the more recent		
25	giving more weight to the recent data?		25	I	years because that's what was going to be used		

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1	to take our ten years of accident data to a		1	particular event or series of events that		
2	projected level, but I wouldn't say I gave	2	2	generated this change and we thought that that		
3	more weight to that than I gave to the earlie	er 3	3	situation while it still existed over this		
4	years. We did have more analytical focus	on 2	4	eight-year period has now changed into		
5	those periods though.	4	5	something else and therefore we would revert		
6	JOHNSON, Q.C.:	6	6	back to a trend like we had before, it would		
7	0. And in terms of your the more analytical fo	ocus 7	7	be important. We don't see that as something.		
8	being given to the '04 period. I mean, you'	re 8	8	We're not aware of anything that would cause		
9	essentially looking at the eight years and in	ç	9	any seismic change in our view from our		
10	one of Ms. Elliott's models, she's looking a	at 10	0	current eight-year period going forward, which		
11	a ten-vear period. I mean, is that what we'r	e 11	1	is why we used that same trend from the eight-		
12	really down to? Like you know, it must be	12	2	vear period to continue on. If we felt that		
13	it can't be ten. It's got to be eight. I	13	3	something was going to change, then we would		
14	mean, can reasonable people disagree as	to 14	4	reflect that in the future period.		
15	whether it's eight or ten?	15	5 JC	JOHNSON, O.C.:		
16	MR. DOHERTY:	16	6	O. Did you have input in Facility's last filing.		
17	A. Absolutely. I think that it's absolutely fine	17	7	last year's Taxis filing? I presume you would		
18	to look at the data. You all can look at	18	8	have.		
19	different the same data and then identify	19	9 M	MR. DOHERTY:		
20	different periods where you think trends ha	ve 20	0	A. No. I well, only to the extent that		
21	changed. I'm not certain as I understand th	ie 21	1	management looks at the results, discusses it		
22	analysis done by Oliver Wyman that that	was 22	2	with the actuary and then management makes a		
23	the approach that they've taken because	e 23	3	determination on what proposal they want.		
24	they've done overlapping periods whereas	we've 24	4 JC	JOHNSON, Q.C.:		
25	when we do the analysis, we don't overl	ap 25	5	Q. But what role were you playing last year then		
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1	periods. We put them all together that put	s 1	1	when that when Facility's application got	Ŭ	
2	the pieces together but not in a way that		2	filed for the Taxi filing?		
3	overlaps. If we want to look at different		- 3 M	MR. DOHERTY:		
4	periods, we would do a different model a	nd 2	4	A. I was in the role of discussing with Eckler		
5	once we have a different model, then w	e	5	the results of their trend analysis for		
6	compare the two models to see which one	e we	6	discussion on what we take forward to the		
7	thought best described the data.	5	7	actuarial committee. I was in the discussion		
8	JOHNSON, Q.C.:	8	8	with the actuarial committee with respect to		
9	Q. Is it important at all you know, you put a	, ç	9	their final selections of trends. I discussed		
10	fair bit of significance on something	1(0	with Eckler the results of their indication		
11	happening in '04. Is it but you haven't	11	1	process with respect to Taxis. I discussed		
12	really investigated what is causing it. You	12	2	with management the options that were		
13	just observed something -	13	3	available to them on how they could apply for		
14	MR. DOHERTY:	14	4	rate changes, if they should apply for rate		
15	A. Correct.	15	5	changes, and a determination was made in the		
16	JOHNSON, Q.C.:	16	6	application, but I did not strike any of the		
17	Q. But from an actuarial standpoint and an	ı 17	7	assumptions. I do not take ownership of that.		
18	analytical standpoint, is it important to get	18	8	That was Mr. Pelley's work.		
19	to the bottom of what brought about wh	at 19	9 JC	JOHNSON, Q.C.:		
20	you're perceiving to be a change in '04?	20	0	Q. Okay. What title did you hold when that		
21	MR. DOHERTY:	21	1	application was filed with the Board last		
22	A. It would be to the extent that we thought	22	2	year?		
23	something had happened there that could	be 23	3 M	MR. DOHERTY:		
24	replicated some time in the future. So, for	24	4	A. The same position I have now, Senior Vice-		
25	instance, if we thought that there was a	25	5	President of Actuarial and CFO.		

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1	JOHNSON, Q.C.:	0	1	Q. Well, I mean, we are indeed looking at		
2	Q. There's been discussion regarding the	e	2	commercial vehicle experience.		
3	identification and then removal of outlier	s	3 N	MR. DOHERTY:		
4	from data and is it your suggestion, Mr		4	A. We are.		
5	Doherty, that an actuary is never able to)	5 J	JOHNSON, Q.C.:		
6	reasonably identify and remove outlier	s	6	Q. In Newfoundland. So, we're looking at the		
7	without a great deal of statistical analysis?		7	same experience?		
8	Is that what you're suggesting?		8 N	MR. DOHERTY:		
9	MR. DOHERTY:		9	A. Yes.		
10	A. I would be challenged to understand how	you	10 J	JOHNSON, Q.C.:		
11	can make a determination that I believe in	the	11	Q. Okay. As of December 31st, 2012?		
12	words of Oliver Wyman's report exclude a	a data	12 N	MR. DOHERTY:		
13	point because it's a statistical outlier if		13	A. Yes.		
14	you haven't done some sort of statistica	1	14 J	JOHNSON, Q.C.:		
15	analysis to determine that it is an outlier.		15	Q. So, you would confirm with me or confirm to us		
16	JOHNSON, Q.C.:		16	that the differences in the trend selections		
17	Q. So for you, I guess the answer is that an	L	17	are due to actuarial judgment rather than to		
18	actuary would never be able to identify a	nd	18	differences in the historical experience?		
19	remove an outlier without going through	the	19 N	MR. DOHERTY:		
20	examination you discussed yesterday?	,	20	A. There may be some differences in the		
21	MR. DOHERTY:	1	21	historical experience. The claim counts are		
22	A. I would find it challenging to understan	d 2	22	based on our assessment of the claim counts.		
23	that, but it doesn't mean that they couldn'	t	23	They are slightly different than the Oliver		
24	do it. I would just be challenged. I would	1 1	24	Wyman ones. We use indemnity only. They're		
25	just be challenged to understand how they	came 2	25	using indemnity and expense. So I don't know		
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1	to the determination that it was an outlier		1	to what degree those two things would drive		
2	particularly if you're saying it's a		2	any change. I believe that if I did my		
3	statistical outlier as I believe it is		3	analysis using the exact same data as Ms.		
4	described in Oliver Wyman's report.		4	Elliott there would still be differences. I		
5	JOHNSON, Q.C.:		5	don't I can't tell you the degree of		
6	Q. But then you don't have an insight as to w	hat	6	difference, if it would be larger or smaller		
7	reasons they chose for excluding data poir	its?	7	than what they are now.		
8	MR. DOHERTY:		8 J	JOHNSON, Q.C.:		
9	A. Other than how they describe them. The	ney	9	Q. But there's no I think in your report, the		
10	described highs and lows based on percent	ages.	10	way you put it in terms of your non-inclusion		
11	I do not determine that to be a statistical		11	of adjustment expense and just using indemnity		
12	outlier, but maybe they have other statistic	al	12	and Oliver Wyman's inclusion of those expenses		
13	tests. I struggle with, if it's a statistical		13	is that you put it such that you have a		
14	test, how can you apply it before you app	ly	14	suspicion that there may be an impact arising		
15	your analysis.		15	from the inclusion or exclusion.		
16	JOHNSON, Q.C.:		16 N	MR. DOHERTY:		
17	Q. And there's obviously a major differen	ce	17	A. I believe there may be, yes.		
18	between the trends rates that Oliver Wyr	nan	18 J	JOHNSON, Q.C.:		
19	Tinds reasonable and the Board has appro	vea	19	Q. But there s no evidence in your report that		
$ ^{20}$	and what Facility has put forward and just	ιΟ [2	20	provides guidance one way or the other on		
$\begin{vmatrix} 21 \\ 22 \end{vmatrix}$	be clear, inere s no question that we're not	[21			
$ ^{22}_{22}$	- we are all looking at the same data?		22 N	MK. DUHERTY:		
$ ^{23}_{24}$	MIR. DUHERTI:		23 24 T			
$\begin{vmatrix} 24 \\ 25 \end{vmatrix}$	A. INO, WE ALE HOL DOOKING AT THE SAILE DATA.		∠4 J 25	O Just a suspicion?		
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1 MR. DOHERTY:	1 JOH	NSON, Q.C.:	
2 A. It's just a suspicion.	2 Q	And Oliver Wyman has indicated in their	
3 JOHNSON, Q.C.:	3	report, as you're aware and you've alluded to,	
4 Q. And it's not something that you have	4	that in their opinion using a 20-year period	
5 investigated?	5	is too long to serve as a basis for selecting	
6 MR. DOHERTY:	6	trend rates that apply to the '08 to 2012	
7 A. No.	7	experience period. You saw what they said in	
8 JOHNSON, Q.C.:	8	their report in that regard?	
9 Q. So in terms of this overarching concept o	f 9 MR.	DOHERTY:	
10 actuarial judgment in the trendsetting	10 A	. Yes, I did see that, yes.	
11 business, first of all, selecting loss trend	11 JOH	NSON, Q.C.:	
12 rates, that's clearly a matter of actuarial	12 Q	And what's your comment about the observation	
13 judgment?	13	that, you know, that's a bit of a long period	
14 MR. DOHERTY:	14	to be looking over in order to provide useful	
15 A. Yes.	15	guidance on selecting trend rates?	
16 JOHNSON, Q.C.:	16 MR.	DOHERTY:	
17 Q. And I take it whether to reflect seasonality	17 A	. This came up in several of the questions, both	
18 would be an exercise of actuarial judgment	? 18	Oliver Wyman. I believe your group also had	
19 MR. DOHERTY:	19	that sort of question. My comment is that I	
20 A. Yeah.	20	can exclude all those earlier periods. I will	
21 JOHNSON, Q.C.:	21	get the same trend rate on that eight-year	
22 Q. And whether to exclude certain historical d	ata 22	period if I exclude the earlier 12 years. I'm	
23 points would be an exercise of actuarial	23	not changing the slope of the line that I	
24 judgment?	24	picked after that. The reason that we use a	
25 MR. DOHERTY:	25	20-year period is because if there is one	
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1 A. Yes.	1	trend over that 20-year period, you're going	
2 (2:00 P.M.)	2	to get a better estimate of that trend if you	
3 JOHNSON, O.C.:	3	use all 40 data points as opposed to using	
4 0. And whether to give less weight to certai	n 4	only the most recent 16 or 20 or 10 data	
5 data points than others that would be an	5	points That's the nature of the statistical	
6 exercise of actuarial judgment?	6	process that we go through. Using a 20-year	
7 MR. DOHERTY:	7	period allows us not only to identify through	
8 A. Yes.	8	statistical analysis areas where or periods	
9 JOHNSON, O.C.:	9	where potential trend rates have changed over	
10 0. And how many years of history you analy	vze. 10	that period, it also at times gives us insight	
11 that similarly would be an exercise of	11	into our ability to identify where things are	
12 actuarial judgment?	12	changing and test for those. If you have a	
13 MR. DOHERTY:	13	narrow view that you're only going to look at	
14 A. Yes.	14	in my opinion, look at ten-year periods.	
15 JOHNSON, O.C.:	15	the next time your last period drops off and	
16 0. I note that you've indicated that you use a	16	you got a new data period, if that earlier	
17 regression analysis of industry commerci	al 17	period now if there was a change in period	
18 vehicle expense over a 20-year period, fro	m 18	that was five years and five years, as you	
19 1993 to 2012. Is that use of the 20-year	19	move through it, your initial five-year period	
20 period, is that a new addition to the way the	$\frac{1}{20}$	gets smaller and smaller and you're going to	
21 the FA goes about its trend analysis?	20	lose your ability to actually identify that as	
22 MR. DOHERTY:	22	a separate period and it's going to become now	
A. I honestly can't recall if Eckler or KPMG 1	$\begin{bmatrix} 23\\23\end{bmatrix}$	part of your current period where it may not	
24 can't recall what periods, how far back the	\mathbf{v} $\begin{vmatrix} 25\\ 24 \end{vmatrix}$	necessarily be appropriate to have that. So	
went. I'm sorry, I don't recall.	25	we prefer to have a longer period to avoid	

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1 that kind of bias that may work its way in if	1	difference between the loss trends is the
2 you're looking at shorter periods.	2	experience period over which the trends are
3 JOHNSON, Q.C.:	3	selected. Oliver Wyman uses three to five
4 Q. The Nova Scotia Board, as we discussed bri	efly 4	years of experience while Facility goes back
5 earlier, has issued a couple of decisions and	5	to 1990, 20 years. Facility argues that the
6 if we could bring up the first of these.	6	longer term is inherently more stable. That
7 MS. GLYNN:	7	may be true, but the Board staff state it is
8 Q. They need to be entered as well.	8	also less responsive to changes." And they go
9 JOHNSON, Q.C.:	9	on to say at paragraph 22 that "in the past,
10 Q. Okay.	10	the Board has selected the shorter time
11 MS. GLYNN:	11	horizon as opposed to that used in
12 Q. The September one first?	12	applications made by Facility. Despite the
13 JOHNSON, Q.C.:	13	potential future instability, Board staff
14 Q. Or the October one, if you would.	14	recommends the use of the Oliver Wyman
15 MS. GLYNN:	15	selected trends for the purpose of developing
16 Q. October, okay. So the October decision will	ll 16	indications against which to judge the
17 now be Information Item No. 2 and the	: 17	appropriateness of Facility's approval." So
18 September decision will now be Information	1 No. 18	the Board accepted the OW trends. And I take
19 3. We'll circulate an updated list after,	19	it then from that, I understand that Oliver or
20 later this evening.	20	Facility has a track record of using longer
21 JOHNSON, Q.C.:	21	periods than at least the Nova Scotia
22 Q. Thank you. I'm referring to the recent	22	regulator feels comfortable with.
23 decision of the Nova Scotia Board of Octob	ber 23 M	R. DOHERTY:
24 23rd in the matter of a Facility application,	24	A. And I would characterize it the same way. The
25 and as I understand it, this is for	25	viewpoint seems to be that by using the 20
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1 miscellaneous vehicles.	1	years we're using a trend that spans 20 years,
2 MR. DOHERTY:	2	which is not the case. And again, we could
3 A. I believe the first one was a private	3	lop off we could exclude all the earlier
4 passenger, but I might be on the wrong one.	4	data. We're not going to do that just to
5 JOHNSON, Q.C.:	5	satisfy somebody's view that, you know,
6 Q. I'm on the October one.	6	including it is somehow biasing our decision.
7 MR. DOHERTY:	7	In this case, if I use eight years, I get the
8 A. Okay, sorry.	8	exact same trend rate and the same thing
9 JOHNSON, Q.C.:	9	occurred in Nova Scotia, so you know, I can
10 Q. Okay. Do you have that one?	10	put my blinders on and pretend that that
11 MR. DOHERTY:	11	initial ten-year period didn't happen, but it
12 A. Yes.	12	did and why would I throw away good data?
13 JOHNSON, Q.C.:	13 JO	HNSON, Q.C.:
14 Q. Okay. And I note at paragraph 20 -	14	Q. And I guess you'll confirm that they similarly
15 MR. DOHERTY:	15	viewed a concern about the 20-year analysis
16 A. Yeah.	16	period in the private passenger decision in
17 JOHNSON, Q.C.:	17	September?
18 Q the Board remarks that "the Oliver Wym	an 18 M	R. DOHERTY:
19 selections produced much lower indicated	d 19	A. Correct, yes.
20 changes. It's difficult to determine if the	20 JO	HNSON, Q.C.:
21 lower indicated changes are caused by the C	OW 21	Q. Which is at and I won't bring you to it,
22 use of 'indemnity plus ALAE' as opposed to	o 22	but it's, I think, Information No. 3.
23 Facility's use of indemnity only data or by	23 M	S. GLYNN:
the longer time frame used by Facility. Boar	d 24	Q. 3.
staff believe that the major reason for the	25 JO	HNSON, Q.C.:

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	Pa	age 141			Page 143
1	O. Yeah, okay. I'll probably revisit trend with	0	1	that -	
2	you tomorrow but for the remaining time,	I	2	MR. DOHERTY:	
3	just wanted to talk about a couple of items		3	A. That sounds	about right. I don't have the
4	that I think could comfortably be dealt with		4	figures in from	nt of me.
5	in the time remaining. The Facility standard	l	5	JOHNSON, Q.C.:	
6	of full credibility which affects third party		6	Q. Subject to cha	ange.
7	liability only, I think as you've explained,		7	MR. DOHERTY:	
8	in 2013 you used 5410 claims. I'm sorry if		8	A. Yeah.	
9	I'm not using the right terminology. In 2013	,	9	(2:15 P.M.)	
10	you used a larger figure for the standard of		10	JOHNSON, Q.C.:	
11	credibility for third party liability?		11	Q. Okay, and I ta	ake it, you are familiar with the
12	MR. DOHERTY:		12	fact that the E	Board in its order arising out
13	A. Yes. Mr. Pelley used a larger 5410 I		13	of that procee	eding which was Order Number AI-
14	believe was the number.		14	9, 2013, indi	icated that it was not in
15	JOHNSON, Q.C.:		15	agreement wi	th the Facility's selected loss
16	Q. And so that - it wasn't a mistake last time,		16	trend rates or	its return on investment income
17	it was a conscious choice of Mr. Pelley to us	se 🛛	17	assumptions,	right?
18	a larger number?		18	MR. DOHERTY:	
19	MR. DOHERTY:		19	A. Correct.	
20	A. Yes, it was.		20	JOHNSON, Q.C.:	
21	JOHNSON, Q.C.:		21	Q. Now Oliver V	Wyman tells us in their report that
22	Q. Okay, and, I guess, it does have a bearing or	1	22	in this applica	ation Facility is adjusting its
23	the indicated rate for third party liability,		23	target loss ra	tio for rate inadequacy, that
24	I take it?		24	Facility believ	ves exists due to the difference
25	MR. DOHERTY:		25	between its	prior application's rate
	Pa	age 142			Page 144
1	A. Yes, it does.		1	indication co	mpared to the rate change
2	JOHNSON, Q.C.:		2	approved by t	the Board, and that's correct?
3	Q. Yeah, and if you had used - I'll get you to		3	MR. DOHERTY:	
4	confirm that Oliver Wyman indicates in the	ir	4	A. Is that a quote	e? I just want to make sure I
5	report that if you were to have used the same	e	5	understand th	e idea of the target - because
6	standard as Mr. Pelley used in the last		6	we're not cha	nging our target.
7	application, and no other changes and		7	JOHNSON, Q.C.:	
8	assumptions, that the rate indication for		8	Q. You're adjust	ing your target loss ratio for
9	third party liability would decrease by		9	rate inadequa	cy?
10	something like / percent?		10	MR. DOHERTY:	
	MR. DOHERTY:		11	A. No, we haven	lít -
12	A. That's correct.		12	JOHNSON, Q.C.:	
13	JOHNSON, Q.C.:	ha	13	Q. NO?	
14	Q. You can confirm that, okay, and so would up	ne	14	MR. DOHERTY:	diverse descent on the shift
15	that he accountable actuarial indemant this		15	A. we haven t a	adjusted our target - 1 m a bit
10	time acceptable actualitat judgment tins		10		ne language. Maybe i could -
1/			1/	JUHNSON, Q.C.:	ot's fina
10			10	Q. OU alleau, Illa MR DOHERTV.	u 5 mic.
20	A. 100.		19 20	$\frac{1}{1}$	derstand it we have really two
$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	Δ s regards the complement of credibility m	w	20 21	choices as I	understand it. It's the same
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	understanding of the January 2013 application	-y on	21 22	two choices y	ve would have as I talked about
$\begin{vmatrix} 22\\ 22 \end{vmatrix}$	is that Facility estimated that its rate level	<i>J</i> 11	22 23	earlier If we	had a rate filing within the
$\begin{vmatrix} 23\\ 24 \end{vmatrix}$	change needed to be 70.7 percent, but propo	sed	23 24	most recent -	if we haven't had a rate filing
25	a rate change overall of 51.1 percent. Is		25	in two to thr	ee years, we start with the

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	Pa	age 145		Page 147
1	assumption that our expiring rates are	0	1	instance, your return on investment parameter,
2	adequate, and I believe that's the position as		2	and I'm trying to square that?
3	one full credibility complement. The other	-	3 MR	. DOHERTY:
4	one is - the other position we take is that if		4 4	A. Yeah, and so I would characterize it as -
5	we have a recent filing and there was a		5	there's two areas of consistency. Our view of
6	difference between what was approved and	what	6	consistency is our position is that it's
7	the indicated was, we would recognize the	e	7	consistent with your prior one, and the PUB's
8	difference between those two. I think that's		8	position - again there's - I believe there's a
9	what they're getting at.		9	little bit of deficiency even when they did
10	JOHNSON, Q.C.:		10	their adjustments, but let's assume that the
11	Q. Okay, and, I guess, you'd agree with me that	at	11	Order was that you do this, and your rates are
12	in order to accept your adjustment, or call it		12	adequate. So there are those two different
13	what you will for rate inadequacy, that we		13	positions. The latter one would be consistent
14	would also have to necessarily accept that FA	A	14	with the PUB's decision and their rationale
15	2013 Application rate indication was also		15	for their decision, absolutely.
16	appropriate?		16 JOH	INSON, Q.C.:
17	MR. DOHERTY:		17 (Q. But if we were - I take it, the premise is
18	A. Yeah, I think even when we did adjustments	5, I	18	that you're here to say that your last rate
19	think there was a little bit of not - if you		19	indication was appropriate?
20	think about the third party liability - I'm		20 MR	. DOHERTY:
21	going off memory here and I could be wron	ng, i	21 A	A. Based on more current data, I'd say it wasn't
22	but we proposed a 50 percent. Our indication	on 1	22	appropriate, it wasn't high enough, but at the
23	was higher than that. We did a number of	f	23	time - and our approach is the indication we
24	changes to assumptions as per request, and i	t	24	had last time was higher than we got,
25	came in a little bit higher than the 50		25	therefore, there is some deficiency still in
	Pa	age 146		Page 148
1	percent.		1	our rates that we need to start reflecting
2	JOHNSON, Q.C.:		2	with, and then use that as the basis going
3	Q. Yes.		3	forward.
4	MR. DOHERTY:		4 JOH	INSON, Q.C.:
5	A. And so the 50 percent was fine. So there		5 (Q. Okay, so, like - and I'm trying to understand
6	might have been a little bit, but I - let's		6	what we then end up doing with the Board's
7	assume that the other one that we would be	e	7	Order from just last year. I mean, are we
8	starting with is assuming rates that are		8	basically saying do we ignore the Board Order
9	expiring are adequate.		9	and say, look, notwithstanding that, and
10	JOHNSON, Q.C.:		10	notwithstanding the Board having reviewed the
11	Q. But, I guess, what I was getting at is that as		11	matter and stated that it disagreed with
12	I understood the concept of rate inadequacy	',	12	Facility on trend and disagreed with Facility
13	you're saying that something should be do	ne	13	on return on income, that we are now going to
14	about the difference between your prior		14	assume that the 2013 FA rate indication was
15	application's rate indication compared to the	e	15	correct? Is that what we must do?
16	rate change approved by the Board, and it ju	ist	16 MR	. DOHERTY:
17	seemed to me that in order for us to accept		17 A	A. My understanding is that's the Board's
18	the concept of rate inadequacy, which has a	a	18	decision. I determine the rate level based on
19	bearing on the rate request in this case, that		19	my assessment of the process that we have,
20	we would have to also accept that FA's 201	3	20	including what I believe is rate deficiency
21	Application's rate indication was appropriate	e, [2	21	coming forward. If the Board chooses a set of
22	and I'm wondering how we square that with	the	22	assumptions that they think is applicable, I
23	Board's Order in 2013 saying that, look, we	do	23	will certainly tell them what the indication
$ ^{24}_{2^{-}}$	not accept your trend selection, and we have	e l	24	based on that is, and they can make themselves
25	anneulty with and do not accept, for		25	consistent with their view of whether or not

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1	the rate level change that we got last time		1 J	JOHN	SON, Q.C.:
2	brought our rates to adequacy. The indication		2	Q.	So, like, is there a number, like, would you
3	that we have is my work product based on my		3		have to stay out two years before you would
4	assumptions. You know, if I'm ordered to show	,	4		assume rate adequacy? Is it three years, you
5	an indication based on alternate set of		5		know -
6	assumptions, I do that, just as if you asked		6 N	MR. I	OOHERTY:
7	for different sets, I'll show you what those		7	A.	It does vary, but it's generally in that ball
8	results are, but my own personal view is		8		park.
9	supported by the indication bringing forward a		9 J	JOHN	SON, O.C.:
10	rate inadequacy into our current review.		10	0.	So two years, three years?
11	JOHNSON, Q.C.:		11 N	MR. I	OOHERTY:
12	O. So just - if the Board, having heard and		12	A.	Two to three years, yeah.
13	determined this application in November, 2014,		13 J	JOHN	SON, Q.C.:
14	were to determine that FA's trend selection.		14	0.	So four years, and you'd assume that they're
15	for example, was inappropriate, or some other		15		adequate?
16	element of your application was inappropriate,		16 N	MR. I	OOHERTY:
17	and thereby take issue with FA's rate		17	A.	Yeah, I would assume that after four years,
18	indication, in next year's Facility		18		because we do annual reviews, that if the
19	Application, if there were to be one, would FA		19		Facility Association has decided not to file
20	again then make an adjustment for what it		20		rates, they did it for certain reasons, and
21	deemed to be rate inadequacy? Is that how it		21		after four years we don't think it would be
22	would continue to go?		22		appropriate to go in to a regulatory
23	MR. DOHERTY:		23		application saving, by the way, we think our
24	A. Yes.		24		rates - we're starting off assuming our rates
25	JOHNSON, O.C.:		25		are deficient, and we have some more
	Раде	150			Page 152
1	O Okay all right and Lunderstand that FA has	150	1		experience telling us they're even more
	a policy if it has not recently filed for a		2		deficient or not we don't think that that's a
	rate change, you would assume that the current		2		fair position to take because we haven't
	rates are adequate?		1		shared the analysis in that interim period
	MR DOHERTY.		- -		If we just sent information in every year
6	A It's not - I wouldn't characterize it as a		5		saving we not going to change our rates we
	nolicy It's a guide to our process when		7		just want you to see that we think our rates
	we're looking at how we start yes		8		are deficient they're getting more deficient
	IOUNSON O.C.		0		and now we've, decided to do, something about
	O Okay and -		9 10		it I think that's an awkward position to put
	Q. Okay, and -		10		the position in
11	A And the rationale for that is we recognize		11 12 I		SON O.C.
12	that when we submit an application if it's		12 J		Son, q.c So annually you review Eacility's rates
13	been a long time and we say we didn't share it		13	Q.	including the taxi rates in Newfoundland and
14	with you last year, but we did one and it		14		L abrador?
15	showed some rate inadequacy or deficiency and		15	мр т	
10	we're bringing that forward it's not really		10 r	NIK. 1	That has not been the historical process
11/	fair to the regulator because we didn't share		17	A.	Generally the historical process has been
10	with them that analysis		10		that private passenger, commercial and inter
19	IOUNSON O.C.		19 20		under private passenger, commercial, and inter-
$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$	O Okay	:	20 21		initiality which is a second times they also
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	V. ORAY. MD DOHEDTV:	:	∠1 22		added a second review for Ontario and Alberto
$\begin{vmatrix} 22\\ 22 \end{vmatrix}$	A So at some point we just say you know we're		22 23		nrivate passenger. Miscellaneous vehicles and
23	starting fresh we assume the rates were		23 24		recreational vehicles historically were only
24	adequate		∠+ 25		reviewed every two years alternating between
145	aucquaic.		<i>4</i> J		is not over two years, anomating between

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1	public and recreational. When we took over		1	JOI	HNSON, O.C.:
2	internally the review process, effectively the		2	. 1	Q. And I take it that there's no debate, that
3	whole process in 2013 with a jurisdiction, we		3		certainly there is a significant rate impact
4	annual review all classes of business. So		4		or a rate - yeah, rate impact is the right way
5	going forward, we review all classes for every		5		to put it, from FA's request to have rate
6	jurisdiction annually, but that has not been		6	,	inadequacy reflected?
7	the historical practice.		7	MR	a. DOHERTY:
8	JOHNSON, Q.C.:		8		A. Correct.
9	Q. I take it that there was a rate review that		9	JOI	HNSON, Q.C.:
10	led to the application of last year for new	1	10	(Q. And I take it, would you be prepared to
11	taxi rates?	1	11		confirm, subject to check, that your indicated
12	MR. DOHERTY:	1	12		rate level change, if you just removed the
13	A. Yes.	1	13		rate inadequacy piece, but kept everything
14	JOHNSON, Q.C.:	1	14		else there, would decline about 24 percent on
15	Q. And to your knowledge, when was the previou	is 1	15		an overall basis?
16	time that the taxi rates had been reviewed?	1	16	MR	R. DOHERTY:
17	MR. DOHERTY:	1	17	1	A. Yeah, that's about right, yeah.
18	A. I don't know if it was the year before or two	1	18	JOI	HNSON, Q.C.:
19	years before. I kind of think it was two	1	19	(Q. Okay, and the Nova Scotia Board, I understand,
20	years before, but I can't be certain on that.	2	20		and perhaps we could take that decision up,
21	I believe Newfoundland taxi rates were	2	21		the September 22nd decision. That would be -
22	reviewed more often because they were	2	22		it's listed at Item 1 on that.
23	significantly deemed as being inadequate, but	2	23	MS	. GLYNN:
24	management did not - the Board of Directors	2	24	(Q. Yeah, but because they weren't entered at the
25	did not approve a rate filing based on those	2	25		beginning, we're now entering them as we go.
	Page	154			Page 156
1	analyses, which is why - well, the 2013 filing		1		It's number 3 now.
2	was based on a previous methodology where the	ey	2	JOI	HNSON, Q.C.:
3	always assume that regardless of what		3	(Q. Okay. If I could - I think there was a
4	happened, they would revert back for public		4		discussion in that decision, Mr. Doherty, of
5	and miscellaneous, and again we've changed th	ie	5		the Nova Scotia Board's views on rate
6	process so it's the same across all classes of		6		inadequacy.
7	business for all jurisdictions. I can		7	MR	R. DOHERTY:
8	certainly do an undertaking to determine		8	1	A. Yes.
9	exactly what rate reviews were completed over		9	JOF	HNSON, Q.C.:
	these rate reviews, were and what her or not		10) 	Q. And I take it that similarly -
	those rate reviews were, and whether or not those were taken to the Roard of Directors and		11	MR	L DOHERTY:
$ _{12}^{12}$	what the Roard of Directors desisions were		12	1	A. I believe it's starting at number 52. I think
13	with respect to an application based on those	1	13	IOI	It's on page 10 of the document.
14	indications	1	14	JOI	$\mathbf{O} \mathbf{Paragraph} 329$
15			15	MR	DOHERTV.
17	O That would be fine weah		10	WIN	A Yes I believe so
18	MR DOHERTY	1	18	IOI	ANSON O.C.
19	A. How far back do you want me to -		19	100	O. They indicate that FA took the position that
20	JOHNSON, O.C.:		20		there was rate inadequacy resulting from the
$ _{21}^{-3}$	Q. Well, you said ten years. I think you said		21		time of its last application before the Board.
22	ten years.	2	22		At the time, the Board did not accept the
23	MR. DOHERTY:	2	23		indicated rate level change, instead accepting
24	A. I can try ten years, but I'm sure I can do at	2	24		a greater decrease as more reasonable and
25	least eight, but I'll try for ten.	2	25		ordering it be used, etc. So similarly, the

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	Pa	ge 157		Page 15	59
1	Board was asked in Nova Scotia to entertain	a	1	1 counsel, but I think an extra half an hour in	
2	rate inadequacy argument from Facility?		2	2 the morning would be -	
3	MR. DOHERTY:		3	3 CHAIRMAN:	
4	A. That's correct.		4	4 0.9:30.	
5	JOHNSON, O.C.:		5	5 STAMP. O.C.:	
6	O But it declined it This application in that		6	6 0 My preference Mr Chairman for what it's	
	matter it was in respect of private passenger		7	7 worth is to start at 9 o'clock. We have	
	vehicles in Nova Scotia, and that application		, 8	tomorrow set aside for this I'd like to do	
	was filed Lunderstand it on or about March		9	as much as we possibly can and I'd like to	
10	5th 2014		10	see whether we can finish with Mr. Doherty and	
	MR DOHERTY:		11	start and move some distance into Ms Elliott	
12	A That sounds about right yeah		12	2 MS CI VNN:	
12	A. That sounds about fight, yean.		12	2 MS. OLTINN.	
13	O So close to when this application was being		13	the stand tomorrow unless we have a very large	
14	Q. So close to when this application was being		14	the stand tomorrow unless we have a very large	
15			15	chunk of time left, and the way this has been	
10	MR. DOHERTY:		10	b going, I don't think that's going to happen.	
	A. That's correct, yes.		1/	A nall nour in the morning, I don't think is	
18	JOHNSON, Q.C.:		18	8 going to be a detriment to anybody. The	
19	Q. And prior to that, when had been the last		19	9 leave that to the Board.	
20	application to the Nova Scotia Board for		20	0 CHAIRMAN:	
21	private passenger?	:	21	Q. You lose. I think we'll start at 9:30.	
22	MR. DOHERTY:		22	2 (UPON CONCLUDING AT 2:30 P.M.)	
23	A. I can't say off the top of my head.				
24	JOHNSON, Q.C.:				
25	Q. Could you check that as well and undertake t	.0			
	Pa	ge 158		Page 16	50
1	let us know when the prior application was		1	1 CERTIFICATE	
2	filed with the Board?		2	2 I, Judy Moss, hereby certify that the foregoing is a true	
3	MR. DOHERTY:		3	3 and correct transcript in the matter of a Facility	
4	A. Nova Scotia PUB?		4	4 Association Application re: Taxi and Limousine Automobile)
5	JOHNSON, Q.C.:		5	5 Insurance Rates heard on the 6th day of November, 2014	
6	Q. Yes.		6	6 before the Board of Commissioners of Public Utilities,	
7	MR. DOHERTY:		7	7 120 Torbay Road, St. John's, Newfoundland and Labrador	
8	A. Certainly, yes.		8	8 and was transcribed by me to the best of my ability by	
9	JOHNSON, Q.C.:		9	9 means of a sound apparatus.	
10	Q. Mr. Chairman, Commissioners, I don't thir	ık	10	0 Dated at St. John's, Newfoundland and Labrador	
11	that within the fifteen minutes remaining it		11	1 this 6th day of November, A.D., 2014	
12	makes much sense for me to get into anothe	er 🛛	12	2 Judy Moss	
13	topic, so if it pleases the Board, we could			•	
14	convene tomorrow and I could continue on.				
15	CHAIRMAN:				
16	O. I don't think there's a problem with that.				
17	JOHNSON, O.C.:				
18	O. Okay, thank you.				
19	CHAIRMAN:				
20	0. We are adjourned until tomorrow at - what	t			
$ _{21}^{-3}$	time. 9:30?	-			
22	MS GLYNN:				
22	O We had discussed 9 but I wonder with the	,			
$\Big _{24}^{23}$	delay in the transcript if maybe we could				
$ _{25}^{24}$	start at 9:30. I hadn't discussed that with				

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