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1 CHAIRMAN:	1 MS	. ELLIOTT:
2 Q. Good morning everybody. And I'll ca	11  the 2	A. Yes, with one change. It was brought to our
3 continuation of this hearing to order.	I 3	attention through the work done by the
4 don't think there are any preliminary	or 4	consumer advocate that there was an error in
5 procedural matters to be considered, is	there, 5	the transfer to data by FA from its prior
6 madame?	6	filing to this current filing, and as a result
7 MS. GLYNN:	7	of that finding by the consumer advocate it
8 Q. No, Mr. Chair, only that the undertaking	gs that 8	changes our overall rate level estimate of the
9 were provided by Mr. Doherty, we und	derstand 9	rate level change need from about 21 percent
10 that they will be filed by close of busin	ess 10	down by about an additional one point decline.
11 today.	11 MS	. GLYNN:
12 CHAIRMAN:	12 (	Q. Okay, thank you. And Ms. Elliott, we may have
13 Q. Okay, well in that case I believe I do tu	rn it 13	covered some of all this through our
14 over to you.	14	examination of Mr. Doherty, but I do want to
15 MS. GLYNN:	15	walk through your findings in your report. So
16 Q. Absolutely.	16	I'd ask if you could describe the general
17 CHAIRMAN:	17	approach that you take when reviewing
18 Q. You're on.	18	facilities rate application.
19 MS. GLYNN:	19 MS	. ELLIOTT:
20 Q. And we'd like to present Ms. Paula E	lliott 20	A. Well, with all filings that we review for the
from Oliver Wyman. Ms. Elliott, I und	erstand 21	Board we compare the description of the
that you would like to be affirmed?	22	assumptions and methodology that are presented
23 MS. ELLIOTT:	23	in the filing and we compare that to the prior
24 A. Yes.	24	filing, looking for consistency, and we also
25 MS. GLYNN:	25	compare that to the Board's guidelines, so
	Page 2	Page 4
1 O And I know how to do that this time		that we can see the assumptions and methods
2 MS ELLIOTT:		that are used and if there are any changes in
2 MS. ELLIOTT.		that So that's the first step that we do
A MS DALU A ELLIOTT (AFEIDMED) EVAMINATION IN CHIEF D		Then we'll review the calculations all the
4 MS. PAULA ELLIOTT (AFFIKMED) EXAMINATION-IN-CHIEF B	1 MS. 4	steps that go through the preparation of
6 Mg CLYNN	5	determining what the rate indication change
7 O Thenk you Thenk you for coming back and		is Then after we've completed that we'll
7 Q. Thank you. Thank you for coming back and		ask we'll typically ask questions of the
o general Ma Elliott on your superiones and	0	filer so that we understand that we're sure
9 agreed, Wis. Enfort, on your experience and	9	that we understand their assumptions and
10 your expertise as an actuary, so we won't go	10	matheda. We might ask for a testing of
11 unrough your background here this morning. 1	11	alternative assumptions. We might ask for
12 would ask that you state your current position	12	additional data and sometimes there are
13 though, please.	13	follow up questions. And finally ofter that
14 MS. ELLIOTT:	14	process is completed, we'll propers our report
15 A. I m withI m a principal with the consulting	15	of findings
16 firm Oliver wyman.	16	of findings.
17 MS. GLYNN:	17 MS	.GLYNN:
18 Q. Thank you. Ms. Elliott, you prepared a report	18 (	2. Is there anything different in this review
19 dated May 16th, 2014 dealing with facilities	19	compared to other reviews?
20 right filing for taxis and limousines, is that	20 MS	ELLIOTT:
21 correct?		A. wen, yes. In this particular review for the
22 MS. ELLIOTT:	22	taxi filing we had just completed last year a
23 A. Yes.	23	review of a taxi filing, and in that review
24 MS. GLYNN:	24	last year we found that a rate increase of 50
[25] Q. And you adopt that report as your testimony?	25	percent was supported based on the information

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1		provided. FA had proposed a 50 percent ra	te	1		t	trend rates.	
2		increase and the Board approved the 50 per	cent	2	MS	. EL	LIOTT:	
3		rate increase. So in this particular filing		3	A	A. (	Okay.	
4		what we wanted to understand, what would	cause	4	MS	. GL	YNN:	
5		such a change after this prior filing, what		5	(	Q. (	Can you explain generally what loss trends are	
6		would cause such a change to come back in	with	6		- 6	and how they are used in this filing?	
7		another proposal just north of 50 percent? S	So	7	MS	. EL	LIOTT:	
8		that's unique in this filing. And then the		8	A	A. (	Okay. Loss trend rates are simply trying to	
9		second thing with this filing compared to m	any	9		t	take historical data, experience data that we	
10		other filings is that we're dealing with taxi	2	10		ł	have, the taxi data in this particular filing,	
11		data which is very limited and very small	,	11		2	and trying to project these historical costs	
12		very volatile. So we wantthere's a lot of		12		t	that we have to what the cost level would be	
13		uncertainty in this filing compared to other	•	13		f	for the proposed rate program that's going to	
14		filings. So there are two things that are		14		ł	be effectin effect in 2015. So that's the	
15		pretty unique about this filing compared to	)	15		1	purpose of loss trend rate, is to project them	
16		other reviews that we do.		16		f	forward. And in doing so an actuary will	
17	MS. C	LYNN:		17		6	examine historical data to try to identify the	
18	Q.	Ms. Elliott, can you summarize the findings	s on	18		1	patterns of change in that historical data.	
19		the proposed rate level changes?		19			So we want to look at how many claims	
20	MS. E	LLIOTT:		20		(	occurred, and that's referred to as the	
21	A.	Okay. Probably easiest if I just go to my		21		f	frequency rate. Is there a change in the	
22		report.		22		f	frequency rate over time? We're trying to	
23	MS. C	JLYNN:		23		i	identify that pattern. Then we're looking at	
24	Q.	Sure.		24		t	the average claim size which is referred to as	
25	MS. E	LLIOTT:		25		6	a severity, and is that changing over time and	
			Page 6				Page	. 8
1	A.	Okay, I think it's page 20. I hope it's	1 464 0	1		1	how is that changing? And the combination of	
2		there. So this table we've presented for wh	at	2		t	the frequency change and the severity change	
3		we're referring to as the three key coverage	s	3		i	is the loss cost change, and the loss cost is	
4		or the three independently rated coverages	5.	4		t	the average cost per car insured, the average	
5		third party liability, accident benefits, and	7	5		C	claim cost per car insured. So we're trying	
6		uninsured auto, and for those three coverage	es	6		t	to identify those patters. And in the process	
7		based on assumptions presented by FA they	had	7		(	of identifying those patterns we use something	
8		a rate indication of just shy of 82 percent.		8		1	referred to as a regression analysis to	
9		They're proposing just over 50 percent, 56.	7.	9		(	calculate that rate of change. And in doing	
10		And based on assumptions thatand the Bo	oard	10		5	so we want to consider what time period should	
11		guidelines that we thought were reasonable	, we	11		v	we use? How many years of data? Are any data	
12		were estimating a rate increase of 21.5		12		1	pointsyou know, what should we exclude when	ı
13		percent with TPL just under 20 percent and	d	13		, I	we do this regression analysis? We also want	
14		accident benefits and uninsured auto over	a	14		t	to consider are there any external forces that	
15		hundred percent. And as I noted earlier, du	e	15		2	are occurring that could affect these loss	
16		to a finding by the consumer advocate of	a	16		t	trend rates? And last, but not least, we also	
17		transfer error made by FA, that 21.5 percent	t	17		v	want to consider the uncertainty of that data.	
18		is a little bit lower, about a point lower.		18	MS	. GL	LYNN:	
19	MS. C	JLYNN:		19	(	Q. 1	Did Facility use its taxi data to determine	
20	Q.	So Ms. Elliott, today I want to touch on the	2	20		t	those loss trend rates?	
21		same three issues which we discussed with	Mr.	21	MS	. EL	LIOTT:	
22		Doherty, and those are the differences betw	reen	22	I	A. l	Didyes. Sorry. To determine the rate	
23		your report and Facility's, and also		23		i	indications and to determine the loss trend	
24		Facility's report from last year and this		24		1	rates that are used Facility used commercial	
25		year. So we're going to start with the loss		25		(	data, and this is commercial data for vans and	

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1 trucks. Is it not taxi experience. There's	0	1 A.	Yes. Eachevery six months there'sit's	
2 no taxi experience included in the commerci	al	2	called the General Insurance Statistical	
3 data. It's completely separate. So Facility		3	Agency. We refer to that as GISA. Every six	
4 used commercial data to determine loss trem	ıd	4	months new data is released, provided by GISA.	
5 rates and then applied that to taxi		5	We analyze that data. We review the	
6 experience.		6	experience. We prepare our report that	
7 MS. GLYNN:		7	presents our loss trend rates that we've	
8 Q. And did Oliver Wyman use the same data?		8	selected, and that reportwe do this	
9 MS. ELLIOTT:		9	separately for private passenger and	
10 A. Yes, we used the same data, yes.		10	commercial auto. That report is then provided	
11 MS. GLYNN:		11	to the insurers for their review and comment,	
12 Q. Okay. So Ms. Elliott, is there a better		12	and based on any comments that might be	
13 alternative than the commercial data?		13	received they are taken into consideration.	
14 MS. ELLIOTT:		14	And then the report is approved by the Board	
15 A. No, we are not saying that there's a better		15	and it's published on the Board's website for	
16 alternative than using the commercial data as	s	16	insurers to use, to choose to use if they so	
17 FA had chosen to do, but that adds to the		17	decide to.	
18 uncertainty. We're talking loss trend rates		18 MS. C	LYNN:	
19 based on commercial experience which does	not	19 Q.	Can you explain the parameters which resulted	
20 include taxis and then using those loss trend		20	in the different loss trend rates being chosen	
21 rates to apply to taxi experience.		21	by yourself and by Mr. Doherty?	
22 MS. GLYNN:		22 MS. E	LLIOTT:	
23 Q. Ms. Elliott, is there judgment applied in		23 A.	Okay. There are I guess four key differences.	
24 selecting loss trend rates?		24	One is the time period that is selected. FA	
25 MS. ELLIOTT:		25	has chosen to use a 20-year experience that	
Pa	age 10		Page 12	
A. Yes, there's considerable judgment, and one	of	1	they review. That is a change from their	
2 the things that we do is we, in a review such		2	prior filing, and Oliver Wyman, we arewe	
3 as this review or any other rate filing		3	take into consideration the trend rates over a	
4 review, is we look at the judgments that are		4	ten-year and a five-year period. A second	
5 made in selecting the loss trend rates by the		5	difference is the reform factors. So with	
6 filer in their prior filing, and then we look		6	looking at the reforms that occurred in 2004	
7 at the judgments that are made in this filing.		7	and determining the impact of any of those	
8 So we want to see are there any differences,	,	8	reforms. So in this filing FA has presented a	
9 and that's an important issue. And then in		9	very sizable impact for the reform which is a	
10 this particular filing the judgments that are		10	complete change from their prior filing where	
11 made by FA there are many differences fro	m	11	they found that the reforms had no impact on	
12 their prior filing. And there are differences		12	the loss costs, and in this filing we have the	
13 to the judgments that we have made in		13	same position that there was a not a material	
14 selecting the commercial loss trend rates.		14	impact, a measurable impact of the reforms on	
15 MS. GLYNN:		15	the claims experience. So those two items.	
16 Q. And do you agree with the judgments made	e by	16	Another difference that we have are the loss	
17 Facility in selecting its loss trend rates?		17	adjustment expenses. In this filing in	
18 MS. ELLIOTT:		18	calculating its loss trend rates FA excludes	
A. No, we don't agree with all of the judgment	S	19	the loss adjustment expenses which is fine,	
20 made by FA and that's why we have differe	nt	20	but in their prior filing they included the	
21 loss trend rates.		21	loss adjustment expenses when they were	
22 MS. GLYNN:		22	calculating their loss trend rates. In our	
23 Q. Can you explain the process of how the los	s	23	guideline loss trend rates that we prepare we	
trend rates become the Board's guidelines?		24	include the loss adjustment expenses, so	
25 MS. ELLIOTT:		25	that's a difference. And then the fourth kind	

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1 of key difference is the selection of loss	0	1	distributed an exhibit on Friday which we'll		
2 development factors. So lost developmen	t	2	come to later on.		
3 factors are these factors that we apply to the		3 MS. I	ELLIOTT:		
4 losses that have been reported to date to try		4 A.	Okay. All right, so this forfor convenience		
5 to estimate what the claims will ultimately		5	we merged two charts that are presented in our		
6 be, what they will ultimately cost when all		6	Loss Trend Report. So the most recent report		
7 the files are closed and settled. So FA		7	that's being used within in this rate filing		
8 selects its set of loss development factors		8	are the findings based on data as of December		
9 that it applies to the indemnity only, the		9	2012. And that's on the right-hand side, and		
10 losses only, and we select a set up of loss		10	on the left-hand side is an excerpt from our		
development factors that we apply to the		11	report as of December 2011. So we put these		
12 losses and loss adjustment expenses. So		12	side by side just for your visual convenience,		
13 they're the four differences.		13	and in our report we indicate or outline what		
14 MS. GLYNN:		14	is the change from year to year of the loss		
15 Q. Okay. And we'll go into each of those in a	· .	15	cost. So looking at each of these rowswell,		
16 little bit more detail later on. So let's		16	let's just take as of December 2012 for		
17 start with the data that you're using. We've		17	example. We're seeing the change in cost from		
18 had a lot of discussion around the data, and		18	262006 to 2007 is plus 29 percent; and the		
19 it is the commercial data that Oliver Wyma	in 1	19	next year from 2007 to 2008 the cost dropped		
20 used, is that correct?	1	20	by 11 percent; and then the next year, down 9		
21 MS. ELLIOTT:		21	percent; and it went down 6 percent; then it		
22 A. That's correct.		22	went up 34 percent; and then it went down 17		
23 MS. GLYNN:	2	23	percent. So what we're seeing with this		
24 Q. Okay.	2	24	commercial data is it's pretty volatile, the		
25 MS. ELLIOTT:		25	costs go up, they go down, they go up, they go		
Pa	age 14		Page 16		
1 A. Yeah.		1	down. So that one issue with this, the		
2 MS. GLYNN:		2	difficulty with the stability of the data,		
3 Q. And you feel that that data was stable enough	h	3	it's very volatile from year to year. The		
4 to prepare the loss trend rates?		4	second issue with stability is of December we		
5 MS. ELLIOTT:		5	have data that's provided as I said by GISA,		
6 A. The data is very challenging to use and		6	but claims that were reported one yearsorry,		
7 there's a lot of instability in that data. So		7	the experience that's developed new		
8 I think it would be helpful if I presented a		8	information the claims are being handled and		
9 report, I believe it's been distributed -		9	processed, so the estimate of those claims if		
10 MS. GLYNN:		10	you take for example, an accident year 2011,		
11 Q. Okay.		11	the estimate of those claims that we know as		
12 MS. ELLIOTT:	-	12	of December 2011, one year later at the end of		
13 A that shows a measure if you will of this		13	December 2012 that estimate has changed. So		
14 volatility in the data.		14	point that out let me look at myif we look		
15 MS. GLYNN:		15	at 2008 to 2009, as of December 2011 the		
16 Q. Okay, so we li just -		10	later new at the and of 2012, the abance from		
1/ MS. ELLIOTT:		1 / 1 0	2008 to 2000 is minus nine percent. Similarly		
10 A. AIIU -		10	when we look from 2000 to 2010 we thought the		
19 MS. GLYNN:	-	19	shanga was plus three percent but now one		
20 Q. We noting that up there first it that S		20 21	vear later we thing it's minus six percent		
22 MS ELLIOTT		21 22	And the hig one is from 2010 to 2011 and we		
22 MS. ELEOTT. $23$ $\triangle$ Thank you		22 73	thought it was a 58 percent increase based on		
24 MS GLYNN		2 <i>3</i> 74	the information that was provided by GISA and		
25 O. It's actually Exhibit PE 2. We had		25	now one year later we think it's a 34 percent		
	1.	-	,		

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1 2 3 4 5 6 7	increase. So we have the volatility from year to year, each accident year as it changes, and then we have the volatility of what we think the estimate is as it changes over time. So when we think about this data, do we describe it as stable? No, it's very unstable. It's very challenging to work with	1 2 3 4 5 6 7	Α.	Yes. Our models that we run includeevery trend model that we run includes a look at what the frequency trend rate is, what the severity trend rate is, and what the loss cost trend rate is, but what I said earlier, when you take the frequency trend rate, the severity trend rate the two combined equal		
	MS GLYNN <sup>.</sup>			loss cost trend rate. So we do all three		
9	0. Thank you. Ms. Elliott, can you confirm that	9		every time.		
10	in preparing these Loss Trend Reports every	10	MS. G	LYNN:		
11	six months that you look at data for the end	11	Q.	And is the paper report that's established		
12	of December and for the end of June? So for	12		every six months, is that a reflection of all		
13	this year's report you would have looked at	13		the analysis that you perform?		
14	December 2012 and June 2012?	14	MS. E	LLIOTT:		
15	MS. ELLIOTT:	15	A.	No, the paper report is a summary of what		
16	A. Yes, so one of the things that we try to do,	16		we're presenting. It is by no means a		
17	because we find the data has a lot of	17		reflection of all the runs that we do. We do		
18	volatility to it, weand to try to account	18		numerous runs and I think it might be a good		
19	for that, we look at the estimate of the loss	19		pointI'd like to show from our December 2011		
$ ^{20}_{21}$	by trend rates using the data as of the end of June 2012 and then we look at it as of	20		all of the runs that we present And then		
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	December 2012, when we prepare our most recent	21		I'll explain you know a little bit more. If		
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$	report that we're referring to And the most	22		we could bring up the 2011 report?		
$\begin{vmatrix} 2.3 \\ 2.4 \end{vmatrix}$	recent data point is the most unstable. It's	23	MS G	VNN.		
25	new and it's subject to change. So excluding	25	0.	And that would be PE Exhibit 3.		
	Page 1	2		Page 20		
1	that last data point that last half of 2012	5 1	MS FI	LIOTT.		
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	helps to just bring a little more stability.	$\begin{vmatrix} 1\\2 \end{vmatrix}$	A.	Okay. So this happens to be collision and we		
3	not a lot of stability, but some more	3		do the same for every report. So this is our		
4	stability to the estimates that we're	4		Loss Trend Report at the end of 2012sorry,		
5	providing.	5		2011. And it's one of the exhibits at the		
6	MS. GLYNN:	6		back. And in this we have some trend rates		
7	Q. Okay, can you describe Oliver Wyman's trend	7		that we've run, and we excludewe have ten		
8	model?	8		years, six years, five, you know, different		
9	MS. ELLIOTT:	9		ones. We look at loss cost, severity,		
10	A. Yes, our trend model, I think it's	10		frequency in R squares and various exclusions.		
11	sophisticated and flexible. We have the	11		So we run numerous models, versions of our		
12	ability to include any time period that we	12		trend runs, and even more than this. So to		
13	want, the number of years. We can exclude any	13		assume that we just run four models and that's		
14	data points that we choose to excludes. You	14		it is a misunderstanding of what we do. And		
15	data point. We can include any consideration	15	CT A M	In the process of our work -		
10	on the reforms consumer price index	10	O	r, g.c Excuse me Mr. Chairman, can we have the page		
18	unemployment rates We've even included	18	Q.	number please that we're following here?		
19	models with weather, what the precipitation	19	MS. GI	LYNN:		
20	is. So it's a very flexible model that we	20	0.	Oh, I'm sorry. It's page 14.		
21	use, yeah.	21	MS. EI	LIOTT:		
22	MS. GLYNN:	22	A.	So the issue here is not -		
23	Q. Do you run your models for frequency and	23	MS. GI	LYNN:		
24	severity as well as loss cost?	24	Q.	Just one second, Ms. Elliott. Do you have it?		
25	MS. ELLIOTT:	25	MS. NI	EWBURY:		

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	1 0. I'm just trying to keep track of the docur	nents	1		selection from a prior report so that we feel		
	2 here, okay?		2		that we're getting a stable estimate for each		
	3 STAMP, Q.C.:		3		six-month report that we prepare.		
	4 Q. That's it. Yes, okay. Thank you.	2	4 ]	MS. G	LYNN:		
	5 MS. GLYNN:	4	5	Q.	And that approach was the same in the 2011 and		
	6 Q. You have it? Okay. Sorry, go ahead.		6		the 2012 report?		
	7 MS. ELLIOTT:		7 ]	MS. E	LLIOTT:		
	8 A. So what I'm trying to express is that w	ve 8	8	A.	Yes.		
	9 certainly prepare more than four trend r	uns 9	9 1	MS. G	LYNN:		
	10 that you see in the written summary rep	ort, 10	0	Q.	Okay. How do your model results compare to		
	11 many more, and even more than what's p	presented 11	1		those of -		
	12 on a summary sheet that was included	as an 12	2 1	MS. E	LLIOTT:		
	appendices in our 2011 report. And	we 13	3	А.	Okay, I think we've prepared an exhibit that I		
	14 received some feedback thatwhich exp	oressed 14	4		think will be helpful.		
	15 we'd really just rather see your data at th	ne 15	5 1	MS. G	LYNN:		
	16 end of the report, what they dothat you	used 10	6	Q.	And that would be Exhibit 4, the Summary of		
	17 to run your models. And then when we g	et your 17	7		the R Squared Information?		
	report, we'll know what data you used an	nd then 18	8 1	MS. E	LLIOTT:		
	19 we'll decide whether we agree or not. If	f we	9	А.	Yes, yes. Okay, so first of all I promise I		
	20 don't agree, you know, we'll let you kno	w. So 20	0		will not go through each number here. That		
	in 2012 we started to change our report	s to 2	1		would be painful. And I think it'sif you		
	just include the data, a long sheet of data	at 22	2		get one thing from this is thatand we're		
	the end of our report because we had a co	omment 23	3		trying to compare trend models. As easy tool		
	that they would find that more useful to t	them 24	4		to use, it's not always right, but a common		
	to know exactly what we were putting	in, 25	5		tool to use is the adjusted R square. The		
		Page 22			Page 24		
	1 because any other actuary can take the	data 🛛	1		higher the R square is, thetypically the		
	2 and run their own trend model and then d	lecide	2		better the fit of the model, but it's not		
	3 if they agree or not with our findings. A	and 3	3		alwaysit doesn't always give you the right		
	4 they found that more useful, so we made	e that	4		answer, but that's kind of a rough rule of		
	5 change in our 2012 report that we did	n't s	5		thumb. So you have the R square. The		
	6 include this because we had the commen	nt that	6		adjusted R square makes models more comparable		
	7 they weren't finding that that useful. S	0	7		and that's there for you. And we've presented		
	8 that was a change.	8	8		the findings. We've done a ten-year run as		
	9 MS. GLYNN:	Ģ	9		we've said, ending June; a ten-year run ending		
	10 Q. Can you explain the judgments that you	make 10	0		December; and then the same thing with the		
	11 for your approach to your model?	11	1		five-year models. We look at loss costs,		
	12 MS. ELLIOTT:	12	2		severity and frequency, and we've presented		
	13 A. Yes, now as I mentioned there is a lot	of 13	3		this here for you. And on the far columns		
	14 instability to the data. So one of the thing	gs 14	4		that I've kind of highlighted if you will for		
	15 that we're trying to do is strike a balance	e 15	5		you are the calculated loss trend rate. We		
	16 between responsiveness and stability. S	0 in 16	6		have minus 3.6 percent on one of the ten-year		
	17 our model we take into consideration of	what 17	7		models, minus 1.7 on another ten-year model; a		
	time periods we're going to use, what o	lata 18	8		tive-year model we get 1.9 and minus 0.4. So		
	19 that we re going to exclude, and when w	e take	9		we take an average of those in our selection.		
	all this into account what we done and w	nat we 20	0		we draw in what we selected in the prior		
	try to do to present what we believe is	a [2]	1		review and that's now we're forming our		
	responsive and stable approach is we tak	te an $ 22 $	2		selection that we present in our Loss Trend		
	averaging approach. So we're looking a	1 ten- 23	5		Report. So when we look at frequency for		
	year runs and five-year runs and taking	an $ 2^2$	4 ~		example, we're looking at the K square, the		
	averages of that, and we're drawing in	our 25	5		adjusted R square. They're in the fifties,		

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1	high forties, fifties range. And the average	0	1	r	points, and in the five-year model we take the	
2	of our frequency trend is about minus 5.5		2	Ċ	one high point and the one low point to	
3	percent, and those fits are reasonable, If		3	e	exclude those. So that's the approach that	
4	all the R squares were in the ninety percent		4	v	ve've taken to try to be stable from review to	
5	range, we'd all be happy, and you know we	e'd	5	r	eview.	
6	feel comfortable that is it stable. We're		6 N	MS. GL	YNN:	
7	getting good fits, but that's not the case		7	Q. A	And Mr. Doherty has stated in his examination	
8	here. What you can see is that excluding one	e	8	ť	hat he does not agree with that exclusion of	
9	or two different points you can get very		9	t	he high points and the low points on a	
10	different answers. Right? So that's what	1	10	p	percentage basis. Can you speak to that?	
11	we're trying to take into consideration. If	1	11 N	MS. ELI	LIOTT:	
12	we just looked at said, "What's the best fit?"	1	12	A. Y	Yes, I think what we were trying to achieve in	
13	and there's the answer, minus 3.6 has got the	e  1	13	e	excluding the high and the low points on a	
14	R square, I don't think that's the right	1	14	p	percentage basis, as we said, the loss trend	
15	answer if we're trying to look at what the	1	15	r	ate is a percentage change from year to year.	
16	i loss trend rates are and be responsive and	1	16	S	So our thinking was that if we excluded the	
17	stable from review to review. So that's why	/ 1	17	h	high percentage change or the low percentage	
18	we take averages, because we know just	1	18	С	hange, perhaps that would be a good way to	
19	excluding one data point you can get a pretty	/ 1	19	С	apture these extremes, you know, to take that	
20	) different answer. So when we compare th	ie 2	20	C	out of the measurement that we're trying to	
21	model, we've looked at this and we think it's	8 2	21	а	ssess, what is the percentage change from	
22	2 important to take away from here is that just	2	22	У	year to year. So we did that, and you know,	
23	excluding a couple of different data points,	2	23	V	ve've presented what our calculations are, but	
24	you can get a very different answer. So it's	2	24	У	ou know, it's a valid point. I think Mr.	
25	very difficult to be confident that that one	2	25	Ι	Doherty was speaking to our ten-year model	
	F	Page 26			Page 28	
1	answer, minus 3.6, is right or minus 1.7 is		1	e	nding June 2012 and maybe we could, you know,	
2	right, because you know if I just excluded o	one	2	t	alk about that a little bit further. We	
3	data point or two data points, I get a really		3	p	repared a report and the exhibit -	
4	different number. So there's a lot of		4 N	MS. GLY	'NN:	
5	instability in the data, and when we compare	re	5	Q. S	So the exhibit that was distributed on Friday	
6	the findings, you know, this is my take-awa	y,	6	v	vhich was PE 1 that's the Background	
7	that it's not stable, you get different		7	Ι	nformation.	
8	answers pretty easily.		8 N	MS. ELL	IOTT:	
9	MS. GLYNN:		9	A. (	Dkay.	
10	Q. Ms. Elliott, you spoke about excluding dat	a 1	10 N	MS. GLY	'NN:	
11	points. Could youso could you explain	1   1	11	Q. A	And then Ms. Elliott prepared the summary of	
12	2. Oliver Wyman's treatment of outliers?	1	12	t	his which is PE 5.	
13	3 MS. ELLIOTT:	1	13 N	MS. ELL	IOTT:	
14	A. Sure. With outliers, graphically with this	1	14	A. (	Okay. So this exhibit is looking at the loss	
15	data it is so volatile that a layman can see	1	15	t	rend rates, doing sort of two approaches, two	
16	what are the high points and low points, yo	u 1	16	e	xclusions of data points. So in our report	
17	know up and down, up and down. And we	also 1	17	C	f our Loss Trend Report -	
18	no, we look at the actual experience for all	1	18 N	MS. GLY	/NN:	
19	the data, we look at the fitted values to try	1	19	Q.J	ust one second, please.	
20	to see what those differences are. So	2	20 S	STAMP,	Q.C.:	
21	statistically we're looking at, what are the	2	21	Q. 7	The exhibit that we're getting into now, is	
22	extreme points? But our approach is trying	to 2	22	t	his labelled PE 1?	
23	be both responsive and stable from review	to 2	23 N	MS. GLY	/NN:	
24	review is we take in our ten-year model, w	/e 2	24	Q. P	E 1 is the background information.	
25	take the two high points and the two low	2	25 N	MS. NEV	VBURY:	

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	Page 2	.9		Page 31	
1	O. Okay.	1		"Gee, I excluded a couple of different data	
2	MS. GLYNN:	2		points, I take ten years. I get another	
3	Q. And then we've summarized it into a -	3		different answer." So this data is very, very	
4	STAMP, Q.C.:	4		volatile, and the findings are uncertain. So	
5	Q. This is the background?	5		it's hard to take one number and say, "That's	
6	MS. GLYNN:	6		the right number. I've got it." You know,	
7	Q. Yes, yes.	7		but you don't because it changes dramatically	
8	STAMP, Q.C.:	8		with different exclusions and different time	
9	Q. PE 1?	9		periods.	
10	MS. GLYNN:	10	MS. C	JLYNN:	
11	Q. And we've summaries into this chart.	11	Q.	So if Oliver Wyman had used the actual values	
12	MS. NEWBURY:	12		to exclude the high and low points as opposed	
13	O. And that's PE 1 as well?	13		to the percentage change to exclude the high	
14	MS. GLYNN:	14		and low points, the impact would have been an	
15	O. That's PE 5.	15		even lower trend rate?	
16	MS. NEWBURY:	16	MS. E	ELLIOTT:	
17	O. PE 5.	17	A.	That's correct, yes.	
18	MS. GLYNN:	18	MS. C	ILYNN:	
19	0. Thank you, Go ahead, Ms. Elliott.	19	0.	Okay. And that would have resulted in a lower	
20	MS. ELLIOTT:	20	Č.	rate indication?	
$ _{21}^{-0}$	A. Okay. So here and it's another good example	21	MS. F	ELLIOTT:	
22	of excluding a couple of different data	22	A	Right, so if you have a larger negative trend	
23	points you get another different answer So	23		rate, then you would have your findings. Your	
24	we have one column which waswe just looked	24		rate level indication would be lower than what	
25	at these numbers a moment ago like the ten-	25		we present in our report ves	
	Booo 2			Dece 22	
	Page :		MCC	rage 52	
	year trend ending June 2012, the minus 5.0		MS. C	JLYNN:	
$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	on the percentage change from the prior		Q.	okay. And have you always used this approach	
	on the percentage change from the prior	3		to exclude the data points with the highest	
	period, we had certain estimates, and so we	4	100 5	and lowest percentage change?	
5	redid the work to look at to prepare this	5	MS. E	LLIOII:	
6	report. What is the loss trend estimate when	6	A.	No, no. In trying to, you know, find a way to	
17	we exclude the highest dollar value, and the	1		address the large percentage changes that we	
8	Iowest dollar value? And we have these	8		were seeing from period to period in 2012 for	
9	findings. So for example, for the ten year	9		the June report, 2012 in the December report,	
10	ending June 2012, we have minus 3.6 percent on	10		2012, we tried that approach. And one of the	
11	excluding data points that were the highest	11		difficulties with it was understanding which	
12	percentage change. And then when we exclude	12		data points we were excluding. So before that	
13	the data points that are on a dollar value,	13		we hadn't used that approach, and since that	
14	the actual point is the highest over the	14		time we haven't used that approach, but no.	
15	period that we're looking, we get minus 2.9	15		So it was a short time that we'd use that.	
16	percent. And similarly we see for the ten	16	MS. C	JLYNN:	
17	year ending December, minus 1.7 becomes minus	17	Q.	Okay. So we're gone back to the actual	
18	2.4, a little more negative. We see a big	18		values?	
19	change for the five year ending June, plus 1.9	19	MS. E	ELLIOTT:	
20	down to minus 7.6; and the five year ending	20	А.	Yes.	
21	December, minus 0.4 to minus 0.8. And so	21	MS. C	GLYNN:	
22	actually if we were to do it that way to	22	Q.	Okay. Can you explain more about the	
23	exclude the highest dollar value, you actually	23		difference in the reformed factor treatment,	
24	get a bigger negative trend. And you know,	24		the difference between your approach and that	
25	again if you can just look at this and say,	25		of Mr. Doherty?	

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1	MS. ELLIOTT:	1	MS	S. GLYNN:
2	A. Okay. In the reform in the FA model they have	2	2	Q. Ms. Elliott, I'd like to bring you to Page 121
3	as part of their 20-year review of the	3	3	of Facilities' Memorandum.
4	experience, and so it's integral to their	4	4 MS	S. ELLIOTT:
5	model that they have looked at the reforms.	5	5	A. Okav.
6	So in the second half of 2004 they have	6	5 MS	S. GLYNN:
7	estimated that the reform had a very sizable	7	7	0. And we've highlighted the numbers on the
8	impact on the claims cost, and we're not	8	3	screen, just for ease. It's the exact same
9	finding that, in our view, intuitively	9	)	document with just some highlights in it.
10	reasonable. So FAI've got my numbers here.	10	) MS	S. ELLIOTT:
11	FA has said that for bodily injury the reform	11		A. Right. So I have a red arrow beside 2004-2.
12	cost reducedthat the reforms in 2004 caused	12	,	so in August 2004, the reforms in this
13	the loss cost to reduce by 37 percent, and	13	3	province were implemented. So you can kind of
14	they've said for property damage those reforms	14	ł	see that, hopefully, across the line, and I
15	or something in the second half of 2004 caused	15	5	highlighted each accident half years that you
16	the lost cost to reduce by 17 percent, and for	16	í	could compareyou know, starting with 1999.
17	accident benefits they've said that the 2004	17	,	the second half going forwardyou know, we
18	reforms or something in the second half of	18	3	could have done the whole column but just not
19	2004 caused AB to reduce by 73 percent, and it	19	)	to be so painful -
20	was a reduction down. 73 percent, and a	20	) MS	GLYNN:
$ _{21}^{-1}$	sustained reduction, not just a one-time dip.	21		O. So Ms. Elliott. can you walk us through what
22	that all the cost came down by 73 percent and	22	,	vou see in this data?
23	staved at that level barring, you know, loss	23	3 MS	S. ELLIOTT:
24	trend, changing it over time and we don't	24	ļ.	A. Sure. So starting with 1999, in the second
25	find that t be intuitively reasonable.	25	5	half, we see an average, and this is the
	Page 3/	L		Page 36
1	MS GLYNN <sup>.</sup>	「    1		average cost of claims for bodily injury So
	0 And can you explain why you find these to be	2	,	in 1999 the second half it was \$45,089 and
	unreasonable?	3	2	then it dropped down to \$38 674 and then one
4	MS. ELLIOTT:	4	ļ.	vear later it jumped up to \$75.498 and onward.
5	A. Well, we havewe review the rate filings on	5	5	And I calculated the percentage changes just
6	behalf of the Board and we have not seen that	6	5	out of my own curiosity. So starting with the
7	in other rate filings. In FA's own rate	7	7	45. dropping down to 38. it goes -14 percent.
8	filing last year for taxis, they assume that	8	3	+95 percent59 percent. +44 percent 26
9	the reforms had no impact on the cost. So	9	)	percent, $+19, +5, +39, -17$ . So you can see it
10	this is a complete turnabout by FA, that it	10	)	goes up and down a lot, it's very volatile
11	now sees these reform savings from the 2004	11	l	what the average claim size is going to be,
12	reforms, or something in 2004, and you know,	12	<u>,</u>	and to meI call that noise in the data,
13	sayingand I'm repeating what I said earlier,	13	3	there's a lot of things changing and it's
14	but saying that there's this sustained drop	14	ł	going up and down. So what FA has done,
15	from these reforms moving forward, that	15	5	they've looked at the change for 2004 and
16	everything shifted down, we don't find that to	16	5	they've seen a drop and said, oh, well, that
17	be intuitively reasonable. I can't explain to	17	/	must be the reforms or something that
18	anyone why that would be the case, it doesn't	18	3	happened, but you can look at the prior period
19	needthe reforms were for two hundred and	19	)	when it increased by 95 percent or it reduced
20	fiftysorry, \$2,500 deductible on all BI	20	)	by 59 percentthere's a lot of changes from
21	claimed and some other minor changes. I can't	21	L	period to period. And so just isolating 2004
22	think of any other event in the second half of	22	2	and seeing a decrease there and saying well,
23	2004 that would cause AB cost to decrease by	23	;	that was the reforms and I can measure that, I
24	73 percent; the reforms weren't for AB. I	24	ł	don't think so. I think there's so much noise
25	just don't find it intuitively reasonable, no.	25	j	in the data, up an down every year, that it's

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1	hard to isolate 2004 and say, oh yeah, my	cost	1		small claims one year and maybe some bigger		
2	for AB decreased by 73 percent. That's j	ust	2		claims the next year that are causing this		
3	some noise in the data. So I don't hav	re	3		change. So we're not trying to measure how		
4	comfort that the reform factors that FA h	as	4		many big claims you have one year, maybe not		
5	presented are intuitively reasonable, an	ıd	5		the next year. We're trying to measure the		
6	there are not many claims. Each accident	half	6		change in cost from year to year. So with		
7	year has about 50 to 70 claims with about	t 120	7		this noise in the data, it's very difficult to		
8	a year. There's not very much data, and i	it's	8		measure, very difficult. So I think that		
9	going up and down, up and down. So tryi	ng to,	9		explains why we see these jumps, this mix of		
10	you know, isolate here and present refe	orm	10		small and large claims from year to year,		
11	factors of these magnitude, I'm not certa	ain	11		yeah.		
12	that it's really measuring it correctly, and	I	12 N	AS. G	LYNN:		
13	think it's perhaps a flaw in the FA regress	ion	13	Q.	We'll move in a little bit of a different		
14	model.		14		direction now. Can you explain the		
15	MS. GLYNN:		15		differences in your approach and Mr.		
16	Q. Ms. Elliott, can you tell us why the avera	ige	16		Doherty's, relating to the claims handling		
17	claim size would change so much from y	vear to	17		costs?		
18	year?		18 N	AS. EI	LLIOTT:		
19	MS. ELLIOTT:		19	А.	Okay. In the FA filing, the data that they		
20	A. Yes, and one of the things we want to rem	nember 2	20		have or that they're using to calculate their		
21	when we're looking at the severity of the	ese 2	21		loss trend rates do not include loss		
22	average claim costs, we're trying to mean	sure	22		adjustment expenses, and in our analysis of		
23	what's the percentage change in cost from	n year	23		loss trend rates we do include the loss		
24	to year? So if everybody had a whipla	ush 2	24		adjustment expenses. And so if the change in		
25	injury and you wanted to look at the costs	s in 2	25		the loss adjustment expenses, the cost to		
		Page 38			Page 40		
1	1999 and 2000 andonce the change in	that	1		handle and to settle the claims, that changed		
2	whiplash injury, you know, and it might be	e two	2		from year to year, it's not too different in		
3	or three percent a year, the cost going up	)	3		the percentage change in costs of the		
4	withsurrounding, if you willclose to	)	4		indemnity, including or excluding, you won't		
5	inflation or the various heads of damage for	or a	5		get two differenta loss trend rate. And we		
6	bodily injury claim, but what happenswe	only	6		did some testing to see if there was any		
7	have about 120 claims a year and so one y	year	7		difference between calculating a loss trend		
8	you could have maybe pretty minor claim	is and	8		rate with or without it and we're finding that		
9	the next year you could have somebody th	at is	9		the difference is kind of immaterial.		
10	a paraplegic, and the next year there could	be	10 N	4S. G	LYNN:		
11	a different mix of claims. So you could ha	ave	11	Q.	Okay. Did Facility include claims handing		
12	small claims one year, maybe a real big cla	aim	12		costs in its prior filing to determine its		
13	the next year, maybe lots of big claims th	ie	13		loss trend rates?		
14	next year. You have a small group of claim	ms,	14 N	AS. EI	LLIOTT:		
15	and that mix of small claims and large clai	ims	15	A.	Yes. That was another difference inbetween		
16	changes from period to period, and there's	SO	16		their judgements last year and this year. In		
17	few of them, that this is what we're seeing	g,	17		last year's filing, they did include the		
18	these jumps in the severity. So when we have	OOK	18		claims handling cost when they calculated		
19	at1 mean, it's a really good example good from $$22,000 \text{ to }$75,000  what would be$	ng	19		filing they do not		
$ _{21}^{20}$	$\begin{array}{c} IIOIII $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $ $$		20 21 •	10 0	Innig, they do not.		
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	harmonic in the second	that	21 N	as. G	Okay In your roport Ma Elliott wa noted		
$\begin{vmatrix} 22 \\ 22 \end{vmatrix}$	talls us the types of cloims in this date, we		22 22	Q.	that there was some difference in the choice		
$\begin{vmatrix} 23\\ 24 \end{vmatrix}$	iust know roughly how many claims them	are	23 24		of the loss development factors between Oliver		
24	Just know roughly now many claims mere It is likely that there's a changing mix of		∠4 25		Wyman and Facility Could you bring up		
23	it is likely that there is a changing lillx of	4	<i></i>		wyman and Fachity. Could you offing us		

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1	through bodily injury as an example and tell	1	2012-2, there at the bottom? Okay. So here
2	us how the differences in the choice of the	2	we see, so this is for losses and loss
3	loss development factors affect the loss trend	3	adjustment expensesallocated loss adjustment
4	rates that you calculated?	4	expenses for 2012-2, the very bottom, second
5	MS. ELLIOTT:	5	column in, GISA has estimated the costs
6	A. Okay. Well, let me just say, first of all, I	6	including these allocated loss adjustment
7	know it gets confusing between loss	7	expenses, at 3499, so \$350 per vehicle. Okay,
8	development factors and trend factors, how	8	so that's GISA's estimate including ALAE, and
9	they all fit together. So loss development	9	now I'd like to go to FA's exhibit, and I
10	factors, we apply that to the losses that are	10	think it's 127 in my notes? Okay. So it's
11	reported today to say what will they	11	the same time period here, this columnmaybe
12	ultimately be when claims are all settled, and	12	we could go to the top for a moment just to
13	then we take those costs, what we think	13	get our bearings.
14	they'll ultimately be, and put them into the	14 MS. G	GLYNN:
15	trend model. So the higher those costs are	15 Q.	Yeah.
16	that you estimate with your loss development	16 MS. E	ELLIOTT:
17	factor, all else being equal, you're going to	17 A.	So this is bodily injury and the second column
18	get a higher loss trend rate. So that's kind	18	in from the -
19	of the connection with loss development	19 MS. G	GLYNN:
20	factors. If we think they're too high, you're	20 Q.	Ms. Elliott, we have Page 118, but that is the
21	likely getting too high a loss trend rate. So	21	correct reference? We're on the right page
22	that's the first part, and I think bodily	22	here?
23	injury is a good example we could look at so	23 MS. E	ELLIOTT:
24	we can see a little view, a glimpse, of loss	24 A.	Yes. That's fine, that's fine.
25	development factors. And there's some	25 MS. G	JLYNN:
	Page 42	2	Page 44
1	e		Ũ
1 1	information I wanted to provide, it's an	1 O.	Okay.
2	information I wanted to provide, it's an exhibit-I apologize, I don't know the number-	1 Q. 2 MS. E	Okay. Elliott:
2 3	information I wanted to provide, it's an exhibitI apologize, I don't know the number- -that's prepared by GISA, the General	1 Q. 2 MS. E 3 A.	Okay. ELLIOTT: So this is bodily injury Newfoundland and
1 2 3 4	information I wanted to provide, it's an exhibitI apologize, I don't know the number- -that's prepared by GISA, the General Insurance Statistical Agency, of their	1 Q. 2 MS. E 3 A. 4	Okay. ELLIOTT: So this is bodily injury Newfoundland and Labrador, again this is the commercial data,
1 2 3 4 5	information I wanted to provide, it's an exhibitI apologize, I don't know the number- -that's prepared by GISA, the General Insurance Statistical Agency, of their estimate.	1 Q. 2 MS. E 3 A. 4 5	Okay. ELLIOTT: So this is bodily injury Newfoundland and Labrador, again this is the commercial data, and the actual costs that FA has estimated for
1 2 3 4 5 6	information I wanted to provide, it's an exhibitI apologize, I don't know the number- -that's prepared by GISA, the General Insurance Statistical Agency, of their estimate. MS. GLYNN:	1 Q. 2 MS. E 3 A. 4 5 6	Okay. ELLIOTT: So this is bodily injury Newfoundland and Labrador, again this is the commercial data, and the actual costs that FA has estimated for each period, and if we scroll down to see the
2 3 4 5 6 7	<ul> <li>information I wanted to provide, it's an exhibitI apologize, I don't know the numberthat's prepared by GISA, the General Insurance Statistical Agency, of their estimate.</li> <li>MS. GLYNN:</li> <li>Q. It would be Number 6 in the package provided</li> </ul>	1 Q. 2 MS. E 3 A. 4 5 6 7	Okay. ELLIOTT: So this is bodily injury Newfoundland and Labrador, again this is the commercial data, and the actual costs that FA has estimated for each period, and if we scroll down to see the comparable numberand again, this is just the
1 2 3 4 5 6 7 8	<ul> <li>information I wanted to provide, it's an exhibitI apologize, I don't know the numberthat's prepared by GISA, the General Insurance Statistical Agency, of their estimate.</li> <li>MS. GLYNN:</li> <li>Q. It would be Number 6 in the package provided to -</li> </ul>	1 Q. 2 MS. E 3 A. 4 5 6 7 8	Okay. ELLIOTT: So this is bodily injury Newfoundland and Labrador, again this is the commercial data, and the actual costs that FA has estimated for each period, and if we scroll down to see the comparable numberand again, this is just the losses, it does not include the allocated loss
1 2 3 4 5 6 7 8 9	<ul> <li>information I wanted to provide, it's an exhibitI apologize, I don't know the number-that's prepared by GISA, the General Insurance Statistical Agency, of their estimate.</li> <li>MS. GLYNN:</li> <li>Q. It would be Number 6 in the package provided to -</li> <li>MS. ELLIOTT:</li> </ul>	1 Q. 2 MS. E 3 A. 4 5 6 7 8 9	Okay. ELLIOTT: So this is bodily injury Newfoundland and Labrador, again this is the commercial data, and the actual costs that FA has estimated for each period, and if we scroll down to see the comparable numberand again, this is just the losses, it does not include the allocated loss adjustment expenses. Again, coincidentally,
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>information I wanted to provide, it's an exhibitI apologize, I don't know the number-that's prepared by GISA, the General Insurance Statistical Agency, of their estimate.</li> <li>MS. GLYNN:</li> <li>Q. It would be Number 6 in the package provided to -</li> <li>MS. ELLIOTT:</li> <li>A. Okay. So this data iswe'll hold right there for a second. This is an exhibit produced by GISA, it is for Newfoundland/Labrador, commercial auto and it's bodily injury. So it's -</li> <li>STAMP, Q.C.:</li> <li>Q. Excuse me, miss, we don't have that document. We haveokay, I'm sorry. We'll get it. Thank you.</li> <li>MS. ELLIOTT:</li> <li>A. Okay. So GISA provides to the industry its estimate of what the ultimate costs are going to be for each of the accident half year for commercial automobile here in Newfoundland,</li> </ul>	1 Q. 2 MS. E 3 A. 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 MS. C 20 Q. 21 22 23 MS. E	Okay. ELLIOTT: So this is bodily injury Newfoundland and Labrador, again this is the commercial data, and the actual costs that FA has estimated for each period, and if we scroll down to see the comparable numberand again, this is just the losses, it does not include the allocated loss adjustment expenses. Again, coincidentally, they have \$349.99. It's quite coincidental that they're exact, but the GISA data includes allocated loss adjustment expenses and the FA data excludes it. So here we see that FA's number is 350 without the allocated loss adjustment expenses, and GISA's data is 350 with it. So you know, that is related to the loss development factors that are selected by FA. ELYNN: And what does this higher estimate on the loss development factor mean for Facility's loss trend? ELLIOTT:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>information I wanted to provide, it's an exhibitI apologize, I don't know the number-that's prepared by GISA, the General Insurance Statistical Agency, of their estimate.</li> <li>MS. GLYNN:</li> <li>Q. It would be Number 6 in the package provided to -</li> <li>MS. ELLIOTT:</li> <li>A. Okay. So this data iswe'll hold right there for a second. This is an exhibit produced by GISA, it is for Newfoundland/Labrador, commercial auto and it's bodily injury. So it's -</li> <li>STAMP, Q.C.:</li> <li>Q. Excuse me, miss, we don't have that document. We haveokay, I'm sorry. We'll get it. Thank you.</li> <li>MS. ELLIOTT:</li> <li>A. Okay. So GISA provides to the industry its estimate of what the ultimate costs are going to be for each of the accident half year for commercial automobile here in Newfoundland, and they do this for each province. So if we</li> </ul>	1       Q.         2       MS. E         3       A.         4       5         6       7         8       9         10       11         12       13         14       15         16       17         18       19       MS. C         20       Q.       21         22       23       MS. E         24       A.       A.	Okay. ELLIOTT: So this is bodily injury Newfoundland and Labrador, again this is the commercial data, and the actual costs that FA has estimated for each period, and if we scroll down to see the comparable numberand again, this is just the losses, it does not include the allocated loss adjustment expenses. Again, coincidentally, they have \$349.99. It's quite coincidental that they're exact, but the GISA data includes allocated loss adjustment expenses and the FA data excludes it. So here we see that FA's number is 350 without the allocated loss adjustment expenses, and GISA's data is 350 with it. So you know, that is related to the loss development factors that are selected by FA. ELYNN: And what does this higher estimate on the loss development factor mean for Facility's loss trend? ELLIOTT: All else being equal, having this higher

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	Page 44	5		Page 47		
1	trend rate.	1		of data?		
2	2 MS. GLYNN:	2	MS. G	LYNN:		
3	Q. Okay, and can you tell us how much higher the	3	Q.	It's Page 127.		
4	4 loss and the ALAE per vehicle would be?	4	MS. E	LLIOTT:		
5	5 MS. ELLIOTT:	5	А.	I think in the GISA exhibitthere we are,		
6	A. It ranges, and of course, the actual costs	6		yeah. Okay, all right. So what we have on		
7	7 would vary from year to year, but for bodily	7		the top part of our screen are the factors		
8	injury, it's easily between 8 to 10 percent of	8		that are selected by FA usingand they've		
9	the cost, so if you want to exclude allocated	9		presented their data with loss experience		
10	loss adjustment expenses, you take 8 to 10	10		only, they exclude ALAE, and on the bottom		
11	1 percent off.	11		part of our screen here we see GISA's selected		
12	2 MS. GLYNN:	12		factors and various averages, but the box are		
13	Q. So if FA excludes ALAE and GISA includes ALAE,	13		the selections made by GISA, and they're using		
14	4 can you explain why both numbers are 350?	14		a weighted average of all periods. And when		
15	5 MS. ELLIOTT:	15		you compare the factors that GISA has		
16	A. Okay. I can, and that's a little more	16		selected, 1.134, and then you compare the		
17	7 complicated, so we're going to take you to	17		factors that FA has selected, and you go		
18	some exhibits to show why that's occurring.	18		throughI mean, barring that there was		
19	Okay, I believe we have an exhibit which shows	19		rounding, the GISA presents three decimal		
20	the bodily injury loss development factors	20		places, but if you, you know, work through		
21	that are selected by FA, and those that are	21		that, you'll see that they appear to be		
22	2 selected by GISA.	22		identical. It appears that FA took the GISA		
23	3 MS. GLYNN:	23		factors for each of these periods from 12 to		
24	4 Q. So can you bring us to the page in FA's	24		18 as they go across here that are based on		
25	5 Memorandum, please?	25		losses and ALAE and use those. So rather than		
	Page 40	5		Page 48		
1	1 MS. ELLIOTT:	1	1	taking, which they present, the weighted		
2	A. So this, I believe, is FA's report and this is	2	;	average of all periods, FA presents that		
3	for bodily injury, and it's showing for each	3	!	numberso for example, in the 12 to 18 period		
4	4 six-month incremental period from 6 to 12 and	4	1	the number is 1.1274, it's kind of in the		
5	5 12 to 18, these are the factors that are	5	1	middle of all that, but they didn't select		
6	selected. So the row that says final	6	1	that. They picked up GISA's, based on 1.134.		
7	7 selection and then the product row is the	7	,	So it would appear that FA used GISA's		
8	8 multiplication of all those factors. So each	8		factors, which are based on losses and ALAE		
9	factor that FA has selected is under the final	9	1	that was not stated in the filing, and they		
10	selection, and what's interesting if, for	10	1	presented the experience based on losses only,		
11	example, you look at 12 to 18, they've	11		chose not to use them but, it appears, used		
12	selected 1.1340, but when you look at the	12	1	the GISA factors, and that would be the case		
13	averages that they have presented as	13		for all the periods except for the 6 to 12		
14	alternatives that they're going to select	14	ļ	period. GISA's factor in the box is 1.322,		
15	from, they don't match up and you can go	15	1	their factor reflects seasonality, and in the		
16	across each column and say, well, they re	16		case of FA, they ve selected 1.663, which is		
	close, but they don't match up. And now if we	17		differentthis is the only column that		
18	s could pull up GISA's selected factors, and I d	18		appears to be different than GISA, and as a		
	9 nke to see that fined up.	19	1	festers. So I have that emploine some of the		
$ ^{20}$	J MO. ULINN:	20		solutions. So I more that explains some of the		
$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	I Q. THALS DACK 10 EXHIDILO.		1	bigher loss development factors can contribute		
$ _{22}^{22}$	$\frac{2}{100} \text{ Mo. ELLIOTT:}$	22		to higher loss trend rates and it can explain		
	A. ORAY. THAIR YOU.	23		nart of the differences between the factors		
$\begin{vmatrix} 24 \\ 25 \end{vmatrix}$	5 0 What nage are we looking at in the first niece	24	]	that we're determining-loss trend rate		
140	2. That page are we rooking at in the mot piece	125		mat no io accomming 1055 field fate		

Page 491factors that we're determining.3MS. GLYNN:4Q. And the differences in your loss development5factors, are they material to the findings?6MS. ELLIOTT:7A. Yes. They can be. I mean, we had a8discussion at the prior-in our report, we9raised there were differences with accident10benefits, and although accident benefits is a11small coverage, there are some larger12differences there. And in this case here, I13frequency rate that started in14selecting, that are generally larger than if15they had used their own experience, it's16to ask FA were they seeling ad17selecting, that are generally larger than if18and higher rate indication, yeah.19MS.GLYNN:20Q. Ms. Elliott, can you explain the time period21and a higher rate indication, yeah.23MS. ELLIOTT:24A. Yes. So Facility, we've used 20 years of25experience, and in their approach they select26a aregressionthey choose to include a reform2q. Facility and how that is different2q. Facility and how that is different2a aregressionthey choose to include a reform2a aregressionthey choose to include a reform3and ther, se aregult of that, they 34a very select their loss trend rate, and4because they split this 20-year period	Noven	nber 17, 2014 Mult	ti-Pa	age	Verbatim Court Reporters
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2       FA are determining.       2       understood, but that's not a         3       MS.GLYNN:       3       understood, but that's not a         4       0. And the differences in your loss development       5       Q. So do you agree that there was a         6       MS.BLIJOTT:       6       MS.BLIJOTT:       6         7       A. Yes. They can be. I mean, we had a       7       MS.GLYNN:       7         9       raised there were differences with accident       9       7       MS.ELUOTT:         8       as cleacing, that are generally larger than if       14       2000/2001, and we were seeing         15       they had used their own experience, it's       16       16       16       16         16       teading to higher loss trend rates       17       frequency rate that started in that         18       and a higher rate indication, yeah.       19       o course, you know, rightly se         20       Q. Ms.Elliott, can you explain the time period       18       and instead of typing 2000, wet of ocurse, you know, rightly se         21       a regressionthey choose to include a reform       2       Q. Facility has also stated that its se use and they are effectively splitting their time period of that Size of period of that severity that se use and an eabult of that, they re ally-i-t can't see that and se using to select their loss tre	1	factors that we're determining and those that	1		misstatement. Well, they stated what they
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4       Q. And the differences in your loss development factors, are they material to the findings?       4       MS. GLYNN:         5       Q. So do you agree that there was a discussion at the prior-in our report, we raised there were differences with accident benefits, and although accident benefits is a 10       5       Q. So do you agree that there was a bodily injury frequency trend?         7       A. Yes. They can be. I mean, we had a discussion at the prior-in our report, we raised there were differences with accident benefits, and although accident benefits is a 10       7       MS. ELLIOTT:         8       A. No. We don't agree, and what small coverage, there are some larger 11       ask IA was that we were seein 12       provinces that there was a do stated there were seein 13       frequency rate that started in 14       2000/2001, and we were seein 14         16       leading to higher loss trend rates 17       frequency rate starting in tha 2       18         18       and instead of typing 2000, we t       10       sus of typing 2000, we t         20       MS. GLYNN:       10       of course, you know, rightly so 20         21       MS. BLLIOTT:       12       MS. GLYNN:         22       Q. Facility, we've used 20 years of 23       24       Mth?         23       MS. FLLIOTT:       14       A. Well, I don't accept the desco 25         24       A. Yes. So Facility, we've used 20 years of 25       1 <td< td=""><td>3 MS.</td><td>GLYNN:</td><td>3</td><td></td><td>understanding, yeah.</td></td<>	3 MS.	GLYNN:	3		understanding, yeah.
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25experience, and in their approach they select25MS. ELLIOTT:Page 501a regressionthey choose to include a reform2parameter in their model for the August 20043changes, and then as a result of that, they4are effectively splitting their time period of5the 20 years betweenprior to this August62004 and after, so effectively, they have an7eight-and-a-half year period of what they're8using to select their loss trend rate, and9because they split this 20-year period by11forces FA intonow they just have eight-and-12a-half years from the Augustfrom the second13half of 2004 to the end of 2012, they have a14shorter period of time now to use this eight-15and-a-half years. In our work, Oliver Wyman,16we select 10 years of experience and five17years of experience in making our selections,18yeah.19MS. GLYNN:20Q. In Mr. Doherty's testimony, he stated that he21change in the bodily injury frequency trend22superior I don't think is a rea23beginning in 2004. Is that correct?24MS. ELLIOTT:24MS. ELLIOTT:	24 A	Yes. So Facility, we've used 20 years of	24		that?
Page 501a regressionthey choose to include a reform2parameter in their model for the August 20043changes, and then as a result of that, they4are effectively splitting their time period of5the 20 years betweenprior to this August62004 and after, so effectively, they have an7eight-and-a-half year period of what they're8using to select their loss trend rate, and9because they split this 20-year period by9pecause they split this 20-year period by11forces FA intonow they just have eight-and-12a-half years from the Augustfrom the second13half of 2004 to the end of 2012, they have a14shorter period of time now to use this eight-15and-a-half years. In our work, Oliver Wyman,16we select 10 years of experience and five17years of experience in making our selections,18yeah.19MS. GLYNN:20Q. In Mr. Doherty's testimony, he stated that he21change in the bodily injury frequency trend22change in the bodily injury frequency trend23beginning in 2004. Is that correct?24MS. ELLIOTT:24MS. ELLIOTT:	25	experience, and in their approach they select	25	MS. El	LLIOTT:
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111	1	a regressionthey choose to include a reform	1	Δ	Well I don't accept the description that any
2parameter in their model for the highly boot23changes, and then as a result of that, they3superior, great, goodany w4are effectively splitting their time period of4you'd like to use. The data is5the 20 years betweenprior to this August5to work with. In terms of the62004 and after, so effectively, they have an6I think ours R square and F7eight-and-a-half year period of what they're7they're reallyI can't see tha8using to select their loss trend rate, and8any better, we're looking at a9because they split this 20-year period by9rate running from -5 to -6 per10these August 2004 reforms, it effectively10in terms of the severity that F11forces FA intonow they just have eight-and-11and describing that as superi12a-half years from the Augustfrom the second12agree. We looked at how the13half of 2004 to the end of 2012, they have a13from \$75,000 to \$35,000, the14shorter period of time now to use this eight-14very difficult to fit, and FA h15and-a-half years. In our work, Oliver Wyman,15response to our questions tha16we select 10 years of experience and five17T-Tests were poor for some18yeah.19from FA, it found that they co20Q. In Mr. Doherty's testimony, he stated that he20what the fit was, they couldn21thought Oliver Wyman agreed that there was	2	parameter in their model for the August 2004	2	71.	of the fits with this commercial data are
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7eight-and-a-half year period of what they're7they're reallyI can't see tha8using to select their loss trend rate, and8any better, we're looking at a9because they split this 20-year period by9rate running from -5 to -6 per10these August 2004 reforms, it effectively10in terms of the severity that F11forces FA intonow they just have eight-and-11and describing that as superi12a-half years from the Augustfrom the second12agree. We looked at how the13half of 2004 to the end of 2012, they have a13from \$75,000 to \$35,000, the14shorter period of time now to use this eight-14very difficult to fit, and FA h15and-a-half years. In our work, Oliver Wyman,15response to our questions tha16we select 10 years of experience and five16with the fit, that the P-Tests were poor for some18yeah.18in their model. In fact, in the19MS. GLYNN:19from FA, it found that they couldn20Q. In Mr. Doherty's testimony, he stated that he20what the fit was, they couldn21thought Oliver Wyman agreed that there was a21So describing any of these t22change in the bodily injury frequency trend23description. There's a lot of24MS. ELLIOTT:24MS. ELLIOTT:24the loss trend rates.25M. C. Thet is not correct.That was a25MS. CLIVNY	6	2004 and after so effectively they have an	6		I think ours R square and FA's R square
8using to select their loss trend rate, and8any better, we're looking at a9because they split this 20-year period by9rate running from -5 to -6 per10these August 2004 reforms, it effectively10in terms of the severity that F11forces FA intonow they just have eight-11and describing that as superi12a-half years from the Augustfrom the second12agree. We looked at how the13half of 2004 to the end of 2012, they have a13from \$75,000 to \$35,000, the14shorter period of time now to use this eight-14very difficult to fit, and FA h15and-a-half years. In our work, Oliver Wyman,15response to our questions tha16we select 10 years of experience and five16with the fit, that the P-Tests w17years of experience in making our selections,17T-Tests were poor for some18yeah.19from FA, it found that they co20Q. In Mr. Doherty's testimony, he stated that he21So describing any of these t21thought Oliver Wyman agreed that there was a21So describing any of these t22change in the bodily injury frequency trend22superior I don't think is a rea23beginning in 2004. Is that correct?24the loss trend rates.24MS. ELLIOTT:24the loss trend rates.25MS. CLYNN:25MS of VNN	7	eight-and-a-half year period of what they're	7		they're reallyI can't see that their fit is
9because they split this 20-year period by9rate running from -5 to -6 per10these August 2004 reforms, it effectively10in terms of the severity that F11forces FA intonow they just have eight-and-11and describing that as superi12a-half years from the Augustfrom the second12agree. We looked at how the13half of 2004 to the end of 2012, they have a13from \$75,000 to \$35,000, the14shorter period of time now to use this eight-14very difficult to fit, and FA h15and-a-half years. In our work, Oliver Wyman,15response to our questions tha16we select 10 years of experience and five16with the fit, that the P-Tests w17years of experience in making our selections,17T-Tests were poor for some18yeah.18in their model. In fact, in the19MS. GLYNN:19from FA, it found that they co20Q. In Mr. Doherty's testimony, he stated that he20what the fit was, they couldn21thought Oliver Wyman agreed that there was a21So describing any of these t22change in the bodily injury frequency trend23beginning in 2004. Is that correct?24MS. ELLIOTT:24the loss trend rates.25A. No.That is not correct.That were a	8	using to select their loss trend rate and	8		any better we're looking at a frequency trend
10these August 2004 reforms, it effectively10in terms of the severity that F11forces FA intonow they just have eight-10in terms of the severity that F12a-half years from the Augustfrom the second12agree. We looked at how the13half of 2004 to the end of 2012, they have a13from \$75,000 to \$35,000, the14shorter period of time now to use this eight-14very difficult to fit, and FA h15and-a-half years. In our work, Oliver Wyman,15response to our questions tha16we select 10 years of experience and five16with the fit, that the P-Tests v17years of experience in making our selections,17T-Tests were poor for some18yeah.19from FA, it found that they co20Q. In Mr. Doherty's testimony, he stated that he20what the fit was, they couldn21thought Oliver Wyman agreed that there was a21So describing any of these t22change in the bodily injury frequency trend22superior I don't think is a rea23beginning in 2004. Is that correct?23description. There's a lot of24MS. ELLIOTT:24the loss trend rates.25MS. CLVINT:25MS. CLVINT	9	because they split this 20-year period by	9		rate running from -5 to -6 percent range and
11forces FA intonow they just have eight-and-12a-half years from the Augustfrom the second13half of 2004 to the end of 2012, they have a14shorter period of time now to use this eight-15and-a-half years. In our work, Oliver Wyman,16we select 10 years of experience and five17years of experience in making our selections,18yeah.19MS. GLYNN:20Q. In Mr. Doherty's testimony, he stated that he21thought Oliver Wyman agreed that there was a22change in the bodily injury frequency trend23beginning in 2004. Is that correct?24MS. ELLIOTT:25A. No.26MS. CLYNN:27Yeats is pot correct.28A. No.29That is pot correct.20That is pot correct.24MS. ELLIOTT:25A. No.26MS. CLYNN:27That is pot correct.28MS. CLYNN:29That is pot correct.20That is pot correct.24MS. ELLIOTT:25MS. CLYNN:	10	these August 2004 reforms it effectively	10		in terms of the severity that FA has presented
12a-half years from the Augustfrom the second12agree. We looked at how the13half of 2004 to the end of 2012, they have a13from \$75,000 to \$35,000, the14shorter period of time now to use this eight-14very difficult to fit, and FA h15and-a-half years. In our work, Oliver Wyman,15response to our questions tha16we select 10 years of experience and five16with the fit, that the P-Tests v17years of experience in making our selections,17T-Tests were poor for some18yeah.18in their model. In fact, in the19MS. GLYNN:19from FA, it found that they co20Q. In Mr. Doherty's testimony, he stated that he20what the fit was, they couldn21thought Oliver Wyman agreed that there was a21So describing any of these t22change in the bodily injury frequency trend22superior I don't think is a rea23beginning in 2004. Is that correct?23description. There's a lot of24MS. ELLIOTT:24the loss trend rates.25M. No.That is not correct.That was a	11	forces FA intonow they just have eight-and-	11		and describing that as superior I wouldn't
13half of 2004 to the end of 2012, they have a13from \$75,000 to \$35,000, the14shorter period of time now to use this eight-13from \$75,000 to \$35,000, the15and-a-half years. In our work, Oliver Wyman,14very difficult to fit, and FA h16we select 10 years of experience and five16with the fit, that the P-Tests v17years of experience in making our selections,17T-Tests were poor for some18yeah.18in their model. In fact, in the19MS. GLYNN:19from FA, it found that they co20Q. In Mr. Doherty's testimony, he stated that he20what the fit was, they couldn21thought Oliver Wyman agreed that there was a21So describing any of these t22change in the bodily injury frequency trend23beginning in 2004. Is that correct?23MS. ELLIOTT:24the loss trend rates.25ANo.That is not correct.That was a	12	a-half years from the Augustfrom the second	12		agree. We looked at how the claims changed
1313141515161614shorter period of time now to use this eight-14very difficult to fit, and FA h15and-a-half years. In our work, Oliver Wyman,15response to our questions tha16we select 10 years of experience and five16with the fit, that the P-Tests w17years of experience in making our selections,16with the fit, that the P-Tests w18yeah.17T-Tests were poor for some19MS. GLYNN:19from FA, it found that they co20Q. In Mr. Doherty's testimony, he stated that he1921thought Oliver Wyman agreed that there was a2122change in the bodily injury frequency trend2323beginning in 2004. Is that correct?2424MS. ELLIOTT:2425ANo.26MS. CLYNN:	13	half of 2004 to the end of 2012, they have a	13		from \$75,000 to \$35,000, these average costs
15and-a-half years. In our work, Oliver Wyman,16we select 10 years of experience and five17years of experience in making our selections,18yeah.19MS. GLYNN:20Q. In Mr. Doherty's testimony, he stated that he21thought Oliver Wyman agreed that there was a22change in the bodily injury frequency trend23beginning in 2004. Is that correct?24MS. ELLIOTT:25A. No.26Diamond of the part of	14	shorter period of time now to use this eight-	14		very difficult to fit, and FA has stated in
16we select 10 years of experience and five16with the fit, that the P-Tests with the fit was, the point of the set of the point of t	15	and-a-half years In our work Oliver Wyman	15		response to our questions that they struggled
17years of experience in making our selections,17years of experience in making our selections,18yeah.19MS. GLYNN:20Q. In Mr. Doherty's testimony, he stated that he21thought Oliver Wyman agreed that there was a22change in the bodily injury frequency trend23beginning in 2004. Is that correct?24MS. ELLIOTT:25A. No.26That is not correct.27That is not correct.28That is not correct.29That is not correct.	16	we select 10 years of experience and five	16		with the fit that the P-Tests were poorthe
17171717171818yeah.18in their model. In fact, in the19MS. GLYNN:19from FA, it found that they co20Q. In Mr. Doherty's testimony, he stated that he20what the fit was, they couldn21thought Oliver Wyman agreed that there was a21So describing any of these t22change in the bodily injury frequency trend22superior I don't think is a rea23beginning in 2004. Is that correct?23description. There's a lot of24MS. ELLIOTT:24the loss trend rates.25A. No.That is not correct.That was a	17	vears of experience in making our selections	17		T-Tests were poor for some of the parameters
19MS. GLYNN:19from FA, it found that they co20Q. In Mr. Doherty's testimony, he stated that he19from FA, it found that they co21thought Oliver Wyman agreed that there was a20what the fit was, they couldn22change in the bodily injury frequency trend21So describing any of these t23beginning in 2004. Is that correct?23description. There's a lot of24MS. ELLIOTT:24the loss trend rates.25A. No.That is not correct.That was a	18	veah	18		in their model. In fact in the prior review
20Q. In Mr. Doherty's testimony, he stated that he20what the fit was, they could21thought Oliver Wyman agreed that there was a20what the fit was, they could22change in the bodily injury frequency trend21So describing any of these t23beginning in 2004. Is that correct?23description. There's a lot of24MS. ELLIOTT:24the loss trend rates.25A. No.That is not correct.That was a	19 MS	GLYNN <sup>.</sup>	19		from FA it found that they couldn't determine
21thought Oliver Wyman agreed that there was a21So describing any of these t22change in the bodily injury frequency trend21So describing any of these t23beginning in 2004. Is that correct?23description. There's a lot of24Ms. ELLIOTT:24the loss trend rates.25ANoThat is not correct.That was a	20 0	In Mr Doherty's testimony he stated that he	20		what the fit was they couldn't use the data
22change in the bodily injury frequency trend22superior I don't think is a rea23beginning in 2004. Is that correct?23description. There's a lot of24MS. ELLIOTT:24the loss trend rates.25ANoThat is not correct. That was a25	21	thought Oliver Wyman agreed that there was a	21		So describing any of these trend models as
23       beginning in 2004. Is that correct?       23       description. There's a lot of 24         24       MS. ELLIOTT:       24       the loss trend rates.         25       A       No.       That is not correct.	22	change in the bodily injury frequency trend	22		superior I don't think is a really appropriate
24 MS. ELLIOTT:     24 the loss trend rates.       25 A No. That is not correct. That was a	23	beginning in 2004. Is that correct?	23		description. There's a lot of uncertainty in
25 A No. That is not correct. That was a 25 MS CLANNI.	24 MS	ELLIOTT:	24		the loss trend rates
123 A. INU. THAT IS HUL COLLECT. THAT WAS A 120 MIN. GLY NN'	25 A	No. That is not correct. That was a	25	MS. C	LYNN:

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1 Q. Okay, and these loss development factors	that 1		periods are different for the different
2 we just discussed that were higher in	2		coverages in last year's review. A second
3 Facility's than Oliver Wyman's, how do	they 3		issue is that in last year's review, FA found
4 come into play in this superior fit	4		that the reform factor for the 2004 reforms
5 discussion?	5		had no impact on claim costs; this year they
6 MS. ELLIOTT:	6		have determined that they do have a very large
7 A. Well, if we're taking into question that	7		impact. Another item is that in last year's
8 underlying data that's used to calculate the	ese 8		review, for bodily injury severity and for
9 loss trend rates, so if we're taking into	9		accident benefits, FA found that it couldn't
10 question those loss development factors, th	hen 10		figure out a loss trend rate and so chose to
11 it's pretty hard to have a discussion about	a  11		use a private passenger experience for
12 superior fit if you're questioning the data	12		accident benefits, for both frequency and
13 that's used in the model to calculate this	13		severity, and in the case of bodily injury, it
14 superior fit, so.	14		chose to use a private passenger for severity.
15 MS. GLYNN:	15		And then there's one final differenceis that
16 0. Are you trying to pick a loss trend model t	that 16		for uninsured auto last year FA used the
17 has the best R squared?	17		third-party liability selection and in this
18 MS FLLIOTT	18		vear's filing they've chosen to use the
19 A No and I think that's important to reiterate	e 19		accident benefits selection
20 here What we're looking for is to strike	a 20	MS G	I YNN <sup>.</sup>
21 halance between responsiveness to the dat	a and $21$	0	So that's the differences in how they chose
22 stability for each review that we prepare-	- 22	×۰	their trend rates. Can you summarize the
23 each loss trend review that we prepare ea	1ch 23		differences in the value of those loss trend
24 six months. So we're not trying to look at	it 24		rates?
25 and say okay I've got the best R square	27	MS F	
	, Dece 54	1101 2	Dago 56
this model is an <b>P</b> square of 45 and it's	Page 34		Vac. So last year they were calculating a
1 unis model is an K square of 43 and it s hotton then my other D square of 42 and it s	/m 1	А.	res. So last year, they were calculating a
2 Detter than my other K square of 42, so I			4.0 and just as a reminder we looked at
3 going to pick it, or whatever the humber i	8. 3		4.0, and just as a reminder we looked at
4 we re not attempting to do that here beca	use 4		degreesed by 17 generate we talked shout that
5 thewith different time periods, different	1 5		decreased by 1/ percentwe taked about that
6 exclusions, the results change dramatican	y. 6		the last transfer Et has never a decrease in
7 So what we re trying to do is have a	/		the loss trend rates, FA has now presented in
8 responsive and stable approach, and strike			This finning a migner trend rate of +4.4.
9 balance of that, and that's why we have	an 9		Property damage last year was 5.8 for the
averaging approach, yean.	10		past, 1.9 for the future. Their new trend
11 MS. GLYNN:			fate is 2.4 percent and in fact, the lost cost
12 Q. I d like to bring up Exhibit 4 from the	12		from 2011 to 2012 decreased by about 12
13 Actuarial Memorandum. It's actual	y 13		they had 1 ( newspart for a past rate and they
14 Information Item No. 5. From last year	S 14		they had 1.0 percent for a past rate and then
15 filing, sorry. I nank you. And Ms. Elliot	i, 15		they had 4.2 for a future rate, and this year
16 can you bring us through the differences	1n 16		they have $+7.6$ and the lost cost this year for
FA's selected loss trends from this year an	id 17		this coverage also decreased for commercial
18 last year?	18		auto by seven percent.
19 MS. ELLIOTT:	19	MS. G	LYNN:
20 A. Okay. All right, so thei guess there's a		Q.	indications would change if they had fallows 1
21 couple of differences infrom the prior	21		the Doord's guideling loss trand rates
22 review and this review. First is the time	22		developed by Oliver Warran?
25 periods used in last user's areiter	23	MCE	developed by Onver wyman?
124 unite periods used in last year's review	24	MS. E	LLIUII: Vog It's presented in our report. It14
125 compared to this year's review, and the th	me [25]	Α.	res. It's presented in our report. It would

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1	decrease by approximately 27 percentage	1		increase, so in our view there was no rate
2	points.	2		inadequacy. The 50 percent change that was
3	MS. GLYNN:	3		approved was supported and there would be no
4	O Thank you. Going to change gears here now.	4		rate inadequacy, but in this rate filing, FA
5	and we're going to move into the credibility	5		has come forth and said we have a rate
6	standard and this was identified as an issue	6		inadequacy from our prior work and we don't
	in your report Can you explain why the	7		agree with that assumption that FA is putting
	change in the number used for the credibility			forth that their rates are inadequate
9	standard is an issue?	9	MS G	I YNN <sup>.</sup>
10	MS_FLLIOTT	10	0	And what impact does this change have on the
	A. As I thinksome of our introductory comments	11	ν.	rate indications?
12	that I'd made one of the things that we're	12	MS E	
13	looking for is consistency in the prior report	13	A	So if we make the assumption that the prior
14	and the current filing and in this filing FA	14	11.	rates with the rate level that the Board
15	has changed its full credibility standard so	15		approved that the rates were adequate the
16	how many claims you need to say that your data	16		indication was +50 the Board approved +50if
17	is fully credible and reliable and in this	17		we you know assume that's correct then that
18	filing $F_{\Delta}$ has lowered that number. So they've	18		change making that assumption that would
19	lowered it which gives more weight to its own	19		reduce the rate level indication that FA has
$ _{20}^{1}$	experience for taxis and as a result it	20		presented by about 24 percentage points
$ _{21}^{20}$	increases their rate indication. But the	21	MS. G	LYNN:
22	issue is, for us, is that there's a change in	22	0.	Okay. I'd like to bring up Page 20 of your
23	the filing without any support for the change	23	Č.	report. Ms. Elliott. and can you summarize
24	in that standard so that was raised as an	24		here you talk about uncertainty, and I'd like
25	issue in our report.	25		you to summarize those issues of uncertainty
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1	MS GLVNN:	'  <sub>1</sub>		for us
$\begin{vmatrix} 1\\2 \end{vmatrix}$	O And what impact does the change in the		MS F	
	credibility standards have on the rate	3	Δ	So I guess the first issue that's important to
4	indications?	4	71.	remember if that we're dealing with very
5	MS_ELLIOTT	5		limited data We're dealing with taxi data
6	A. It's estimated aboutthat change caused a	6		very small volume, and it's volatile, so that
	seven percentage difference in the rate	7		adds considerable uncertainty to the
8	indication. So if they'd used the standards	8		calculated rate indications, and there are
9	from last year it would be about seven	9		some other factors thatwhen you determine
10	percentage points lower, the rate indication.	10		what the rate indications are, that we also
11	MS. GLYNN:	11		have to think about the uncertainty of those
12	Q. Okay. Complement of credibility was also	12		factors, and one isthe loss development
13	identified an issue. So can you detail the	13		factor, is that FA applies to its own taxi
14	difference in the complement of credibility	14		experience, their baseso FA is including the
15	applied by yourself and by Facility?	15		last five years of experience in determining
16	MS. ELLIOTT:	16		its rate indications, so from 2008 to 2012,
17	A. Okay. Now we don't have any objection with	17		the taxi losses, and it has to estimate what
18	the methodology that FA is using for the	18		those costs will ultimately be with these loss
19	complement of credibility approach. Our issue	19		development factors. But the loss development
20	is that FA is assuming that their current	20		factors that it uses to apply to the taxi
21	rates are inadequate. So in the prior filing,	21		experience, it's based on its non-private
22	we had done our analysis and we estimated the	22		passenger experience, and this is calculated
23	rate indication for FA could support a +50	23		forI think we can go to the next page,
24	percent change. FA proposed a +50 percent	24		please, this is calculated separately for
25	increase, and the Board approved $a + 50$ percent	25		bodily injury and property damage using that

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1	non-PPV experience, but then in applying i	t.	1		So the third column, then, we have the
2	FA has to combine the bodily injury and the	he	2		accident year, we've got the claims that are
3	property damage together, which forms th	ird-	3		reported at the end of 2012 that was provided
4	party liability, TPL, and so some assumptio	ns	4		in last year's report, and what they estimated
5	have to be made, how you weight that BI at	nd PD	5		the ultimate cost would be. So let's look at
6	using the non-PPV now to apply to taxi		6		the middle row, 2009. At the end of 2012
7	experience. So the bottom line is you're		7		sorry, June 2012, in last year's filing they
8	applying loss development factors based	on	8		had that data, they estimated the cost at \$2.6
9	non-PPV data to taxis and have to make so	ome	9		million. One year later in this filing, going
10	assumptions on applying that, how you we	eight 1	0		across that row, their estimate of what the
11	it together, it's a different experience. So	1	1		ultimate cost would be is \$2.3 million, and
12	this ads to the uncertainty of the findings.	1	2		that difference in red on the right is
13	Another item is the claim count developm	nent 1	3		\$304,000. That's a 12 percent decline. So
14	factors. The factors that are used by FA are	2	4		all those red numbers mean, in the far column,
15	the industry factors, they're not based on	1	5		that the costs that they estimated this year,
16	FA's own taxi experienceand again, that	's 1	6		one year later, for taxis is less than what
17	just due to the limited data, it adds to the	1	7		they estimated last year. And this again adds
18	uncertainty of the findings. And another ite	em 1	8		to the uncertainty of the finding, the changes
19	is the loss trend rates, and even if you were	2	9		that we have from year to year. It's very
20	to accept the loss trend rates that FA has	2	20		hard to estimate what those costs are, it adds
21	calculated, and if we thought they were rig	ht, 2	1		to the uncertainty. So it's just another
22	we're taking loss trend rates based on	2	2		example.
23	commercial data and applying it to taxi dat	a; 2	3 1	MS. G	LYNN:
24	that adds to uncertainty. And on top of that	2, 2	4	Q.	Ms. Elliott, is there anything else that you
25	from these commercial loss trend rates, v	ve 2	5		would like to cover?
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1	have bodily injury and we have prope	rtv	11	MS. E	LLIOTT:
2	damage, and have to combine that toget	her.	2	A.	Let me look at my notes here, see if I missed
3	weight that together to apply in the TPI		3		anything from. I think what we have here is a
4	because we only have TPL taxi experience	. So	4		filing that's presented with a 50 percent rate
5	even if you accept FA's commercial loss th	rend	5		increase, and the FA's taxi experience has
6	rates, we're applying it to taxi data,		6		been poor, but we've just, last year,
17	uncertainty, and we have to combine the H	3I and	7		reviewedthe Boardand we reviewed the
8	PD into TPL to apply it because you only h	ave	8		filing and the Board approved a 50 percent
9	taxi as TPLmore uncertainty.		9		rate increase for taxi experience. So we
10	MS. GLYNN:	1	0		thought that the poor experience was addressed
11	Q. Ms. Elliott, I'd also like to bring up the	1	1		with that large rate increase last year. So
12	response to Question 3 from Facility dat	ted 1	2		now we have FA presenting another rate filing
13	April 9th.	1	3		with a proposed increase north of 50 percent
14	MS. ELLIOTT:	1-	4		and the suggestion that they will be coming in
15	A. Okay.	1	5		for additional rate increases next year again.
16	MS. GLYNN:	1	6		And so I think theyou know, the key concern
17	Q. And I wonder if you can explain the cha	irts 1	7		is what can be done to curb these costs,
18	that we see here?	1	8		contain these rate increases? Because they're
19	MS. ELLIOTT:	1	9		not sustainable. And so I would say that it's
20	A. Sure. So in this question, we're asking FA	to 2	20		important for all parties to look at what can
21	present what were their estimates for tax	$ _2$	1		be done to contain the rate increases that are
22	experience, what the costs will ultimately	be 2	2		being proposed, and our focus has been on loss
23	from the prior filing to this filing. so the	2	3		trend rates and the losses, but there are
24	top matrix is the TPL coverage and the bot	tom $\begin{bmatrix} -2\\ 2 \end{bmatrix}$	4		other components to the whole premium that's
25	one is AB. Well, we can just focus on TP.	L. 2	5		being charged. And I would suggest that it

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1	would be very helpful if FA took the	0	1		the questions tofor you this morning. I'm
2	initiative to look at the costs for		2		going to first start with the general
3	underwriting, look at the costs for claims		3		questions, probably more of an overview on the
4	handling, look at the costs for commission		4		trend selection process, and I wonder if you
5	look at those costs and say how can I find a		5		can state what your goal or objective is in
6	way to bring down this premium? And the F	Ϋ́Α,	6		the trend selection process that you have
7	in its role, could take the initiative to find		7		chosen?
8	ways other than one big rate change, you kno	w,	8	MS. E	LLIOTT:
9	last year, asking for another one this year		9	А.	Our goal in it?
10	and suggesting that they're coming back nex	t	10	MS. N	EWBURY:
11	year. I think it's not sustainable, the rate		11	Q.	Yes.
12	increases that are proposed here, so somebody	У	12	MS. E	LLIOTT:
13	has to sit down and think about what other		13	А.	Well, we're preparing our reports, our review,
14	ways canwhat else can be done to contain		14		for the Board, these are Board guidelines, and
15	these costs, and it cannot be just one big		15		these are loss trend rates that are provided
16	rate increase after another, so.		16		for insurers to use if they so choose to, and
17	MS. GLYNN:		17		we're trying to provide loss trend rates that
18	Q. Ms. Elliott, we have covered out material mu	ch	18		are both responsive to the data and stable
19	quicker than we had estimated. So we are		19		from review to review that we prepare.
20	actually ready to turn you over to Mr. Stamp.		20	MS. N	EWBURY:
21	MS. ELLIOTT:		21	Q.	And the actual model that you've chosen, the
22	A. Okay.		22		trend selection process that you use, is this
23	MS. GLYNN:		23		your own as opposed to process described
24	Q. We had discussed taking a break at 11:00, so	Ι	24		prescribed by the Board or anyone else?
25	think the timing worked out pretty good.		25	MS. E	LLIOTT:
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1	CHAIRMAN:		1	А.	That's correct. The Board does not prescribe
2	Q. So we'll adjourn until 11:25, is that correct?		2		the process, yeah.
3	MS. GLYNN:		3	MS. N	EWBURY:
4	Q. Does that work?		4	Q.	Okay, and there were no directions or
5	CHAIRMAN:		5		guidelines in terms of the detail or the
6	Q. That agreed?		6		content of that process?
7	STAMP, Q.C.:		7	MS. E	LLIOTT:
8	Q. That's fine.		8	А.	That's correct.
9	MS. GLYNN:		9	MS. N	EWBURY:
10	Q. Yes. Thank you.		10	Q.	And now I understand that you have done
11	CHAIRMAN:		11		similar things for other jurisdictions such as
12	Q. Okay.		12		the Nova Scotia Board. Is the trend selection
13	(RECESS)		13		process that you use in your trend reports for
14	CHAIRMAN:		14		Nova Scotia also something that you've derived
15	Q. So I believe it's over to you, Mr. Stamp, if I		15		on your own?
16	-		16	MS. E	LLIOTT:
17	STAMP, Q.C.:		17	A.	Yes. We're not given any direction from the
18	Q. That's right. We're taking our cross-		18		Nova Scotia Board in that process.
19	examination first.		19	MS. N	EWBURY:
20	CHAIRMAN:		20	Q.	Okay. I'm going to refer to Page 11 of your
21	Q. Yes.		21		report, the May 16th, 2004 report, and in that
22	MS. PAULA ELLIOTT, CROSS-EXAMINATION BY MS. JENNI	FER	22		report you state that "Oliver Wyman's selected
23	NEWBURY		23		loss trend rates are based on various
24	MS. NEWBURY:		24		regression analysis over different periods of
25	Q. Thank you. Hi, Ms. Elliott. I will be asking		25		time spanning ten years or less, with data

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1 exclusion and use of parameters that	we find 1		commercial data is due to its volatility and
2 reasonable," and I understand from	n your 2		uncertainty, we're trying to be bothstrike a
3 evidence and from your report gener	ally that 3		balance between the responsiveness and the
4 you are using only ten years, is that c	orrect? 4		stability to our findings. So in this
5 MS. ELLIOTT:	5		particular circumstance, we're choosing to
6 A. The loss trend rates that we present	in our 6	i	look at ten years.
7 report as using ten years and five ye	ars of 7	MS. N	EWBURY:
8 experience.	8	Q.	Okay, and was there anything about the
9 MS. NEWBURY:	9	)	particular analysis itself that confirmed that
10 Q. And five years.	10	)	you would keep the ten-year approach for this
11 MS. ELLIOTT:	11		particular review?
12 A. But within the data that we look at, w	ve have 12	MS. E	LLIOTT:
13 15 years of experience.	13	Α.	Not that I recall, that there was something
14 MS. NEWBURY:	14		specific, no.
15 Q. Okay. So you look at 15 years of ex	perience 15	MS. N	EWBURY:
16 for data, but the loss trend rates are b	based 16	Q.	Okay. So basically this choice of ten years
17 on ten years and five years?	17		was basically a pre-determined choice because
18 MS. ELLIOTT:	18		you've used this in previous reviews, you
19 A. That's correct.	19		wanted to stick with that approach?
20 MS. NEWBURY:	20	MS. E	LLIOTT:
21 Q. Okay, and what would be the problem	n with using 21	Α.	What we like to do, as I said, is we look at
22 something greater than ten years for t	he trend 22		all the data, all the experience, the 15
23 rate analysis?	23		years, and one of the things that I find quite
24 MS. ELLIOTT:	24		interesting is to slice it off to look at the
25 A. I don't know if you'd call it a problem	n, it's- 25		first five years, the middle five years and
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1 -we've taken an approach here to	look at ten 1	1	the most recent five years, and see what those
2 years or less, yeah.	2	i i	findings are. And also, you know, looking at
3 MS. NEWBURY:	3	1	the ten years of experience and the five years
4 Q. Okay. So if you had chosen, say,	12 years or 4	. (	of experience, we're trying to see are there
5 15 years, would that be an equa	Illy valid 5	]	patterns that are changing, and we're
6 approach?	6	i 1	reviewing the experience to see, to try to
7 MS. ELLIOTT:	7	' 1	measure, what are the patterns, what are the
8 A. I think the issue when you choo	ose a time 8		changes going on. And if there is something
9 period, you want to be consisten	it in that 9	) 1	that we found where we felt the data was
10 review for that particular set of d	ata that 10	) (	credible enough and it was telling us
11 you're reviewing, from review to	review. 11	1	something, that perhaps ten years was wrong,
12 MS. NEWBURY:	12	]	perhaps we should only be looking at five
13 Q. Okay. So if you had decided, for	example, a 13		years, then we would take that into
14 number of years ago, I'm going to	o choose ten 14	. (	consideration and we would explain our
15 years, you're saying that you shou	Ild use that 15	1	rationale for the changes. So in this
16 each and every year afterward?	16		circumstance, we're starting off with ten
17 MS. ELLIOIT:	17		years and five years in our review, and if
18 A. No. I think that's maybe a rigid st	atement, to 18		evidence was to present itself that, you know,
19 say that we would never consider	er anytning		we thought, gee, we should do something
20 eise. We do, we have 15 years of	uata, and I		thet And we also present over a set to the
21 definitely will run the button look	ling at all 21	1	inal. And we also present our report to the
15 years and many other ways, an	u sometimes I 22	, 1	insurers for their comment, and if we had
<sup>25</sup> Just look at the top live, the midd	$\begin{array}{c} \text{IIC IIVC,} \\ \text{Is at it but} \end{array} = 23$		woit a minute, we think you should be doing
24 the boltom live, we full many 100	$rac{1}{rac}{1}{rac{1}{rac}{1}{rac}{rac}{1}{rac}{rac{1}{rac}{1}{rac}{rac}{rac}{rac}{rac}{rac}{rac}{rac$		this then we would look at that and consider
125 One of the things that we have	III UIIS 23		and, men we would look at that ally constant

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1 that, but we haven't received that.		1	you did, how many outliers did you exclude,	
2 MS. NEWBURY:	2	2	how many data points did you exclude?	
3 Q. So a few questions arising out of that, M	Ms.	3 MS	S. ELLIOTT:	
4 Elliott. First of all, you've mentioned th	at 4	4	A. I can't recall that.	
5 you use 15 years of data, why not use 20	)? I 5	5 MS	S. NEWBURY:	
6 understand that there would be 20 years	s of	6	Q. Okay. Have you done anyselected trend rates	
7 data available to you.	-	7	that are based on other than ten or five	
8 MS. ELLIOTT:	1	8	years?	
9 A. You could go back farther than 20. I m	iean,	9 MS	S. ELLIOTT:	
10 you can get easily 25 years from the G	ISA 10	0 .	A. In some circumstances. Are you referring to	
11 portal. It's our choice to look at the last	: 11	1	commercial auto here in Newfoundland?	
12 15 years. We don't think that going b	ack 12	2 MS	. NEWBURY:	
13 fromI think that would be 1993 to 1998	3, that 13	3	Q. Just generally speaking. I'm trying to ask,	
14 that is really relevant today when we'	re 14	4	now, general questions about your approach and	
15 trying to set rates that will be in effect in	1:	5	the choices that you've made, and you've	
16 2015.	10	6	indicated that you generally pick a consistent	
17 MS. NEWBURY:	17	7	approach. I'm wondering if, in other	
18 Q. And you mentioned that youwhen you	look at 18	8	jurisdictions, you've provided reports and	
19 the 15 years of data, you segment it, th	ne 19	9	produced reports based on a trend analysis	
20 earliest five years, the middle five years	and 20	0	other than for ten years and five years.	
21 the most recent five years. Have you actu	aally 2	1 MS	S. ELLIOTT:	
done an analysis of a 15-year trend rate?	22	2	A. Yes. Definitely different coverages that are-	
23 MS. ELLIOTT:	23	3	-say like collision coverage, we would	
24 A. Yes. We can easilyour model is ve	ery 24	4	typically use fewer years, definitely, there.	
25 flexible, it's very sophisticated. We can	do 25	5	Yeah. For a variety of reasons or external	
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1 an analysis of 15 years, 12 years, 13 year	rs, 7	1	forces, sometimes data. There could be	
2 years. Any number, we do it.	2	2	changes that have gone on in a certain	
3 MS. NEWBURY:		3	province. So yes, we would definitely	
4 Q. Right. I understand from your evidence	this	4	consider the environment when we're running	
5 morning that you do, indeed, have a flex	cible !	5	our analysis, yeah.	
6 model, but did you actually do the 15-y	year (	6 MS	S. NEWBURY:	
7 trend analysis in this case?	-	7	Q. Okay, and have you ever done this for the	
8 MS. ELLIOTT:	8	8	Board here for a Newfoundland benchmark?	
9 A. Yes. I spent considerable time going thr	ough	9 MS	S. ELLIOTT:	
10 the analysis. We run many, many versio	ns, and 10	0 .	A. I don't have at my fingertips all the reports	
11 this data actually takes a lot of time to	- 11	1	that we've prepared, but it's certainly	
12 select and to review and understand the	hat 12	2	possible that we might have.	
13 patterns in the data, because it's so	13	3 MS	S. NEWBURY:	
14 volatile. I can make a comparison for y	/ou. 14	4	Q. And in doing your 15-year trend analysis,	
15 In other provinces like Ontario where we	e have 15	5	which I understand that you did do in your	
16 a large sample of data, it is much easie	er 10	6	review for this particular rate application,	
17 because we get more consistent trends.	Here, 17	7	did you determine whether there was a	
18 because the data is so thin, we're dealing	ng 18	8	consistent trend or more than one trend?	
19 with so few claimsI said there's about	120 19	9 MS	S. ELLIOTT:	
20 or so a year, it's very difficult, it's very	20	.0	A. Well, we did not choose a 15-year trend in	
21 challenging to pick trends. So we end	up 2	1	this, and I don't have that number, I don't	
22 looking at a lot of different alternatives	\$ 22	2	recall what that value was, yeah.	
23 here because it's so challenging.	23	3 MS	. NEWBURY:	
24 MS. NEWBURY:	24	4	Q. Okay.	
[25 Q. Okay, and in the 15-year trend analysis	that 25	5 MS	S. ELLIOTT:	

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1	A. I would hazard a guess given theand I gues	s	1		for the more recent experience are subject to
2	it's an educated guess, given the differences		2		change. That's different than being volatile.
3	that we've seen in the loss trend rates for		3	MS. N	EWBURY:
4	this commercial auto in Newfoundland, how	v it	4	Q.	Okay, and when you're referring to, you know,
5	can change so significantly whether you're		5		the concerns of using 20 years of data, about
6	using ten years of data, five years of data,		6		the volatility, which type of volatility were
7	exclude this point or exclude that pointI'm		7		you referring to?
8	pretty sure we'd get a very different number		8	MS. E	LLIOTT:
9	if we looked at 15 years as well.		9	А.	Well, in looking at the 20-years of data, and
10	MS. NEWBURY:	1	10		we had a chart out earlier today that I'd
11	Q. And you have no sense as to whether that we	ould 1	11		highlighted the yellow, and you can see the
12	be a higher number or a lower number?	1	12		changes in the average claim size, that it
13	MS. ELLIOTT:	1	13		went up and down for really all the periods.
14	A. Not off the top of my head. I cannot recall.	1	14		So you can see that volatility in the change
15	MS. NEWBURY:	1	15		in that average severity amount over the
16	Q. If you have a situation where you don't think	κ  1	16		entire period.
17	the trend has changed over a period of 20	1	17	MS. N	EWBURY:
18	years, would you not get a better estimate of	1	18	Q.	So the change in the average severity, and is
19	the trend if you use all the 20 years of data	1	19		this based on commercial-industry data or is
20	if you believe that there is no change in the	2	20		it taxi? I'm just trying to make sure I
21	trend?	2	21		understand.
22	MS. ELLIOTT:	2	22	MS. E	LLIOTT:
23	A. Well, if the data is stable enough, then	2	23	A.	Well, we'll make that clear here. The loss
24	you're going to see more consistency or you	u 2	24		trend rates that FA used in its rate filing is
25	can develop and understand the rationale for	r 2	25		based on commercial industry data in
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1	the changes in the data. So if you have		1		Newfoundland.
2	coverage where there've been no reform	L I	2	MS. N	EWBURY:
3	changes, there has been no weather issue,		3	Q.	Yeah, and that's the volatility that you're
4	everything is nice and smooth, then you can	n	4		referring to now?
5	often run a 20-year trend and a five-year		5	MS. E	LLIOTT:
6	trend because that data is so stable and large		6	А.	There is volatility in that commercial data,
7	and voluminous that you get pretty consisten	ıt	7		yes.
8	trends. Certainly you can do that, but that		8	MS. N	EWBURY:
9	is not the case with this data. This data is		9	Q.	Okay, and so you're saying that the volatility
10	not stable at all.	1	10		that would cause you some concerns in using
11	MS. NEWBURY:	1	11		all 20 years of data is due not necessarily to
12	Q. Okay, and you're referring to the commercia	al 1	12		how the claims costs are assessed or
13	industry data?	1	13		estimated, which would be a recent type of an
14	MS. ELLIOTT:	1	14		issuethe more recent that type of data, the
15	A. Yes. That's been used here, yes.	1	15		more volatile that would be, but you're saying
16	MS. NEWBURY:	1	16		it's due to the fact that there have been
17	Q. Yeah, and I understand from your evidence t	his 1	17		larger, you know, changes, fluctuations over
18	morning, and correct me if I'm wrong, but n	ny 1	18		the years?
19	understanding is that the more recent the	1	19	MS. E	LLIOTT:
20	data, the more volatile it is. Is that	2	20	A.	Right. There's two issues with the data, and
21	correct?	2	21		I'll reiterate what we had said earlier today.
22	MS. ELLIOTT:	2	22		The data for each accident year changes. So
23	A. No. Not the more recent the data, the more	2	23		once accident year, we looked at the average
24	volatile it is. That's not what we're saving	2	24		severity, it was \$75,000, one year later it
25	in termsthe estimates of what the losses are	2	25		was \$35,000. So there's a lot of volatility

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	Page 81		Page 83
1 in the data. The other issue is that when	1	1 M	MS. ELLIOTT:
2 we're dealing with these loss amounts the	at 2	2	A. No, no.
3 we're trying to fit a trend line over, they're	3	3 M	MS. NEWBURY:
4 estimates, they're subject to change, so dat	a- 4	4	Q. Okay.
5 -it can take a number of years for large	5	5 M	MS. ELLIOTT:
6 claims to settle. So the more recent period	s e	6	A. The change from year to yearone is a stable
7 of time are subject to more change in the	e 7	7	issue, you don't really have stable data. So
8 estimates, not necessarily the volatility for	8	8	one is the change from year to year. We had a
9 that period. The mix of the small or the	9	9	very good example earlier, I'm going to repeat
10 large claims are what they are for that year	, 10	0	it again. We had \$75,000 one year, \$35,000
11 but it's the estimates of those claims for the	e 11	1	the next. That's volatility from year to
12 more recent years that are subject to change	ge 12	2	year. Another concern in dealing with this
13 as those claims are handled and settled.	13	3	data, and with bodily injury data, it takes a
14 MS. NEWBURY:	14	4	long time for these claims to settle and
15 0. Okay, and then back to the 20-years issue.	why 15	5	close. Some of the claims are complicated.
16 vou would not use 20 years of data. So th	ne 16	6	someone could be a paraplegic, there's death
17 volatility that you're referring to, you're	17	7	injuries all sorts of claims that are very
18 not saving that there are changes in the	18	, 8	difficult to handle and close and they take a
19 trends that thee was one trend earlier and a	19	9	long time. So there could be a claim that's
20 different trend later on You're saving that	20	0	from seven years ten years ago even 15 years
21 it was just too volatile to be reliable?	. 20	1	ago that still isn't closed. So the estimates
22 MS FLLIOTT.		2	of the claims are subject to change over time
23 A No I'm not saying that it's too volatile to		2 ЗМ	MS_NEWBURY.
be reliable I'm not say thatwhat we're	24	2 IVI	O Right and that's the second type of
25 expressing is that over the 20-year period	25	 	volatility but the -
	, Page 82		Page 84
1 over the 10 year period 15 year period or	$\begin{bmatrix} agc & 02 \\ 5 & 1 \end{bmatrix}_1$	1 M	MS ELLIOTT.
2 vear period, there is a lot of volatility in		1 IVI 2	A And that applies to all lines of business
2 year period, there is a lot of volatility in 2 that average claim size		2	which is different than the volatility. If we
4 MS NEWBIDV		5 1	look at bodily injury in Ontario, much larger
5 O Okay and but that same volatility will be		4 5	database, it doesn't have that some volatility
6 there for more 2 shorter period of time the	in 6	5	from year to year. We don't look at one year
7 a longer period of time?		7	the average is 75 and the next is 35; they're
<sup>2</sup> a longer period of time:		/ 0	not the kind of numbers we have to deal with
• MS. ELLIOIT.		0	there but n both cases the estimates for
A. I unit what you iteif I in understanding y	/0u 9	9	2012 at December 2012, when we look at that
10 contectly, the more recent estimates, the	11	1	deta it's tough to estimate in Ontario in
12 MS NEWDUDY.	11	1 ว	Alberta in Newfoundland New claims are
12 MS. NEWBORT.	12	2	subject to change because the claim is opened
15 Q. Teall.	13	5 1	the claims, adjuster, you know, they haven't
14 MS. ELLIOTT.	14	4 5	closed it. So that issue applies no matter
A. So if the claim is from 2002, those estimates		5	what line of business we're looking at
they're subject to these claims are open	Jw, 10	0 7 M	what fine of business we re fooking at.
they have to be settled and closed. That's	10	/ IVI 0	NS. NEWDURT.
10 different than the volatility aspect that	10	0	I'm just trying to find out, what is it about
19 Uniferent than the volatility aspect that	15	9	the veletility not the difficulty in
20 we le getting at.	20	1	astimating the claims costs but the
21 WIS. NEW DUKI. 22   0 But are you saying that one type of velociti:	$\int_{-\infty}^{21}$	1 2	volatility over time and it sounds like it's
22 Q. But are you saying that one type of volatili 23 is in the first 15 of that 20 years, and that	Ly 22	∠ 3	from the small sample size here in this
23 is in the first 15 of that 20 years, and that		5 4	nom the sman sample size field in this
$2^{2+}$ a different type of volatility occurs in the last five of the 20 years?		+ 5	that would suggest that you shouldn't look at
25 1ast five of the 20 years:	23	5	mai would suggest that you shouldn't took at

Page 85Page 871a full 20 years? Would that not actually help1 MS.NEWBURY:2you look at a larger amount of data?34MS.ELLIOTT:44MS.ELLIOTT:47know, we had -14. +9559. +4426. +19.69MS.NEWBURY:6100. But i's not eliminating the volatility611rproblem to ignore the first five or ten years712of that 20-year period.813MS.ELLIOTT:814A. I's certainly not eliminating the volatility1415problem. You can't eliminate the volatility1416e.group data (liminating the volatility1417MS.ELLIOTT:1418A. It's certainly not eliminating the volatility1419MS.ELLIOTT:1014A. It's certainly not eliminating the volatility1415problem.1016Q. Right.17MS.NEWBURY:1718G. Right.19MS.ELLIOTT:2Q. Okay, and having less of it doesn't make it2Q. Okay, and having less of it doesn't make it2Q. Okay, and having less of it doesn't make it2Q. Okay, and having less of it doesn't make it2A. Sure doesn't. No, sure doesn't.3MS.NEWBURY:2Q. Okay, and having less of it doesn't make it2Q. Okay, and having less of it doesn't make it3MS.NEWBURY: <th>No</th> <th>ovember 17, 2014 Mul</th> <th>ti-P</th> <th>age</th> <th><sup>1</sup> Verbatim Court Reporters</th>	No	ovember 17, 2014 Mul	ti-P	age	<sup>1</sup> Verbatim Court Reporters
1       a full 20 years? Would that not actually help         2       you in dealing with the volatility issue. if         3       you look at a larger amount of data?         4       MS.ELLIOTT:         5       A. No. No, because then-I mean, we had an         6       example earlier, I can find it again. You         7       MS.ELLIOTT:         8       A. We provide a report that then is provided to         9       MS.NEWNURY:         10       Q. But it's not eliminating the volatility         11       make changes. I have to acknowledge there         12       of that 20-year period.         13       MS.ELLIOTT:         14       A. It's certainly not eliminate the volatility         15       problem.         16       provided, qum-hm.         17       MS.NEWBURY:         18       Q. Right.         19       MS.NELLIOTT:         14       A. You know, if you have data that's up and down         11       MS.NEWBURY:         12       ocesn't make it any better.         13       benchmark rate filings for this province in         14       MS.NEWBURY:         15       A. You know, if you have data that's up and bown         16 </th <th></th> <th>Page 8</th> <th>5</th> <th></th> <th>Page 87</th>		Page 8	5		Page 87
2       you in dealing with the volatility issue, if you look at a larger amount of data?       2       Q. Okay. We've been referring to them as you look at a larger amount of data?         3       MS. REJATT:       Benchmark reports, but it's your report to the example earlier, I can find it again. You know, we had -14, +95, -59, +44, -26, +19.       Benchmark reports, but it's your report to the deterned rates are, is that correct?         7       MS. NEWBURY:       A. We provide a report that then is provided to insurers for their comment, if they'd like to insurers for their comment, and Tm sure there's copies of all those reports that could be provided, um-hm.         14       A. It's certainly not eliminating the volatility if problem. You can't eliminate the volatility if problem. You can't eliminate the volatility if wo know, if you have data that's up and down ilike a yo-yo, like +95, -14, having more of it any better either?       NS. NEWBURY:         20       A. You know, if you have data that's up and down ilike a yo-yo, like +95, -14, having more of it any better either?       NS. NEWBURY:         21       Q. Okay, and having less of it doesn't any better either?       Page 86         1       MS. ELLIOTT:       A. Sure doesn't. No, sure doesn't. any better either?         2       A. Sure doesn't. No, sure doesn't. any better either?       Page 86         1       MS. ELLIOTT:       A. Sory, are you asking about benchmark rates?         2       A. Sure doesn't. No, sure doesn't. 3       MS. NEWBURY:         4	1	a full 20 years? Would that not actually help	1	MS. N	JEWBURY:
3         you look at a larger amount of data?           4         MS ELLIOTT:           4         Board wice a year, the end of June, the end           5         A. No. No, because thenI mean, we had an           6         example earlier, I can find it again. You           7         know, we had -14, +95, -59, +44, -26, +19.           8         A. We provide a report that then is provided to           9         MS.NEWBURY:           10         0. But it's not eliminating the volatility           11         a A. tr's certainly not eliminating the volatility           13         MS.ELLIOTT:           14         A. It's certainly not eliminating the volatility           15         problem.           14         A. It's certainly not eliminating the volatility           15         problem.           16         purposes of setting the benchmark rates, is           17         MS.NEWBURY:           18         Q. Right.           19         MS.NEWBURY:           24         O. Okay, and having less of it doesn't make it a           24         A. You know, if you have data that's up and down           21         ilke a yo-yo, like +95, -14, having more of it           2         A. Sou know, if you have data that's up and down	2	you in dealing with the volatility issue, if	2	0.	Okay. We've been referring to them as
4 MS. ELLIOTT:       4       Board twice a year, the end of June, the end         5 A. No. No, because then-I mean, we had an       6       of December cach year, and you propose what         6 the rend rates are, is that correct?       7       MS. NEWBURY:         8 MS. NEWBURY:       8       A. We provide a report that then is provided to         9 MS. NEWBURY:       8       A. We provide a report that then is provided to         10 Q. But it's not eliminating the volatility       11       have been very few comments, and I'm sure         11       A. I's certainly not eliminating the volatility       15       Q. And those reports are provided for the         13 MS. ELLIOTT:       14       MS. NEWBURY:       14       MS. NEWBURY:         18       Q. Right.       15       Q. And those reports are provided for the         17       MS. NEWBURY:       18       MS. ELLIOTT:       19         18       S. NEWBURY:       10       No, there's one confusion here; there's         19       M. S. ELLIOTT:       19       A. No, there's no benchmark rates, is         10       That correct?       10       No. here's nom confusion here; there's         11       MS. NEWBURY:       24       0. That you prepare. What is the purpose of         25       that:       11       11	3	you look at a larger amount of data?	3	×.	benchmark reports, but it's your report to the
<ul> <li>A. No. No, because thenI mean, we had an example earlier. I can find it again. You</li> <li>know, we had 1.4, +55, -59, +44, -26, +19.</li> <li>Having more of that doesn't help me.</li> <li>9 MS.NEWBURY:</li> <li>10 Q. But it's not eliminating the volatility</li> <li>11 problem to ignore the first five or ten years</li> <li>12 of that 20-year period.</li> <li>13 MS.ELLIOTT:</li> <li>14 A. It's certainly not eliminate the volatility</li> <li>15 problem. You can't eliminate the volatility</li> <li>16 problem.</li> <li>17 MS.NEWBURY:</li> <li>18 Q. Right.</li> <li>19 MS.ELLIOTT:</li> <li>20 A. You know, if you have data that's up and down?</li> <li>21 like a yo-yo, like +95, -14, having more of it 2 oresing the benchmark rates, is</li> <li>17 MS.NEWBURY:</li> <li>24 Q. Okay, and having less of it doesn't make it 2</li> <li>25 an Sure doesn't. No, sure doesn't.</li> <li>30 S.ELLIOTT:</li> <li>31 MS.ELLIOTT:</li> <li>31 MS.ELLIOTT:</li> <li>32 A. Sure doesn't. No, sure doesn't.</li> <li>33 MS.ELLIOTT:</li> <li>34 MS.ELLIOTT:</li> <li>34 MS.ELLIOTT:</li> <li>35 A. Are you referring to loss trend reports?</li> <li>34 MS.ELLIOTT:</li> <li>34 MS.ELLIOTT:</li> <li>34 MS.ELLIOTT:</li> <li>35 A. Are you referring to loss trend reports?</li> <li>34 MS.ELLIOTT:</li> <li>34 MS.ELLIOTT:</li> <li>35 A. Are you referring to loss trend reports?</li> <li>34 MS.ELLIOTT:</li> <li>34 MS.ELLIOTT:</li> <li>34 MS.ELLIOTT:</li> <li>35 A. Are you referring to loss trend reports?</li> <li>34 MS.ELLIOTT:</li> <li>34 MS.ELLIOTT:</li> <li>35 A. Are you referring to loss trend reports?</li> <li>35 MS.ELLIOTT:</li> <li>36 MS.EWBURY:</li> <li>31 MS.ELLIOTT:</li> <li>36 A. Are you referring to loss trend reports?</li> <li>36 MS.EWBURY:</li> <li>36 A. Are you referring to loss trend reports?</li> <li>36 MS.EWBURY:</li> <li>36 A. Are you referring t</li></ul>	4	MS_ELLIOTT	4		Board twice a year the end of June the end
<ul> <li>a for information of the second of</li></ul>	5	A No No because thenI mean we had an	5		of December each year and you propose what
0       Entity of the second sec	6	example earlier I can find it again You	6		the trend rates are is that correct?
8       Having more of that doesn't help me.         9       MS. NEWBURY:         10       Q. But it's not eliminating the volatility         11       problem to ignore the first five or ten years         12       of that 20-year period.         13       MS. ELLIOTT:         14       A. It's certainly not eliminating the volatility         15       problem. You can't eliminate the volatility         16       problem.         17       MS. NEWBURY:         18       Q. Right.         19       M. NewBURY:         20       Okay, and having less of it doesn't make it any better.         21       MS. NEWBURY:         24       Q. Okay, and having less of it doesn't make it any better.         23       MS. NEWBURY:         24       Q. Okay, and having less of it doesn't make it any better.         25       mobenchmark. Tate filings for this province in 6         6       the last ten years where you did not use the 7         7       MS. NEWBURY:         2       Q. Yeah. Sorry, not yourfor bodily injury 8         5       benchmark rate filings?         11       MS. NEWBURY:         20       Yeah. Sorry, not youryour reports for 15         3       MS. NEWB		know we had $-14 + 95 - 59 + 44 - 26 + 19$	7	MS F	A LIOTT.
9 MS. NEWBURY:       9 Insures of their comment, if they'd like to         10 Q. But it's not eliminating the volatility       10 make changes. I have to acknowledge there         11 MS. ELLIOTT:       11 have been very few comments, and I'm sure         12 of that 20-year period.       11 have been very few comments, and I'm sure         13 MS. ELLIOTT:       11 have been very few comments, and I'm sure         14 A. It's certainly not eliminating the volatility       16 there's copies of all those reports are provided for the         16 work NEWBURY:       11 they of like to         17 MS. NEWBURY:       13 be provided, um-hm.         18 Q. Right.       19 A. No there'sI'm afraid there's no benchmark rates, is         17 MS. NEWBURY:       18 MS. NELLOTT:         18 MS. NEWBURY:       18 MS. NEWBURY:         24 Q. Okay, and having less of it doesn't make it       22 we prepare. Now -         23 MS. NEWBURY:       23 MS. NEWBURY:         4 Q. Ms. EllioTT:       Page 86         1 MS. ELLIOTT:       Page 86         1 MS. ELLIOTT:       2 A. Sure doesn't.         3 MS. NEWBURY:       3 MS. NEWBURY:         4 Q. Ms. ElliOTT:       Page 86         1 MS. ELLIOTT:       9 MS. NELLOTT:         2 A. Sure doesn't. No, sure doesn't.       3 MS. NEWBURY:         3 MS. NEWBURY:       3 MS. NEWBU		Having more of that doesn't help me	8	Δ	We provide a report that then is provided to
9       Minimum and the second of the second o	9	MS_NEWBURY	9	11.	insurers for their comment if they'd like to
10       g. Dot not community in control to get matter in the comment, and the comments, and the comment is the comment.         11       MS. ELLIOTT:       14       MS. NEWBURY:       15       14       15       14       16       16       17       16       16       17       16       17       18       18       18       18       18       18       18       18       18       18       18       18		O But it's not eliminating the volatility	10		make changes I have to acknowledge there
12       of that 20-year period.       11         13       MS. ELLIOTT:       14         14       A. It's certainly not eliminating the volatility       15         15       problem. You can't eliminate the volatility       16         16       problem. You can't eliminate the volatility       17         16       problem. You can't eliminate the volatility       18         16       problem. You can't eliminate the volatility       19         17       MS. NEWBURY:       14         18       Q. Right.       19         19       MS. LIJOTT:       19         20       A. You know, if you have data that's up and down       20         21       fike a yo-yo, like +95, -14, having more of it       21         22       doesn't make it any better.       23         23       MS. NEWBURY:       23         24       Q. Okay, and having less of it doesn't make it       22         25       may better either?       Page 86         7       that set lings for this province in         6       the last ten years where you did not use the         7       ten and five years as yourfor bodily injury         8       benchmark rate filings for this province in         6 <t< td=""><td></td><td>problem to ignore the first five or ten years</td><td>11</td><td></td><td>have been very few comments and I'm sure</td></t<>		problem to ignore the first five or ten years	11		have been very few comments and I'm sure
12       Or Min Bios Peterson         13       MS. ELLIOTT:         14       A. It's certainly not eliminating the volatility         15       problem.         16       problem.         17       MS. NEWBURY:         18       Q. Right.         19       MS. NEWBURY:         11       MS. NEWBURY:         12       doesn't make it any better.         21       like a yo-yo, like +95, -14, having more of it         23       MS. NEWBURY:         24       Q. Okay, and having less of it doesn't make it         25       any better either?         24       Q. Okay, and having less of it doesn't make it         25       any better either?         26       Page 86         1       MS. NEWBURY:         2       A. Sure doesn't. No, sure doesn't.         3       MS. NEWBURY:         2       A. Sure doesn't. No, sure doesn't.         3       MS. NEWBURY:         4       Q. Ms. Elliott, would you be able to provide any         5       benchmark rate filings for this province in         7       ten and five years as yourfor bodily injury         8       ten and five years as yourfor bodily injury	12	of that 20-year period	12		there's copies of all those reports that could
13       A. It's certainly not eliminating the volatility         14       A. It's certainly not eliminating the volatility         15       problem.         16       problem.         17       MS.NEWBURY:         18       Q. Right.         19       MS.ELLOTT:         19       MS.ELLOTT:         10       MS.ELLOTT:         11       Ms. NEWBURY:         12       doesn't make it any better.         13       MS.NEWBURY:         14       MS.NEWBURY:         15       A. You know, if you have data that's up and down         11       like a yo-yo, like +95, -14, having more of it         12       doesn't make it any better.         13       MS.NEWBURY:         14       Q. Okay, and having less of it doesn't make it         15       any better either?         14       MS. ELLIOTT:         15       A. Sure doesn't. No, sure doesn't.         3       MS.NEWBURY:         2       A. Sure doesn't. No, sure doesn't.         3       MS.NEWBURY:         2       A. Sure doesn't. No, sure doesn't.         3       MS.NEWBURY:         4       Q. Of you providing that to the Board?      <	12	MS ELLIOTT.	12		he provided um-hm
15       problem. You can't eliminate the volatility       16       b) 16000000000000000000000000000000000000	11	A It's certainly not eliminating the volatility	14	MS N	JEWBLIRV.
16       problem.       10       q. Number of problem is portade if whether of the line is the line of the line is the portade is whether of the line is the portade is whether of the lines for the portade is whether of the lines is of it doesn't make if and of the line is the portade is whether of the lines is of it doesn't make it and five years as yourfor bodily injury is only?       10       0. Find whether of the lines is the portade is whether of the lines is the portade is whether of the lines is portade is whether of the lines is the portemark is the portade is whether of the lines is the po	15	nroblem You can't eliminate the volatility	15	0	And those reports are provided for the
10       Page 86         1       MS. ELLIOTT:         1       MS. ELLIOTT:         1       MS. ELLIOTT:         1       MS. ELLIOTT:         2       A. You know, if you have data that's up and down         21       like a yo-yo, like +95, -14, having more of it         22       doesn't make it any better.         23       MS. NEWBURY:         24       Q. Okay, and having less of it doesn't make it         25       any better either?         26       Page 86         1       MS. ELLIOTT:         2       A. Sure doesn't. No, sure doesn't.         3       MS. NEWBURY:         4       Q. Ms. Elliott, would you be able to provide any         5       benchmark rate filings for this province in         6       the last ten years where you did not use the         7       ten and five years as yourfor bodily injury         8       only?         9       MS. ELLIOTT:         10       A. Tim sorrybenchmark rate filings?         11       MS. NEWBURY:         12       Q. Yeah. Sorry, not youryour reports for         13       MS. NEWBURY:         14       Q. Yeah.         5       A. Yee yo	16	problem	15	Q.	nurposes of setting the benchmark rates is
10       MS. NEWBURY:       18       MS. ELLIOTT:         19       MS. ELLIOTT:       19       A. No, there's'I'm afraid there's no benchmark         20       A. You know, if you have data that's up and down       18       MS. ELLIOTT:         21       like a yo-yo, like +95, -14, having more of it       20       rates. There's some confusion here; there's         21       doesn't make it any better.       22       we prepare. Now -       23         23       MS. NEWBURY:       23       MS. NEWBURY:       23       MS. NEWBURY:       23         24       Q. Okay, and having less of it doesn't make it       24       Q. That you prepare. What is the purpose of       25       that?         Page 86         1 MS. ELLIOTT:         2       A. Of the loss trend rates?         3 MS. NEWBURY:         2       A. Of the loss trend rates?         3       MS. NEWBURY:         3       MS. NEWBURY:       3       MS. NEWBURY:         4       Q. Of you providing that to the Board?       5       MS. ELLIOTT:         5       benchmark rate filings?       10       MS. NEWBURY:       10       Q. Trend rates.         10       A. I'm sorrybenchmark rate	17	MS NEWBURY:	17		that correct?
10       W. ELLOTT:       19       A. No, there'sI'm afraid there's no benchmark         20       A. You know, if you have data that's up and down       19       A. No, there'sI'm afraid there's no benchmark         21       like a yo-yo, like +95, -14, having more of it       20       rates. There's some confusion here; there's         23       MS. NEWBURY:       21       no benchmark. There's loss trend rates that         22       we prepare. Now -       23         23       MS. NEWBURY:       23         24       Q. Okay, and having less of it doesn't make it       24         25       any better either?       24         26       Page 86       Page 86         1       MS. ELLIOTT:       2       A. Of the loss trend rates?         26       MS. NEWBURY:       3       MS. NEWBURY:         3       MS. NEWBURY:       4       Q. Of you providing that to the Board?         5       MS. ELLIOTT:       6       A. Sorry, are you asking about benchmark rates?         7       that we used to prepare for the Board or loss       8         8       only?       9       MS. NEWBURY:         10       A. I'm sorrybenchmark rate filings?       11       MS. ELLIOTT:         10       Q. Trend rates.       <	18	O Right	18	MS F	
10       MS. ELLOTT:       1       No. Section of the last ten years where you did not use the rates filings?         1       MS. NEWBURY:       23       MS. NEWBURY:       24       Q. Chat you prepare. Now -         23       MS. NEWBURY:       23       MS. NEWBURY:       24       Q. That you prepare. What is the purpose of         25       any better either?       25       that?       Page 86       Page 88         1       MS. ELLIOTT:       1       MS. ELLIOTT:       2       A. Of the loss trend rates?         3       MS. NEWBURY:       4       Q. Of you providing that to the Board?       5       MS. ELLIOTT:       5       MS. ELLIOTT:       6       A. Sorry, are you asking about benchmark rates?       7       that we used to prepare for the Board or loss       8       trend rates?       9       MS. NEWBURY:       1       1       MS. NEWBURY:       1       1       MS. NEWBURY:       1       1       MS. NEWBURY:       1       1       MS. NEWBURY:       1 <td>10</td> <td>MS ELLIOTT.</td> <td>10</td> <td>Δ</td> <td>No there'sI'm afraid there's no benchmark</td>	10	MS ELLIOTT.	10	Δ	No there'sI'm afraid there's no benchmark
21       Ikk a yo-yo, like +95, -14, having more of it       21       no benchmark. There's loss trend rates that         22       we prepare. Now -       23       MS. NEWBURY:       23       MS. NEWBURY:         24       Q. Okay, and having less of it doesn't make it       24       Q. That you prepare. Now -         23       MS. NEWBURY:       23       MS. NEWBURY:         24       Q. Okay, and having less of it doesn't make it       24       Q. That you prepare. What is the purpose of         25       that?       24       Q. That you prepare.       What is the purpose of         25       that?       25       that?         Page 86         1       MS. ELLIOTT:       2       A. Of the loss trend rates?         3       MS. NEWBURY:       3       MS. NEWBURY:       4       Q. Of you providing that to the Board?         5       benchmark rate filings for this province in       6       A. Sorry, are you asking about benchmark rates         7       ten and five years as yourfor bodily injury       8       trend rates?       9         8       only?       9       MS. ELLIOTT:       9       MS. NEWBURY:       10       Q. Trend rates.         10       A. I'm sorrybenchmark rate filings?       11       MS. ELLIO	$\begin{vmatrix} 1 \\ 2 \\ 0 \end{vmatrix}$	A You know if you have data that's up and down	20	л.	rates. There's some confusion here: there's
11       11 <td< td=""><td><math> _{21}^{20}</math></td><td>A. Tou know, if you have data that s up and down like a yo-yo like <math>\pm 95</math> <math>\pm 14</math> having more of it</td><td>20</td><td></td><td>no benchmark. There's loss trend rates that</td></td<>	$ _{21}^{20}$	A. Tou know, if you have data that s up and down like a yo-yo like $\pm 95$ $\pm 14$ having more of it	20		no benchmark. There's loss trend rates that
22       Boys number of the provider in the providere providere providere provider in the propreserve in the providere	$\begin{bmatrix} 2 \\ 2 \\ 2 \end{bmatrix}$	doesn't make it any better	$\begin{bmatrix} 2 \\ 2 \\ 2 \end{bmatrix}$		we prepare Now -
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25       any better either?       25       that?         25       any better either?       25       that?         26       Page 86       Page 86         1       MS. ELLIOTT:       2       A. Sure doesn't. No, sure doesn't.       3         3       MS. NEWBURY:       3       MS. NEWBURY:       3       MS. NEWBURY:         4       Q. Ms. Elliott, would you be able to provide any       5       benchmark rate filings for this province in       6       A. Sorry, are you asking about benchmark rates         7       ten and five years as yourfor bodily injury       8       trend rates?       9       9         9       MS. ELLIOTT:       9       MS. NEWBURY:       10       Q. Trend rates.         11       MS. NEWBURY:       11       MS. NEWBURY:       10       Q. Trend rates.         11       MS. NEWBURY:       11       MS. ELLIOTT:       12       A. Loss trend rates?         13       benchmark reportsyour benchmark reports.       11       MS. NEWBURY:       13       MS. NEWBURY:         14       MS. ELLIOTT:       14       Q. Yeah.       15       MS. NEWBURY:         14       MS. NEWBURY:       14       Q. Yeah.       15       MS. ELLIOTT:         16<	$\begin{vmatrix} 2.3 \\ 2.4 \end{vmatrix}$	$\Omega$ Okay and having less of it doesn't make it	23	MI3. I	That you prepare What is the purpose of
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20 MG FL LOTT	19	you ve been doing that for a number of years.	19		If there's any comments, or consideration, we
20 MS. ELLIOTT: 20 If there is any confinents of consideration, we	20	MS. ELLIOTT:	20		in there's any comments of consideration, we
21 A. Loss uchu reports, not - 21 review that and then the loss trend rates are 22 MS. NEWBURY.	$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	A. LOSS HEILU TEPOILS, HOL -			provided to the insurers for their use
22 MS. NEWDUKT: 23 O Loss trend reports 23 MS. NEWDURY: 24 Provided to the insurers for their use. 25 MS. NEWDURY:	$\begin{vmatrix} 22 \\ 22 \end{vmatrix}$	N.S. NEWDURT:	22	MCN	
25  WS. NEWBUKI:	23	Q. LOSS HERE REPORTS.	23	MD. N	Okay and what I'm acking that you do is to
25 A. Yeah. 25 identify in those reports any reports that	$\begin{vmatrix} 24 \\ 25 \end{vmatrix}$	A. Yeah.	24	Q.	identify in those reports any reports that

November 17, 2014 Mult	i-Page <sup>™</sup>	Verbatim Court Reporters
Page 89		Page 91
1 relied upon other than ten years and five	1 0.	Okay. I'm trying to understand how your
2 vears for bodily injury. (REOUEST)	2	comment here fits into the bigger picture of
3 MS. ELLIOTT:	3	the trend analysis. So you're talking about a
4 A Okay.	4	five-year period being more responsive to
5 MS NEWBURY	5	changing natterns
6 0 Thank you Now I'm going to refer to your	6 MS F	
7 report at Page A and that's the March 16th		Well we're trying to measure loss trend
report at 1 age 4, and that 3 the March 10th	0 A.	rates, we're propering a report every six
	8	nates, we re preparing a report every six
9 MS. GLINN:	9	months with new data. So what we let uying to
10 Q. MS. Newbury, while you re looking for that,	10	measure and present in our reports every six
11 can I just confirm for that undertaking that	11	months is a measure of that changing pattern.
12 Ms. Elliott just provided, would you be	12	So the loss trend rate is looking at the costs
13 looking for those for commercial and private	13	of the data that's available, and how are
14 passenger or just for -	14	those costs changing, what is that changing
15 MS. NEWBURY:	15	pattern? Maybe today, the loss trend rate we
16 Q. For both, yes.	16	might calculate for a coverage is $+2$ percent
17 MS. GLYNN:	17	and maybe five years ago when we did it, the
18 Q. For both? Thank you, and for the last ten	18	changing pattern, the data, indicated a $+3$
19 years?	19	percent. So there's changing patterns.
20 MS. NEWBURY:	20	That's why we look at the new information
21 Q. Yes, that's correct.	21	every six months to see, as best we can, what
22 STAMP, Q.C.:	22	is that changing pattern. So with the new
23 Q. So the twice-yearly report.	23	information that's provided, we try to assess
24 MS. GLYNN:	24	that.
25 Q. Yean. For commercial and private passenger.	25 MS. N	EWBURY:
25 Q. Yean. For commercial and private passenger.	25 MS. N	EWBURY: Page 92
Page 90	25 MS. N	EWBURY: Page 92 Okay So it is a change in trend?
25 Q. Yean. For commercial and private passenger. Page 90 1 Thank you.	25 MS. N 1 Q. 2 MS E	EWBURY: Page 92 Okay. So it is a change in trend?
<ul> <li>25 Q. Yean. For commercial and private passenger.</li> <li>Page 90</li> <li>1 Thank you.</li> <li>2 MS. NEWBURY:</li> <li>3 Q. You've poted in your report-rit's actually the</li> </ul>	25 MS. N 1 Q. 2 MS. E	EWBURY: Page 92 Okay. So it is a change in trend? LLIOTT: Well we're trying to measure what that change
<ul> <li>25 Q. Yean. For commercial and private passenger.</li> <li>Page 90</li> <li>1 Thank you.</li> <li>2 MS. NEWBURY:</li> <li>3 Q. You've noted in your reportit's actually the</li> <li>4 report CAOWOOL That's Page 4 of that report</li> </ul>	25 MS. N 1 Q. 2 MS. E 3 A.	EWBURY: Page 92 Okay. So it is a change in trend? LLIOTT: Well, we're trying to measure what that change
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1	ves. And how often? It depends on the	1		review.
2	environment. There are a lot of external	2	MS. N	EWBURY:
3	factors that can affect a change in direction	3	0.	But when you do these reviews every six
4	of a pattern.	4	Ļ	months, and if you come up with a different
5 MS.	NEWBURY:	5	i	trend rate for a particular type of coverage,
6 (	). Um-hm, and is it that every six months when	6	i.	is that because there is now a change in the
7	you do your new report, what you're observing	7	,	pattern or a change in the trend as of that
8	actually is a change in a pattern or are you	8	5	new six-month period of time?
9	just better, you know, fine tuning a pattern	9	MS. E	ELLIOTT:
10	that is there because you now have more data,	10	) A.	Well, the pattern is what we're trying to
11	you can better see a pattern that was already	11		measure, what are the changes, and that lost
12	in existence at the time, but maybe you didn't	12		cost trend rate is the terminology used for
13	fully understand it because of more limited	13		that changing pattern that we're trying to
14	data.	14		measure. We have new data. The Board asks us
15 MS.	ELLIOTT:	15		to look at that data every six months and do
16 A	. I'm not sure what you're asking me there	16	5	our analysis. The data, sometimes you could
17	specifically, but I'll try to answer as best I	17	,	get the same number, you could get a higher
18	can. We get new information that's available	18	5	number or lower number because you're looking
19	every six months. We review that information	19	)	at new data that's available, new estimates of
20	to try to assess what the lost cost trend rate	20	)	what losses are compared to private estimates,
21	is. The lost cost trend rate is a measure of	21		so.
22	what we think that changing pattern is, on	22	MS. N	IEWBURY:
23	average, from the historical data that we're	23	Q.	Okay, but are you able to say that, look, this
24	reviewing. New information gives us new	24		is a new trend, six months later, or I have
25	insight. GISA provides this data every six	25		better estimated or I can fine-tune a trend
	Page 94	1		Page 96
1	months, so that you can look at it and	.   1		that I was previously working on six months
2	determine your lost trend rates. It's	2		before? Because it sounds like to me, when
3	available for us to us, all actuaries to look	3		vou're talking about changing trends and
4	at and review, and that's what we do. We're	4	Ļ	responding to that, that you're having trend
5	provided with the data and we do our best to	5	i	rates that change frequently over a period of
6	analyze it every six months.	6	i i	five years or ten years, and I'm trying to
7 MS.	NEWBURY:	7	,	understand if that's what you're saving or
8 0	. Well, perhaps I could ask the question this	8	5	whether it's a fine-tuning of a trend rate.
9	way, you do your reports every six months and	9	MS. E	ELLIOTT:
10	I take it that you will frequently have a	10	A.	No. We truly are trying to present a balanced
11	change in your trend rate for a particular	11		approach to being responsive to the new data
12	type of coverage from one six-month period to	12	2	that's available, looking at it, and looking
13	the next?	13		at what our prior selection was so that we
14 MS.	ELLIOTT:	14		have a stable loss trend rate that we present
15 A	. Well, as I stated earlier, we try as best to	15		in our report that ensurescan review and
16	be both responsive and stable, you know,	16	<b>j</b>	comment upon. The new datas availableI
17	strike a balance with that, which is difficult	17	,	don't have a pre-conceived idea that when I
18	with this commercial data, and one of the	18		get the new data, it's going to change
19	things that we do is draw in our prior	19	)	everything dramatically. It's just the new
20	selection of the lost cost trend rate into our	20	)	data, I'm going to look at it and assess it
21	averaging approach, and it's using our prior	21		and prepare a report and provide it for
22	estimate and our new estimate and averaging	22	2	comment.
23	them for this selection, and we do that moving	23	MS. N	IEWBURY:
24	forward and that brings a little more	24	Q.	Okay, and because you identify a different
25	stability so that we're not up and down each	25	i	trend rate in December of 2011, for example,

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1 compared to June of 2011, it doesn't m	lean that 1	1	and I don't know what that mix is, but to me,
2 the trend has changed in that period of	time? 2	2	the changes are so significant that it makes
3 That you were going in one direction	, now 3	3	intuitive sense. You only have a hundred-and-
4 you're going in a completely diffe	rent 4	4	twenty-odd claims, some years you're going to
5 direction?	5	5	have some big claims, and it's affecting the
6 MS. ELLIOTT:	6	5	average claim size. So the noise in this case
7 A. No, and I wouldn't say that we're goin	ng in a 🛛 🗍 7	7	here is the fact that you have a mix of big
8 completely different direction. As 1	l've 8	8	claims and small claims changing, and we're
9 stated we try to take a very stable appr	oach 9	9	not trying to measure the change in the mix of
10 by looking at our prior selection a	.nd 10	)	claims, whether there was a big death accident
11 incorporating that in. That's one of	the 11	1	or a paraplegic one year and not the next.
12 things that we think is important with	this 12	2	We're not trying to measure that. We're
13 limited commercial data that we're w	vorking 13	3	trying to measure what's the change in the
14 with.	14	4	cost to settle a claim. If you had a whiplash
15 MS. NEWBURY:	15	5	this year and a whiplash next year, how much
16 O. Are you familiar with the terms "nois	e" and $16$	5	more does it cost you today versus five years
17 "signal" as used in statistics?	17	7	from now, that's what we're trying to measure.
18 MS. ELLIOTT:	18	8	So this data, because there's a changing mix,
19 A. Yes.	19	9	is what we call noise in the data.
20 MS. NEWBURY:	20	) MS. I	NEWBURY:
21 O. And how would you describe those ter	ms? 21	1 0.	And what about signal?
22 MS. ELLIOTT:	22	2 MS. I	ELLIOTT:
23 A. Well. I think we can bring up an exam	aple of 23	3 A.	The signal in the data?
noise, we referred to it earlier today, ar	nd it 24	4 MS. 1	NEWBURY:
25 was the exhibit with the yellow highli	ights. 25	5 0.	Yeah.
	Page 98		Раде 100
1 We had a red arrow on it	1 4 2 0 0 1	1 MS I	FLLIOTT <sup>,</sup>
2 MS GLYNN <sup>.</sup>	2	ο	We don't measure it directly here, but there's
3 O Can you identify that document please	se for	3	an indication that the data the fits will be
4 the record?		1	poor with this data. We're not getting a good
5 MS FLI IOTT	5	5	fit with this data
6 A. It's from the FA Filing. Part 2, 121. So	when e	5 MS.1	NEWBURY:
7 we look at the average claim size we're	e trving	7 0.	And if you're doing a five-year analysis, how
8 to measure how does thewhat is the c	hange in 8	, <u> </u>	would you determine that what you're measuring
9 the average cost of a claim from period	od to	9	is actually signal and not noise in the data?
10 period by looking at the severity data	and if	) )	You've indicated that you tend especially
11 all the claims were fender benders	and 11	1	with these smaller sample sizes you tend to
12 everyone was very similar it would be	pretty 12	2	get different mixes and that's not unusual
13 easy Those costs would be similar	They 13	3	you expect that
$\begin{array}{c} 13 \\ 14 \\ 14 \\ 14 \\ 14 \\ 14 \\ 16 \\ 16 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$	$\mathbf{v}$ 'd be 14	4 MS I	FLLIOTT.
15 close it'd be easy to measure what	that 15	5 A	I]m-hm
16 change in cost is over time. With this	data 16	5 MS I	NEWBLIRY.
here we see a lot of ups and downs: w	ve went	7 0	You're going to get maybe one year a lot of
through that this morning So this cou	ild be	, Q. 2	minor claims the next year maybe a lot of
19 referred to as a little bit of noise in the		, 	major claims, another year smaller number of
20 data We're not measuring the same th	$\frac{19}{100}$ when $\frac{19}{100}$	, l	claims but quite significant So you expect
20 uata. We re not measuring the same the	period 21	1	that and how would you deal with that in
22 We're not measuring just what is the	actual	י ז	looking at a five-year analysis to make sure
22 increase in the costs. In that data is	a $22$	-	that what you're looking at is not the noise
24 change of the mix of small claims on	d bia	ر 1	instead of the actual signal
25 claims that are going on from year to	vear 24	י 5 ארכי	Histeau of the actual signal.
125 Claims that are going on nom year to	your, [25	J 1010.1	

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1	A Right, I think in all this data, whether	1		refer you back to that sentenceand perhaps
	2 we're looking at 5 years, 10 years, 15 years			I've misunderstood what you're explaining
	or 20 years of data there is a lot of noise	3		there "While the five-year period is
	in this data the fits are poor FA stated in			generally more responsive to changing
	its review that it struggled with its fits	5		natterns due to the small number of claims
	6 over the 20-year period it's P-Tests and T-	6		and continuing volatility we do not fid the
	7 Tests were poor they did not meet their			five-year results sufficiently stable and
	standards EA last year in its filing			therefore give consideration to the ten-year
	rejected the severity trend rate it said it			period "
	couldn't figure it out So it's very	10	MS E	
	difficult with this data to differentiate what	10	MIS. L	Um-hm
	is the noise, what are we trying to measure	11	MC N	
	2 is the holse, what are we trying to measure, are we really measuring the intent here is	12		So what changing patterns if any have you
	that cost the change in cost for the severity	13	Q.	identified in this particular analysis?
	from period to period there's a lot of poise	14	MCE	L LOTT.
1.	here	15		Well in terms of changing patterns I guess
10	MC NEWDUDY.	10	А.	I'm going to via you an axample of what that
	7  MS. NEWBUR1.	1/		could be in a five year period. Say in
	in the five year period of time did you	10		Ontario and Lanologize for going back to
	approximation of the two five year	19		Ontario but it's got a big database and you
	porieds that you looked at for this	20		know but in Onterio there's been a lot of
	periods that you looked at for this			issues with froud and so we can look at say
	paint or points in time if indeed there are	22		some coverage, thing like, again, collision
	more then one, when the change in pattern	23		it's a simpler coverage to estimate and if
24	f more than one, when the change in pattern	24		there is more fraud_they have issues with the
-		100		
	Pag	e 102		Page 104
	MS. ELLIOTT:	1		tow trucks, with the repair trucks, so if
	2 A. Sorry. I don't understand your question.	2		something is happening in the last five years
	3 MS. NEWBURY:	3		and we see the claims costs are increasing,
	4 Q. So you ve indicated that the live-year period	4		there's a changing pattern because there's an
	responds to a change in pattern, and have you			awareness and there's more fraud. The tow
		6		truck drivers are, you know, just on the
	/ MS. ELLIOTT:			highway waiting for you. So we try to look at
8	A. No. I'm sorry, I haven't indicated that the	8		that, is there something going on in that more
	<sup>9</sup> five-year period responded to a change in	9		recent data that we need to be responsive to?
	) pattern. That -	10		That would be a typical thing that we want to
	I MS. NEWBURY:	11		make sure we're picking up in the data. In
	2 Q. Well, to changing patterns.	12		this case here, it's very difficult to pick up
	MS. ELLIOII:	13		a change in what's going on in the more recent
	A. No, no. No, I said that we ve measured the	14		it. We coloulate it and measure it to con
	manufactoria inverse a period, which is a	1) t'a		it. We calculate it and present it to see
	what we're trying to measure and we've		MON	
	what we re trying to measure, and we ve	1/	MS. N	EWBURY:
	done I have not stated that there's a	18	Q.	trying to understand the terminology "shanging
	changing pattern What I have stated is here			n ying to understand the terminology changing
	is the trend rate over five years and here is			know confirmed that was indeed that is
	the trend rate over ten veers			referring to changes in the trands but on I
	$\frac{1}{2} \qquad \text{ including two over ten yeals.}$			correct that you haven't actually identified
	1  0  Okay  Well let's to back to CAOWOOL Dataset	$A \begin{vmatrix} 23\\ 24 \end{vmatrix}$		any changes in the trends over either the
$\begin{vmatrix} 2^{2} \\ 2^{4} \end{vmatrix}$	again the second paragraph and I'm going to	24		five- or ten-year period of time?
1~~	again, are seeona paragraphi, and i in going to			of ten jem period of time.

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	Page	e 105			Page 107
1	MS. ELLIOTT:		1	MS. N	EWBURY:
2	A. Right. I think you're incorrect. What I said		2	Q.	Okay, and you didn't find any changes in the
3	was that we're measuring the trend rate over a	a	3		trend, in the five- or ten-year period, for
4	five-year period to see what the number tells		4		these coverages?
5	us, and we're measuring it over a ten-year		5	MS. E	LLIOTT:
6	period to see what the number tells us.		6	A.	That's correct. We're not presenting our
7	MS. NEWBURY:		7		report, that we believe that there's a change
8	g. Okay.		8		in direction at the five-year mark and that's
9	MS. ELLIOTT:		9		why we presented it. That's not what we're
10	A. The five years is a subset of the ten years,	1	10		saying. We're not identifying that there's a
11	and we want to see what the calculation is.	1	11		change in direction if we had 25 years of data
12	2. That's what we're doing. We're not saying of	<b>1,</b>	12		because we're looking at measuring what is the
13	and I believe there is a different direction	1	13		trend rate over ten years. That doesn't imply
14	in the trend rate at five years, that it was	1	14		that we think there's a change in direction in
15	going this way at ten years and at five years-	1	15		that ten-year period than the prior period.
16	-the last fivewe're not saying that. We're	1	16		We're just saving what happened in those last
17	just saying what is that trend rate, what is	1	17		ten years, let's measure the trend rate over
18	that pattern that we're trying to measure is	1	18		that period. And let's look at the latest
19	the trend rate, the changing costs, what is it	1	19		five years. What is the trend rate that we
20	over five years and what is it over ten years,	2	20		can measure there, what happened there? By
21	period.	2	21		doing so, we're not implying that we think
22	MS. NEWBURY:	2	22		there's a change in the direction of the trend
23	Q. Okay. So again, you were explaining why yo	ou 2	23		rate. We're simply trying to measure what it
24	were choosing the five years and the ten	2	24		is in that time period.
25	years, and I take it that your evidence is	2	25	MS. N	EWBURY:
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	that the five-year period is generally more		1	0.	Okay. Now you could have a change in the
2	responsive to changing patterns or changing		2		trend rate that's not necessarily a change in
3	trends, which is why you include that.		3		direction, is that not correct?
4	MS. ELLIOTT:		4	MS. E	LLIOTT:
5	A. For some coverages, yes. It will be, yes.		5	A.	Well, that's why we look at the trend rates,
6	5 MS. NEWBURY:		6		we do the reports every six years tosorry,
7	Q. Right, and but you haven't actually looked fo	r	7		every six months to find out what is the data
8	or identified, in either the five-year period		8		showing us this time, yeah.
9	of time or the broader ten-year period of		9	MS. N	EWBURY:
10	time, any actual changes in the trend?	1	10	Q.	Okay, but in this case here, if you haven't
11	MS. ELLIOTT:	1	11		identified any changes in the patterns or
12	A. When we look at the data, we do try to	1	12		changes in the trends over the ten-year period
13	identify if there's a change in the direction,	1	13		of time, they why would youwhat's the
14	is something going on with that trend rate	1	14		benefit, then, of looking at the five-year
15	that before the frequency, the number of	1	15		period?
16	claims was going up, the number of claims th	at 1	16	MS. E	LLIOTT:
17	you had for all the cars that you insured was	1	17	А.	Sorry. I don't understand your question, I -
18	the pattern going up, and then it decreased.	1	18	MS. N	EWBURY:
19	We're definitely looking to see if that	1	19	Q.	So you've indicated that changing patterns is
20	occurs, yes, we are.	2	20		basically changes in the trends?
21	MS. NEWBURY:	2	21	MS. E	LLIOTT:
22	Q. And you looked for that in this case?	2	22	А.	What we're trying to measure iswe have the
23	MS. ELLIOTT:	2	23		data, we have the loss cost, and we see that
24	A. We look for that in every review that we do.	2	24		experience, say, for the last ten years of
25	We look for that, yes.	2	25		data and we look at each of those data points

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1	and we're trying to measure what is that	1 I	l	know, taking advantage of the fact that you
2	pattern. On average, what is the percentage	ge 2	2	now have more data and perhaps you can fine-
3	change in that lost cost over the period of	f 3	3	tune your trend rate six months on, as opposed
4	time that we're looking at. That's the	4	ļ	to saying, oh, it's now changed, we were going
5	pattern that we're trying to measure.	5	5	up until June, now we're going down, or we
6	MS. NEWBURY:	6	5	were stable before and now we're increasing or
7	Q. Okay, and so your evidence is that in the n	nost 7	7	decreasing?
8	recent five years, you would expect that i	t 8	3 MS. E	LLIOTT:
9	would be more responsive to any change in	n the 9	9 A.	Yeah. Well, we try to take into consideration
10	pattern over that five-year period of time?	10	)	the fact thatwe look at what we selected in
11	MS. ELLIOTT:	11		our prior report, we look at what the ten-year
12	A. What we're trying to say with those word	s is 12	2	trends and the five-year trends are telling
13	that yes, any more recent data, if somethin	ng 13	3	us, what those numbers are, and then we try to
14	was happeningI gave the example of t	tow 14	ļ	takeyou know, we're striking a balance here
15	trucks, a problem in Ontario with fraud, th	at 15	5	between being responsive to the new
16	the more recent data, that something ne	w 16	<b>5</b>	measurements that we've calculated, and to
17	that's occurring, the more recent data wou	ıld 17	7	what we presented in the prior report, and we
18	help you see that if you look at that five-	18	3	take an average. I am the very first person
19	year period, yeah.	19	)	to say that this data is very difficult and
20	MS. NEWBURY:	20	)	challenging to work with, and that's, you
21	Q. Okay, but you haven't actually identified a	any 21		know, a step that we try and follow here so
22	such change of pattern here?	22	2	that we have something that we believe is
23	MS. ELLIOTT:	23	3	stable from report to report.
24	A. That was an example. No, that's right.	We 24	MS. N	EWBURY:
25	haven't identified -	25	5 Q.	What factors might be considered to cause
	F	Page 110		Page 112
1	MS. NEWBURY:	1	l	frequency or severity or lost costs to change
2	Q. Or any other change of pattern?	2	2	over time, other than the passage of time
3	MS. ELLIOTT:	3	3	itself? And you've mentioned some examples of
4	A. Well, when we present the loss trend rate	es, 4	ł	fraud, for example, in another province.
5	the values that are provided are the values	5, 5	5 MS. E	LLIOTT:
6	and if those values are different between te	en- 6	6 A.	Sure. Yeah, frequencyand one of the
7	year, five-year or whatever period, that's	8 7	7	interesting things is we're seeing in many
8	telling you something, yeah.	8	3	provinces across the land is thatand even in
9	MS. NEWBURY:	9	)	the US as well, we're seeing a decline in
10	Q. Okay. So there has been a change in tren	nd 10	)	frequency and a lot is attributed to thatto
11	andif there's been a change in your rate?	11		technology with cars, whether you're starting
12	MS. ELLIOTT:	12	2	with ABS brakes, now cars have little signals
13	A. Well, the numeric value changes, yes. W	ith 13	3	on the windowsI like those because I know
14	each review that we do, typically it change	es. 14	ļ	that they'll see me if I'm passing them. So
15	There's new data available, new estimates	. If 15	5	there's more changes in cars that are
16	it never changed, then I assume the Boa	rd 16	5	happening that are driving a reduction in the
17	would say, well, you've done it once and	the 17	7	frequency, soand I'd say that's more of a
18	data doesn't change, so don't look at it	18	3	phenomena in the last sort of ten years or so,
19	again. So new data comes in, the Board a	isks 19	)	that we're seeing that, yeah.
20	us to look at it, and so we do.	20	) MS. N	IEWBURY:
21	MS. NEWBURY:	21	Q.	Okay. So you're not surprised, then, that
$ ^{22}_{22}$	Q. And just one more question on that befor	ei  22		rrequency is negative?
23	leave that. Is it possible that theyou	23	MS.E	LLIOTT:
24	know, looking at it every six months an	ia 24	A.	Negative? No.
25	updating your trend rate is actually, you	25	MS. N	IEWBURY:

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1 Q. And in terms of factors that might c	ause there 1		recent data in their trend model because of
2 to be changes in frequency and sev	erity and 2		precipitation, and in that case, the
3 lost cost as well over time, how do	you take 3		precipitation was so low, it was unusually
4 these factors into consideration in	your 4		low, that they thoughtbecause Vancouver,
5 analysis?	5		they get a lot of rain, that that was causing
6 MS. ELLIOTT:	6		a distortion in their trend model, soand
7 A. Could you be more specific? I'm no	t sure what 7		this is thewe're reviewing this file. They
8 you're asking me.	8		had modified their data for that. So one of
9 MS. NEWBURY:	9		the things you do is you look at the data and
10 Q. So you've acknowledged and giver	examples of 10		you say, gee, it's changing, and then you say,
11 factors that might cause frequency,	severity 11		why is it changing? And in that case, the
12 or lost costs to change over time, a	and I'm 12		experience was to go and look at the
13 justother than simply the passage	of time, 13		precipitation and say, oh, there was a
so how do you take these factors int	o account 14		dramatic change in the participation and that-
15 in doing your analysis?	15		-there's a link with the frequency rate. So
16 MS. ELLIOTT:	16		it's looking at the data and then trying to
17 A. Well, hopefully my answer will ge	t at what 17		research to find out why did that occur. It's
18 you're asking me here. We look a	tin our 18		picking up the phone to Bob Byrne and saying
19 model, we can incorporate many pa	rameters to 19		can you tell me if, you know, such and such
20 try to measure these external force	s. So 20		did anything go on? They're the things that
21 we're able to include a parameter, o	r exclude, 21		we do, yeah.
depending on what the stats tell us,	whether 22 1	MS. N	EWBURY:
23 it's for the reforms that happened i	n this 23	Q.	Okay. So basically, you see something in the
24 province, we can incorporate the un	employment 24		data that raises a question, I wonder if
25 rate, we can incorporate the Consu	mer Price 25		something happened at this point in time, and
	Page 114		Page 116
1 Index, we can incorporate precipitat	ionthere 1		then you start to look and make inquiries and
2 are many things that we can incorp	orate into 2		see if there's any changes in weather or
3 our model to see is that telling us so	mething, 3		changes in legislation that could have perhaps
4 does that help us get a better fit?	So we 4		prompted that change?
5 look at that external information, w	nich is a 5 1	MS. El	LLIOTT:
6 measurement ofto help with the n	odel. You 6	A.	Right, and so often that will be the new
7 know, there is a key example in this	province, 7		experience, or the more recent experience
8 and it was during the timeframe who	en there as 8		comes through. We'll investigate and then
9 a hearing. We had a very severe wi	nter when I 9		you've got a note in your file. As you go
10 was here in Newfoundland and you	1 could see 10		forward over time, you kind of go, oh, yeah, I
11 that in the claims experience, the fr	equency 11		remember back then there was that bad snow
12 rate was really high in the early 200	0s. 12		storm and that explains that high point, yeah.
13 MS. NEWBURY:	13 1	MS. N	EWBURY:
14 Q. And do you only look for any impac	t of such an 14	Q.	Okay, and what happens if you know something
15 event if you're aware of it, or do yo	a look at 15		has occurred, like product reform, within the
16 the statistics, the numbers, the data	, and 16		timeframe of your analysis, would you look to
17 then try to see what might explain, y	ou know, 17		see whether there's any impact from that or is
a change in frequency or a change in	n severity? 18		it all -
19 How do you go about doing that?	19 1	MS. El	LLIOTT:
20 MS. ELLIOTT:	20	А.	Oh, absolutely. I think I just said that. We
21 A. Yeah. Well, that's an interesting po	int, and 21		have in our model the flexibility to include
I can speak, because it's public know	owledge. 22		or exclude that, depending upon whether it's
23 We're doing a review in BC and in t	nat filing- 23		significant or not, so we definitely do that.
24 -and BC is government-run auto, an	d in that 24 1	MS. N	EWBURY:
25 filing, there's an adjustment to the	most 25	Q.	Sure, and I'm aware that you do have a very

Page 117       Page 117         1       flexible model and you can look at EI and       0. Okay, but maybe Iso I heard at the beginning         2       Consumer Price Index and number of things, but       0. Okay, but maybe Iso I heard at the beginning         3       I'm wondering when do you ou cutually introduce       4       years, the next five years, the more recent         4       that?       5       five years.         5       MS. BELHOTT:       7       A. Yes,         9       Q. You do? Aday. So every analysis that you do,       0       MS. BELHOTT:         10       trend?       1       MS. BELHOTT:         12       A. Yeah. Our model, we click an X on, click an X       8       MS. NEWBURY:         13       off. It's one second, yeah. Absolutely.       1       MS. NEWBURY:         14       MS. NEWBURY:       15       Q. Okay. Including the 15-year trend, yes.         16       this particular case?       17       A. Lending 15 year.         18       A. Um-hm.       18       MS. NEWBURY:         19       Q. And that was for the ten-year period,       21       Trecall, I don't believe, what data points you         21       reviewed, and we looked at the reform       19       Q. Mes Mass IS you ouldid, in fact, look at that we
1       flexible model and you can look at EI and Consumer Price Index and number of things, but 3       1       Q. Okay, but maybe L-so I heard at the beginning of the evidence that you looked at five-year 3         2       Consumer Price Index and number of things, but 3       Segments, so you'd look at the first five 4       2         4       Ms. PLUTDT: 7       A. Yes.       3       Segments, so you'd look at the first five 4       2         7       A. Yes.       6       MS. PLUTDT: 7       A. Yes.       6       MS. PLUTDT: 7       A. Um-hm.         10       you look at that?       9       Q. You do?       Okay, So every analysis that you do, 7       Yes and that?       9       Q. You do?       Okay. So every analysis that you do, 7       MS. NEWBURY:       9       Q. Us ty ou would have looked at a full 15-year 7       N. Set you would have looked at a full 15-year 7       N. Set you would have looked at a full 15-year 7       N. Set you would have looked at a full 15-year 7       N. Set you would have looked at a full 15-year 7       N. Set you would have looked at that, 7       N. Set you would have at the price you would have looked at a full 15-year 7       N. Set you would have at the price you would have looked at that, 7       N. Set you would have you would have looked at that, 7       N. Set you would have looked at that we 7       N. Set you would have looked at that we 7       N. Set you would have looked at that we 7       N. Set you would have looked at the reform 7       N. Net you would h
3       1'm wondering when do you actually introduce       3       segments, so you'd look at the first five         4       that?       4       years, the next five years, the more recent         5       MS. ELHOTT:       7       A. Um-hm.         9       Q. You do? Okay. So every analysis that you do,       6       MS. ELHOTT:         1       MS. ELHOTT:       7       A. Um-hm.         10       you look at that?       10       Endot         11       MS. ELHOTT:       7       A. Um-hm.         12       A. Yeah. Our model, we click an X on, click an X       13       yeah.         14       MS.NEWBURY:       12       A. We look at numerous segmentations of the data,         15       Q. So you did, in fact, look at product reform in       16       this particular case?         17       MS. ELHOTT:       17       A. Including 15 year.         18       A. Um-hm.       19       Q. Okay. Including the 15-year trend, yes.         16       MS. NEWBURY:       19       Q. And 1 also indicated or questioned you this         20       Q. And that was for the ten-year period,       21       recall, I don't believe, what data points you         21       recide analysis that you had for that?       18       NS. ELHOTT:
6 MS. FLLIOTT:       7 A. Yes.         7 A. Yes.       7 A. Um-hm.         8 MS. NEWBURY:       9 Q. You do? Okay. So every analysis that you do,       9 Q. But you would have looked at a full 15-year         10 you look at that?       11 MS. ELLIOTT:       11 MS. ELLIOTT:         12 A. Yeah. Our model, we click an X on, click an X       12 A. We look at numerous segmentations of the data,         13 off. It's one second, yeah. Absolutely.       14 MS. NEWBURY:         14 MS. NEWBURY:       12 A. We look at numerous segmentations of the data,         15 Q. So you did, in fact, look at product reform in       15 Q. Okay. Including the 15-year trend, yes.         16 this particular case?       16 MS. ELLIOTT:         17 MS. FLLIOTT:       17 A. Including 15 year.         18 A. Um-hm.       18 MS. NEWBURY:         19 Q. And that was for the ten-year period,       21 recall, 1 don't believe, what data points you         21 reviewed, and we looked at the reform       22 might have excluded as outliers for a 15-year         23 A. Well, we have 15 years of data that we       23 A. Well, we have 15 years of data that we         24 reviewed, and we looked at the reform       25 A. Right.         25 A. No, It's done in Excel, as we work through       3 reports and documentation that you've         4 MS. ELLIOTT:       4 MS. ELLIOTT:         8 Q. Okay. So you would have discarded that after
7       A. Yes.       7       A. Um-hm.         8       MS.NEWBURY:       9       Q. You do? Okay. So every analysis that you do, you look at that?       9       Q. But you would have looked at a full 15-year         11       MS.ELLIOTT:       11       MS.ELLIOTT:       11       MS.ELLIOTT:         12       A. Yeah. Our model, we click an X on, click an X       12       A. We look at numerous segmentations of the data, 3       yeah.         14       MS.NEWBURY:       14       MS.NEWBURY:       14       MS.NEWBURY:         15       Q. So you did, in fact, look at product reform in 16       15       Q. Okay. Including the 15-year trend, yes.         16       MS.ELLIOTT:       17       A. Including 15 year.       18         18       A. Um-hm.       19       Q. And 1 also indicated or questioned you this         20       Q. And that was for the ten-year period, 21       18       MS.NEWBURY:       19       Q. And 1 also indicated or questioned you this         21       MS.ELLIOTT:       19       Q. And 1 also indicated or questioned you this       20       morning about the outliers, and you couldn't         21       presumably?       21       trend.       24       KELLIOTT:       24       MS.ELLIOTT:         22       MS.ELLIOTT:       25       A
8 MS. NEWBURY:       9       Q. You do? Okay. So every analysis that you do,       9       Q. But you would have looked at a full 15-year         9       Q. You do? Okay. So every analysis that you do,       10       you you would have looked at a full 15-year         11       MS. ELLIOTT:       11       MS. ELLIOTT:       12       A. We look at numerous segmentations of the data,         13       off. It's one second, yeah. Absolutely.       13       yeah.         14       MS. NEWBURY:       12       A. We look at numerous segmentations of the data,         16       this particular case?       15       Q. Okay. Including the 15-year trend, yes.         16       this particular case?       16       MS. NEWBURY:       15         19       Q. And that was for the ten-year period,       18       MS. NEWBURY:       19         20       Q. And that was for the ten-year period,       20       morning about the outliers, and you couldn't         21       presumably?       21       recall, I don't believe, what data points you         22       MS. ELLIOTT:       23       A. Well, we have 15 years of data that we       24       MS. ELLIOTT:         23       A. Well, we have 15 years of data that we       25       A. Right.       Page 118         1       MS. NEWBURY:       2
9       Q. You do? Okay. So every analysis that you do, you look at that?       9       Q. But you would have looked at a full 15-year tend?         10       you look at that?       10       trend?         11       MS. ELLIOTT:       12       A. Veah. Our model, we click an X on, click an X         13       off. It's one second, yeah. Absolutely.       14       MS. NEWBURY:         14       MS. NEWBURY:       14       MS. NEWBURY:         15       Q. So you did, in fact, look at product reform in       16       this particular case?         17       MS. ELLIOTT:       17       A. Including 15 year.         18       A. Um-hm.       18       MS. NEWBURY:         19       Q. And that was for the ten-year period,       17       A. Including 15 year.         10       reviewed, and we looked at the reform       18       MS. NEWBURY:         2       MS. ELLIOTT:       23       trend.         2       O kay, and did you keep the information, the       analysis that you had for that?       24         4       MS. NEWBURY:       2       Q. Okay, and did you keep the information, the       3       reports and documentation that you've         4       MS. ELLIOTT:       2       A. Right.       10         1       MS. NEWBURY:
10       you look at that?       10       trend?         11       MS. ELLIOTT:       11       MS. FLILIOTT:         12       A. Yeah. Our model, we click an X on, click an X       11       MS. ELLIOTT:         13       off. It's one second, yeah. Absolutely.       11       MS. ELLIOTT:         14       MS. NEWBURY:       14       MS. NEWBURY:         15       Q. So you did, in fact, look at product reform in       16       MS. ELLIOTT:         17       MS. ELLIOTT:       17       A. Including 15 year.         18       A. Um-hm.       19       Q. And that was for the ten-year period,       10       treal, I don't believe, what data points you         20       Q. And that was for the ten-year period,       11       MS. NEWBURY:       19       Q. And I also indicated or questioned you this         20       Q. And that was for the ten-year period,       11       morning about the outliers, and you couldn't         21       presumably?       22       might have excluded as outliers for a 15-year         23       A. Well, we have 15 years of data that we       24       trend.         2       Q. Okay, and did you keep the information, the       3       reports and documentation that you've         4       MS. NEWBURY:       1       MS. NEWBURY:
11 MS. ELLIOTT:       11 MS. ELLIOTT:         12 A. Yeah. Our model, we click an X on, click an X       13 off. It's one second, yeah. Absolutely.         14 MS. NEWBURY:       12 A. We look at numerous segmentations of the data,         13 off. It's one second, yeah. Absolutely.       14 MS. NEWBURY:         15 Q. So you did, in fact, look at product reform in       15 Q. Okay. Including the 15-year trend, yes.         16 this particular case?       16 MS. ELLIOTT:         19 MS. NEWBURY:       19 Q. And that was for the ten-year period,         20 Q. And that was for the ten-year period,       18 MS. NEWBURY:         21 presumably?       19 Q. And I also indicated or questioned you this         22 MS. ELLIOTT:       22 might have excluded as outliers for a 15-year         23 A. Well, we have 15 years of data that we       23 trend.         24 reviewed, and we looked at the reform       24 MS. ELLIOTT:         25 A. Right.       Page 118         1 MS. NEWBURY:       2         2 Q. Okay, and did you keep the information, the       3 reports and documentation that you've         3 A. No. It's done in Excel, as we work through       6 exclude two points, high and low.         6 it. I don't have it printed up.       7 MS. ELLIOTT:         7 MS. NEWBURY:       10 Q. Do you have a standard approach for excluding         11 MS. NEWBURY:       10 MS. NELLIOTT:<
12       A. Yeah. Our model, we click an X on, click an X       12       A. We look at numerous segmentations of the data,         13       off. It's one second, yeah. Absolutely.       13       yeah.         14       MS. NEWBURY:       14       MS. NEWBURY:       15       Q. So you did, in fact, look at product reform in         16       this particular case?       14       MS. NEWBURY:       14       MS. NEWBURY:         19       MS. NEWBURY:       14       MS. NEWBURY:       15       Q. Okay. Including the 15-year trend, yes.         16       this particular case?       17       A. Including 15 year.       18         19       MS. NEWBURY:       19       Q. And that was for the ten-year period,       20       morning about the outliers, and you couldn't         21       presumably?       20       morting about the outliers, and you couldn't       21       recal. I don't balieve, what data points you         23       A. Well, we have 15 years of data that we       24       reviewed, and we looked at the reform       25       A. Right.         24       reviewed, and did you keep the information, the       analysis that you had for that?       2       Q. It's my understanding from your evidence, and         3       analysis that you had for that?       4       S. ELLIOTT:       2       Q. It's
13       off. It's one second, yeah. Absolutely.       13       yeah.         14       MS. NEWBURY:       14       MS. NEWBURY:         15       Q. So you did, in fact, look at product reform in       14       MS. NEWBURY:         16       this particular case?       15       Q. Okay. Including the 15-year trend, yes.         17       MS. ELLIOTT:       17       A. Including 15 year.         18       A. Um-hm.       18       MS. NEWBURY:         19       Q. And that was for the ten-year period,       17       A. Including 15 year.         21       presumably?       21       recall, I don't believe, what data points you         22       MS. ELLIOTT:       22       might have excluded as outliers for a 15-year         23       A. Well, we have 15 years of data that we       24       MS. ELLIOTT:         24       reviewed, and we looked at the reform       25       A. Right.         7       MS. NEWBURY:       2       Q. It's my understanding from your evidence, and         3       analysis that you had for that?       4       produced, that for five years you exclude one         5       A. No. It's done in Excel, as we work through       1       MS. NEWBURY:         10       Q. Okay, So you would have discarded that after?       9
14 MS. NEWBURY:       14 MS. NEWBURY:         15 Q. So you did, in fact, look at product reform in       15 Q. Okay. Including the 15-year trend, yes.         16 this particular case?       16 MS. ELLIOTT:         17 MS. ELLIOTT:       17 A. Including 15 year.         18 A. Um-hm.       18 MS. NEWBURY:         19 Q. And that was for the ten-year period,       20 morning about the outliers, and you couldn't         21 presumably?       21 recall, I don't believe, what data points you         22 MS. ELLIOTT:       22 might have excluded as outliers for a 15-year         23 A. Well, we have 15 years of data that we       23 trend.         24 reviewed, and we looked at the reform       25 A. Right.         Page 118       Page 120         1 MS. NEWBURY:       2 Q. It's my understanding from your evidence, and         3 analysis that you had for that?       3 reports and documentation that you've         4 MS. ELLIOTT:       2 Q. It's my understanding from your evidence, and         5 A. No. It's done in Excel, as we work through       1 MS. NEWBURY:         6 it. I don't have it printed up.       7 MS. ELLIOTT:         7 MS. NEWBURY:       10 Q. Do you have a standard approach for excluding         11 MS. NEWBURY:       10 Q. Do you have a standard approach for excluding         11 data points when you use a 15-year trend?       10 Q. Do you have a standard a
15       Q. So you did, in fact, look at product reform in       15       Q. Okay. Including the 15-year trend, yes.         16       this particular case?       16 MS. ELLIOTT:         17       MS. ELLIOTT:       17       A. Including 15 year.         18       A. Um-hm.       18 MS. NEWBURY:       19       Q. And I also indicated or questioned you this         20       Q. And that was for the ten-year period,       20       morning about the outliers, and you couldn't         21       presumably?       21       recall, I don't believe, what data points you         22       MS. ELLIOTT:       22       might have excluded as outliers for a 15-year         23       A. Well, we have 15 years of data that we       24       reviewed, and we looked at the reform         24       reviewed, and we looked at the reform       25       A. Right.         29       Okay, and did you keep the information, the       3       reports and documentation that you've         4       MS. ELLIOTT:       1       MS. NEWBURY:       1         2       Q. Okay. So you would have discarded that after?       9       N. NEWBURY:       1         3       A. No. It's done in Excel, as we work through       5       point, high and low, and for tne years, you       6         4       MS. ELLIOTT:
16       this particular case?       16       MS. ELLIOTT:         17       MS. ELLIOTT:       17       A. Including 15 year.         18       A. Um-hm.       18       MS. NEWBURY:         19       MS. NEWBURY:       19       Q. And I also indicated or questioned you this         20       Q. And that was for the ten-year period,       20       morning about the outliers, and you couldn't         21       presumably?       21       recall, I don't believe, what data points you         22       MS. ELLIOTT:       22       might have excluded as outliers for a 15-year         23       A. Well, we have 15 years of data that we       23       trend.         24       reviewed, and we looked at the reform       24       MS. ELLIOTT:         25       A. Right.       Page 120         1       MS. NEWBURY:       2       Q. It's my understanding from your evidence, and         3       analysis that you had for that?       4       MS. ELLIOTT:         4       MS. ELLIOTT:       2       Q. It's my understanding from your evidence, and         5       A. No. It's done in Excel, as we work through       5       point, high and low, and for ten years, you         6       it. I don't have it printed up.       7       MS. ELLIOTT:       8
17 MS. ELLIOTT:       17 A. Including 15 year.         18 A. Um-hm.       18 MS. NEWBURY:         19 MS. NEWBURY:       19 Q. And I also indicated or questioned you this         20 Q. And that was for the ten-year period,       20 morning about the outliers, and you couldn't         21 presumably?       21 recall, I don't believe, what data points you         22 MS. ELLIOTT:       22 might have excluded as outliers for a 15-year         23 A. Well, we have 15 years of data that we       23 trend.         24 reviewed, and we looked at the reform       24 MS. ELLIOTT:         25 parameter in our review, yeah.       25 A. Right.         2 Q. Okay, and did you keep the information, the       3 reports and documentation that you've         4 MS. ELLIOTT:       2 Q. It's my understanding from your evidence, and         3 analysis that you had for that?       4 produced, that for five years you exclude one         5 A. No. It's done in Excel, as we work through       5 point, high and low, and for ten years, you         6 it. I don't have it printed up.       7 MS. ELLIOTT:         7 MS. NEWBURY:       10 Q. Do you have a standard approach for excluding         11 MS. NEWBURY:       10 Q. Do you have a standard approach for excluding         11 MS. NEWBURY:       11 data points when you use a 15-year trend?         12 Q. And again, that was a 15-year -       13 A. No, not presentingwe do look
18       A. Um-hm.       18       MS. NEWBURY:         19       MS. NEWBURY:       19       Q. And I also indicated or questioned you this         20       Q. And that was for the ten-year period,       20       morning about the outliers, and you couldn't         21       presumably?       21       recall, I don't believe, what data points you         22       MS. ELLIOTT:       22       might have excluded as outliers for a 15-year         23       A. Well, we have 15 years of data that we       23       trend.         24       reviewed, and we looked at the reform       24       MS. ELLIOTT:         25       parameter in our review, yeah.       25       A. Right.         Page 118         1       MS. NEWBURY:       1       MS. NEWBURY:         2       Q. Okay, and did you keep the information, the       3       reports and documentation that you've         3       analysis that you had for that?       4       produced, that for five years you exclude one         5       A. No. It's done in Excel, as we work through       5       point, high and low, and for the years, you         6       it. I don't have it printed up.       7       MS. ELLIOTT:       8         9       MS. NEWBURY:       9       MS. NEUBOTT:       9
19 MS. NEWBURY:       19 Q. And I also indicated or questioned you this         20 Q. And that was for the ten-year period,       20 morning about the outliers, and you couldn't         21 presumably?       21 recall, I don't believe, what data points you         22 MS. ELLIOTT:       22 might have excluded as outliers for a 15-year         23 A. Well, we have 15 years of data that we       23 trend.         24 reviewed, and we looked at the reform       24 trend.         25 parameter in our review, yeah.       25 A. Right.         26 Q. Okay, and did you keep the information, the       2 g. It's my understanding from your evidence, and         3 analysis that you had for that?       1 MS. NEWBURY:         2 Q. Okay. and for the vertice, as we work through       1 morning about he outmentation that you've         4 MS. ELLIOTT:       4 produced, that for five years you eclude one         5 A. No. It's done in Excel, as we work through       5 point, high and low, and for ten years, you         6 it. I don't have it printed up.       7 MS. ELLIOTT:         7 MS. NEWBURY:       9 MS. NEWBURY:         9 MS. ELLIOTT:       9 MS. NEWBURY:         10 Q. Do you have a standard approach for excluding         11 MS. NEWBURY:       10 Q. Do you have a standard approach for excluding         11 MS. NEWBURY:       12 MS. ELLIOTT:         13 A. No, not presentingwe do look at that.
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<ul> <li>i. I don't have it printed up.</li> <li>i. I don't have a standard approach for excluding</li> <li>i. MS. NEWBURY:</li> <li>i. A. We used 15 years of data, yeah, so -</li> <li>i. MS. NEWBURY:</li> <li>i. A. We used 15 years of data, yeah, so -</li> <li>i. MS. NEWBURY:</li> <li>i. A. Would you look for a 15-</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that. So my</li> <li>i. A. No, not presentingwe do look at that</li></ul>
<ul> <li>7 MS. NEWBURY:</li> <li>8 Q. Okay. So you would have discarded that after?</li> <li>9 MS. ELLIOTT:</li> <li>10 A. Um-hm.</li> <li>11 MS. NEWBURY:</li> <li>12 Q. And again, that was a 15-year -</li> <li>13 MS. ELLIOTT:</li> <li>14 A. We used 15 years of data, yeah, so -</li> <li>15 MS. NEWBURY:</li> <li>16 Q. 15 years of data? Would you look for a 15-</li> <li>17 year trend?</li> <li>7 MS. ELLIOTT:</li> <li>7 MS. ELLIOTT:</li> <li>8 A. Um-hm.</li> <li>9 MS. NEWBURY:</li> <li>10 Q. Do you have a standard approach for excluding</li> <li>11 data points when you use a 15-year trend?</li> <li>12 MS. ELLIOTT:</li> <li>13 A. No, not presentingwe do look at that. So my</li> <li>14 answer would be no, we don't have a standard</li> <li>15 ms newBURY:</li> <li>16 Q. 15 years of data? Would you look for a 15-</li> <li>17 year trend?</li> <li>17 one of the first things we do is look at the</li> </ul>
<ul> <li>8 Q. Okay. So you would have discarded that after?</li> <li>9 MS. ELLIOTT:</li> <li>10 A. Um-hm.</li> <li>11 MS. NEWBURY:</li> <li>12 Q. And again, that was a 15-year -</li> <li>13 MS. ELLIOTT:</li> <li>14 A. We used 15 years of data, yeah, so -</li> <li>15 MS. NEWBURY:</li> <li>16 Q. 15 years of data? Would you look for a 15-</li> <li>17 year trend?</li> <li>10 N. ELLIOTT:</li> <li>11 MS. ELLIOTT:</li> <li>12 MS. ELLIOTT:</li> <li>13 A. No, not presentingwe do look at that. So my</li> <li>14 answer would be no, we don't have a standard</li> <li>15 MS. NEWBURY:</li> <li>16 Q. 15 years of data? Would you look for a 15-</li> <li>17 year trend?</li> </ul>
<ul> <li>9 MS. ELLIOTT:</li> <li>10 A. Um-hm.</li> <li>11 MS. NEWBURY:</li> <li>12 Q. And again, that was a 15-year -</li> <li>13 MS. ELLIOTT:</li> <li>14 A. We used 15 years of data, yeah, so -</li> <li>15 MS. NEWBURY:</li> <li>16 Q. 15 years of data? Would you look for a 15-</li> <li>17 year trend?</li> <li>10 V. O'M Init.</li> <li>9 MS. NEWBURY:</li> <li>10 Q. Do you have a standard approach for excluding</li> <li>11 data points when you use a 15-year trend?</li> <li>12 MS. ELLIOTT:</li> <li>13 A. No, not presentingwe do look at that. So my</li> <li>14 answer would be no, we don't have a standard</li> <li>15 approach of what we're excluding. Part of</li> <li>16 what weyou know, we have the data, that's</li> <li>17 one of the first things we do is look at the</li> </ul>
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17 Sole of the first things we do is look at the
18 MS FLUOTT data without any exclusions and L can'tvou
19 A Well that's one of as I said as the when we 19 know we run many versions of it and say what
20 started our discussion here, that we have 15 20 would happen if weyou know, what about this
20 started our discussion here, that we have 15 20 would happen if we-you know, what about this 21 years of data and we look at the data 15 21 point that point
22 years We look at not just ten years and five 22 MS NEWBURV.
22 years: we look at seven years. Yeah all 23 O And when you run those versions do you do
23 gents, we look at seven years. Tean, an 25 g. Thid when you run nose versions, do you do
124 your, you know, regression statistics to see

Page 121Page 121Page 1231 MS. ELLIOTT:1Now, I'm going to move on and ask about your3 MS. NEWBURY:2understanding of Facility's approach and more4 Q. And you have no recollection of what you would5specifically do you believe that they're4 Q. And you have no recollection of what you would4looking at a 20 year trend?5 have produced or what your results were for6A. Notform 2012 now. I do so many, no, I9 wouldn't-76A. I believe that they are looking at 20 years of7 MS. ELLIOTT:76A. I believe that hey are looking at 20 years of9 wouldn't-9Q. Okay, And if you were looking at 20 year10 MS. NEWBURY:10period in conducting a trend analysis, would11 Q. So, you didn't do that in relation to this11you be able to detect if there is more than12 particular report for May 16, 2014?13MS. FELLIOTT:13 MS. FELLOTT:14A. Would Ido we have the capabilities within14 A. No.15MS. NEWBURY:16 Q. No, okay.17Nor Kescl?17 provide, either look for and provide the 151718 may eincluded in that.20MS. NEWBURY:21 ou done a 15 year analysis of a trend, you2122 d. I data and it's an easy process for us to run233 our model.244 did from haif year to half year, but you25 A. I don't recall the outliers and parameters,2527 data and it's an easy process for us to run233 our model.<	November 17, 2014	Multi-Page <sup>TM</sup>	Verbatim Court Reporters
1       MS. FELLIOTT:       1       Now, I'm going to move on and ask about your         2       A. Yes. It's an automatic output.       3       specifically (0 you believe that they're         4       Q. And you have no recollection of what you would       5       have produced or what your results were for         6       A. I believe that they're       4       looking at a 20 year trend?         7       MS. ELLIOTT:       6       A. I believe that they are looking at 20 years of         7       MS. NEWBURY:       9       Q. Okay. And if you were looking at 20 year         10       wouldh't-       9       Q. Okay. And if you were looking at 20 year         11       Q. So, you didn't do that in relation to this       11       you be able to detect if there is more than         11       particular report for May 16, 2014?       12       one trend present in that data?         13       MS. ELLIOTT:       13       MS. ELLIOTT:       14         14       A. No.       14       A. Would 1-do we have the capabilities within         15       our tangersite in that data?       12       oue that difter is more than         15       our Excel?       15       MS. ELLIOTT:       16         14       A. No.       15       MS. ELLIOTT:       10       Q. Yes.<	Pa	ge 121	Page 123
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21you done a 15 year analysis of a trend, you21Q. Okay. And I'm trying to distinguish between22can't recall what outliers you may or may not21Q. Okay. And I'm trying to distinguish between23have included in that.22the talk about the changing patterns this24MS. ELLIOTT:24updated from half year to half year, but you25A. I don't recall the outliers and parameters,25haven't actually identified any point in time,Page 1221but I know one of thewe have 15 years of2specifically, can you look at 20 years and say3our model.3here's a trend from this period to that4MS. NEWBURY:4period, it changes and now we're moving on to5Q. Okay. So, I'm going to request that you do5a different type of a trend. So, you're6saying that you do have the capability to do7that. Would one such trend be independent of8A. Okay.9trends in a 20 year period or a 15 year10Q. Chan we clarify the period? We're talking1113about a 15 year period, but where we start and1314where we end.14Q. That's correct.	20 analysis. So, you've indicated before that	20 MS. N	IEWBURY:
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23       have included in that.       23       morning where it's just a bit moreyou         24       MS. ELLIOTT:       24       updated from half year to half year, but you         25       A. I don't recall the outliers and parameters,       25       haven't actually identified any point in time,         24       MS. ELLIOTT:       24       updated from half year to half year, but you         26       A. I don't recall the outliers and parameters,       25       haven't actually identified any point in time,         25       data and it's an easy process for us to run       2       specifically, can you look at 20 years and say         3       our model.       3       here's a trend from this period to that         4       MS. NEWBURY:       4       period, it changes and now we're moving on to         5       Q. Okay. So, I'm going to request that you do       5       a different type of a trend. So, you're         6       that please (REQUEST).       6       saying that you do have the capability to do         7       MS. ELLIOTT:       9       trends in a 20 year period or a 15 year         10       period?       11       MS. ELLIOTT:         12       Q. Can we clarify the period? We're talking       12       A. Would they be independent?         13       about a 15 year period, but where	22 can't recall what outliers you may or may no	22	the talk about the changing patterns this
24 MS. ELLIOTT:24Infinity from half year to half year, but you25 A. I don't recall the outliers and parameters,25haven't actually identified any point in time,Page 122Page 1221but I know one of thewe have 15 years of1but I'm wondering, you know, more2data and it's an easy process for us to run2specifically, can you look at 20 years and say3our model.3here's a trend from this period to that4 MS. NEWBURY:4period, it changes and now we're moving on to5Q. Okay. So, I'm going to request that you do5a different type of a trend. So, you're6that please (REQUEST).6saying that you do have the capability to do7MS. ELLIOTT:7that. Would one such trend be independent of8A. Okay.9trends in a 20 year period or a 15 year10Q. Thank you.10period?11MS. ELLIOTT:1112Q. Can we clarify the period? We're talking1213about a 15 year period, but where we start and1314where we end.14Q. That's correct.	have included in that.	23	morning where it's just a bit moreyou
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<ul> <li>5 Q. Okay. So, Thi going to request that you do</li> <li>6 that please (REQUEST).</li> <li>7 MS. ELLIOTT:</li> <li>8 A. Okay.</li> <li>9 MS. NEWBURY:</li> <li>10 Q. Thank you.</li> <li>11 MS. GLYNN:</li> <li>12 Q. Can we clarify the period? We're talking</li> <li>13 about a 15 year period, but where we start and</li> <li>14 where we end.</li> </ul>	4 MS. NEWBURY:		a different type of a trend. So you're
<ul> <li>a for a please (REQUEST).</li> <li>b another trend, if you do have the capability to do</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>c another trend, if you do find two or more</li> <li>d period?</li> <li>d about a 15 year period, but where we start and</li> <li>d where we end.</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two or more</li> <li>d another trend, if you do find two</li></ul>	5 Q. Okay. So, 1 in going to request that you do	) 5	a different type of a field. So, you le
<ul> <li>7 Ms. ELLIOTT:</li> <li>8 A. Okay.</li> <li>9 MS. NEWBURY:</li> <li>10 Q. Thank you.</li> <li>11 MS. GLYNN:</li> <li>12 Q. Can we clarify the period? We're talking</li> <li>13 about a 15 year period, but where we start and</li> <li>14 where we end.</li> <li>7 that. Would one such thend be independent of</li> <li>8 another trend, if you do find two or more</li> <li>9 trends in a 20 year period or a 15 year</li> <li>10 period?</li> <li>11 MS. ELLIOTT:</li> <li>12 A. Would they be independent?</li> <li>13 MS. NEWBURY:</li> <li>14 Q. That's correct.</li> </ul>	6 that please (REQUEST).	0	that Would one such trend he independent of
<ul> <li>8 A. Okay.</li> <li>9 MS. NEWBURY:</li> <li>9 trends in a 20 year period or a 15 year</li> <li>10 Q. Thank you.</li> <li>11 MS. GLYNN:</li> <li>12 Q. Can we clarify the period? We're talking</li> <li>13 about a 15 year period, but where we start and</li> <li>14 where we end.</li> <li>18 another trend, if you do find two of more</li> <li>9 trends in a 20 year period or a 15 year</li> <li>10 period?</li> <li>11 MS. ELLIOTT:</li> <li>12 A. Would they be independent?</li> <li>13 MS. NEWBURY:</li> <li>14 Q. That's correct.</li> </ul>	/ MS. ELLIOTT:	/	another trend if you do find two or more
9 MS. NEWBURY:9 Utends in a 20 year period of a 15 year10 Q. Thank you.10 period?11 MS. GLYNN:11 MS. ELLIOTT:12 Q. Can we clarify the period? We're talking12 A. Would they be independent?13 about a 15 year period, but where we start and13 MS. NEWBURY:14 where we end.14 Q. That's correct.	8 A. OKAY.	8	trends in a 20 year pariad or a 15 year
10Q. Thank you.10period?11MS. GLYNN:11MS. ELLIOTT:12Q. Can we clarify the period? We're talking12A. Would they be independent?13about a 15 year period, but where we start and13MS. NEWBURY:14where we end.14Q. That's correct.	9 MS. NEWBURY:	9	neriod?
11 MS. GLYNN:11 MS. ELLIOTI:12 Q. Can we clarify the period? We're talking12 A. Would they be independent?13 about a 15 year period, but where we start and13 MS. NEWBURY:14 where we end.14 Q. That's correct.	10 Q. Thank you.	10 11 MG T	
12Q. Can we clarify the period? We re tarking12A. would they be independent?13about a 15 year period, but where we start and13 MS. NEWBURY:14where we end.14Q. That's correct.	11 MS. GLYNN:	11 MS. E	LLIOII: Would they be independent?
13about a 15 year period, but where we start and15 MS. NEWBURY:14where we end.14Q. That's correct.	12 Q. Call we clarify the period. We le talking	12 A.	
14 Where we end. 14 Q. That's correct.	about a 15 year period, but where we start an	10 13 MS. N	That's correct
	14 where we end.	14 Q.	That's confect.
15 MS. NEWBURY: 16 O. Wall lat's any we've been doing the end of	15 MS. NEWBURY:	f 15 MS. E	LLIOII:
16 Q. well, let's say, we've been doing the end of 16 A. It's possible that they re independent, sure.	16 Q. well, let S say, we ve been doing the end of $2012$ and also hume $2012$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	It's possible that they ie independent, sure.
17 2012, so December 2012 and also June 2012. 17 MS. NEWBURY:	17 2012, so December 2012 and also June 2012	2. 17 MS. N	EWBURY:
18 MS. ELLIOTT: 18 Q. Okay, but if they fe two distinct trends, if	18 MS. ELLIOTT:	18 Q.	Okay, but if they re two distinct trends, if
19 A. 105, OKAY. 19 you decided that they fe going up at a	19 A. 105, UKAY.	19	you decided that they le going up at a
20 MS. GLYNN: 20 consistent rate for six years and then for the	20 MS. GLYNN:	20	consistent rate for six years and then for the
21 Q. And 15 years back, okay. 21 next seven years, they are stable and then the	21 Q. And 15 years back, okay.	21	next seven years, they are stable and then the
22 MS. NEWBURY: 22 Intal few years, they go on a downward direction would do direction would the values that would far	22 MS. NEWBURY:	22	direction would the volves that we get for
25 Q. And for boundy injury, also if you could do 25 direction, would the values that you get for the same every influence that the	25 Q. And for boundy injury, also if you could do	23	uncerton, would the values that you get for
24 une same exercise for two periods, 1770 fff - 24 period one de in, any way, influenced by the 25 2004 H1 and 2004 H2 to 2012 H2 (REOLIEST) 25 values in period 3 or could you basically look	24 the same excluse for two periods, 1998 HI 25 2004 H1 and 2004 H2 to 2012 H2 (PEOLI	$  ^{24}$	values in period 3 or could you basically look

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1 at the third period and say, well this i	s 1 MS. ELLI	OTT:
2 separate.	2 A. W	ell thesure. The reason why we're
3 MS. ELLIOTT:	3 co	ncerned is that they're taking 20 years of
4 A. Right.	4 da	ta and they're assuming as part of their
5 MS. NEWBURY:	5 m	odel for every coverage, collision, AB,
6 Q. Whatever happened back in 2002 for ex	ample is 6 pr	operty damage, BI, they're assuming that the
7 not going to influence what my claims	costs 7 20	02 reforms affected all of those coverages.
8 are going to be a year from now?	8 A1	nd they come up with reforms costs, and AB
9 MS. ELLIOTT:	9 wa	as a big example with the reforms causing
10 A. Sure, and there's different ways to run	na 10 cla	tims to reduce by 73 percent. And so
11 model. You can run a model over the fu	ıll 20- 11 the	ey've said that there's a change that
12 year period and then layer on top of the	at a 12 oc	curred at 2004-2 that there's a new trend
13 different trend rate, so thoseone long t	rend 13 rat	e because of reforms caused this big
14 rate isn't merged in with the separate tr	end 14 ma	assive reduction in costs for AB, down 73
15 rate.	15 pe	rcent, and now everything is trending
16 MS. NEWBURY:	16 dif	fferently at that point. So you have to buy
17 Q. Yes.	17 in	that the reforms caused AB to drop by 73
18 MS. ELLIOTT:	18 pe	rcent and then say now the trend rate is
19 A. Or you can slice it up into two separates	one, 19 dif	fferent at that point. So if you accept
20 which I understand is what FA did.	20 th	at there's reforms, that there's a change in
21 MS. NEWBURY:	21 pa	ttern at that point, that the reforms caused
22 Q. Okay. So they had two separate trend i	ates, 22 thi	s drop, and now you're just going to look
and is it your understanding that the sec	cond 23 at	that eight-and-a-half-year period because
trend rate is separate and distinct from	the 24 yo	u think the trend rate, the direction has
25 first trend rate?	25 ch	anged from the prior periods. Over the 20
	Page 126	Page 128
1 MS FLLIOTT	1 ve	ars you might see a trend rate going this
2 A It's my understanding that they take the	trend 2 w	av for AB and then it goes that way
3 rate over the period the eight and a ha	alf $3$ sta	urting at 2004-2. That's what the FA model
4 years from 2004-2 to 2012-2 and that t	period 4 is	So although they are effectively just
5 is their measured trend rate that's applie	r = 100	ing that last eight and a half years it is
6 taxi experience yeah	$\frac{1}{6}$	iven by saving "Here's a low point from
7 MS NEWBURY:		04-2 and we think costs decreased by 73
8 0 Okay So if the capability exists fo	r 8 pe	rcent for AB and now they're going up " If
detecting multiple trends which might o	cour in 9 yo	u buy that then you can buy that there's a
a 20-year period of time why would y	$r_{00}$ be $10$ ch	ange in direction
10 a 20 year period of time, why would y	at a $20_{-}$ 11 MS NEW	
12 year period you know in looking at the	data? 12 0 01	cay so I take it from your evidence that
12 year period, year know, in looking at the	of 13 vo	ur concern with Mr. Doherty and Facility
14 criticism I guess or you've got sor	ne 14 us	ing 20 years of data isn't necessarily the
15 differences of opinion as to why he would	ild look 15 fac	t that he's used 20 years of data. It's
16 at 20 years of data?		at that you disagree that there's been an
17 MS ELLIOTT.	10 Ju.	nact from the reform in 2004?
$17 \text{ MS. ELEIOTT.}$ $18  \Delta  \text{Um-hm}$	18 MS FLLI	
19 MS NEWBURY	10  MS. ELLI 10 $\Delta \Delta_1$	nd I think what happens with this approach is
20 0 But when in fact he's identified that the	re is $20$ as	suming for all the coverages that there was
21 a separate and distinct trend in the las	$\frac{20}{12}$ as $\frac{20}{21}$ as	impact on the reform. That's what they do
22 eight and a half years why would you	$a$ be $2^{21}$ $a^{11}$	nev don't explain in their rate filing why
22 concerned that he initially started out	$\frac{22}{11}$	sts for BI would have gone down 73 percent
24 looking at the first twalve, and a half wa	23 $23$ $10$	r reforms and so in doing so and in
24 IOOKING at the first twelve and a fiall ye	aro [24 10]	centing what their model prints out for
125 OF CICYCH and Half years?	25 aC	copung what men model prints out 101

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	Р	age 129			Page 131
1	them, accepting this reform cost, they are r	10w 1	1 N	AS. NE	EWBURY:
2	forced to say, "I have this eight-and-a-half	- 2	2	Q.	So it wasn't that he's trying to force -
3	year period, from 2004-2 to the end of 202	12. 3	3 N	AS. EL	LIOTT:
4	I have this eight-and-a-half-year period, so	o 4	4	Α.	No.
5	now I have to kind of work with it becau	se 5	5 N	AS. NE	EWBURY:
6	things have changed." See it kind of, I	$\epsilon$	6	Q.	- a reform into the data.
7	think, forces them into a little bit of a box	7	7 N	AS. EL	LIOTT:
8	that they've now accepted, that the reform	ns 8	8	Α.	Yeah.
9	changed things starting in 2004, reduced	AB 9	9 N	AS. NE	EWBURY:
10	costs by 73 percent, and now we have a n	new 10	0	Q.	It's just that data suggested it and the
11	pattern. ItI think it puts them in a little	11	1		statistics confirmed that from his analysis,
12	bit of a box and now I have eight and a ha	lf 12	2		but in terms of your comment that he's chosen
13	years to work with going forward and nov	v I'm   13	3	i	a box, it's an eight-and-a-half-year box, and
14	going to see what happened to the trend ra	ite 14	4		how he had to force everything to fit that,
15	over that period. So using the 20 years,	15	5		how is that any different than selecting a
16	assuming that the reforms affected all the	e 16	6	]	predetermined length of time such as ten
17	coverages, limits them to this eight-and-a	- 17	7		years? Would that not suffer from being
18	half-year period going forward.	18	8		considered forced into a box and not seeing
19	MS. NEWBURY:	19	9		what happened in a longer period of time?
20	Q. Now it was actually Mr. Doherty's evide	nce 20	0		What's magical about the ten years?
21	that he didn't assume that there was an	21	1 N	AS. EL	LIOTT:
22	impact. In fact, he was looking at the data	ı 22	2	А.	Well, our difference is that we do look at the
23	and tested four possibilities that that	23	3	i	ten years ending December 2012. We look at it
24	happens. And I understand that you look	at 24	4		ending June 2012. We look at the five years
25	these type of things as well, you	25	5		under two alternatives. So we look at
	Р	age 130			Page 132
1	automatically look at EI and CPI, so the fact	i   1	1		alternatives, and when we look at those
2	that he looked at the 2004 reform as a	2	2	i	alternatives, we see that very different
	potential for a change in the trend isn't any	/ 3	3		calculated trend rates present themselves. So
	different than what you do, is that correct?	4	4 -		that s what s different. FA is presenting one
5	MS. ELLIOTT:	5	5		calculation with this eight-and-a-half-year
	A. IES.	6	6 7		period that they are using, and that's the
	MS. NEWBURY:		/		number that they re picking. We re saying
	Q. 105.	0	8 0		different evolucione, you get yory different
10	MS. ELLIOIT:	to 10	9		numbers, and we need to take this uncertainty
	measure for that yes		1		of the data into consideration in our
	MS NEWBURY	11	1 2		selection That's the difference
12	A = 0 Now be actually says in his evidence that y	Vac 13	2 3 N	AS NE	
13	the statistics that made him conclude that	vas 15 t 1/	з IV Л	0 NI	So you'reyou think that the fact that you're
15	something changed then He wasn't ex	ven 15	- -	Q.	taking four different regressions over four
16	necessarily sure that it was the reform but	t 16	5 6		different periods of timedifferent lengths
17	there were changes and it was actually the	ne 17	7		of time and averaging those out would
18	numbers and the regression statistics that	18	, 8		actually take care of any issues with
19	confirmed indeed -	. 19	9		restricting yourself to a ten-day period of
20	) MS. ELLIOTT:	20	0		time because you're adjusting it? It's not
$ _{21}^{20}$	A. Yeah.	20	1		iust ten years, it's ten years and then we'll
$ _{22}$	MS. NEWBURY:	22	2	•	shift it back by six months. so that'll be a
23	Q that there was a change there.	23	3		separate ten-year period time, and then we'll
24	MS. ELLIOTT:	24	4		also limit it to the most recent five years
25	A. Sure.	25	5		and shift that back?

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1	MS. ELLIOTT:		1		vourself to looking at the ten-year period of
2	A. Um-hm.		2		time -
3	MS. NEWBURY:		3	MS. E	LLIOTT:
4	Q. So that, in your view, that takes care of the-		4	A.	Um-hm?
5	-having a predetermined length of time?		5	MS. N	EWBURY:
6	5 MS. ELLIOTT:		6	0.	- if you happen to have a different trend that
7	A. What we're trying to do is find a balance		7		ended for example in the first couple of years
8	between being responsive and stable. So yes,		8		of that ten-year period of time, don't you run
9	we take the various averages over the ten-year	r	9		the risk that you are going to be missing that
10	periods and the five-year periods, and make		10		previous trend?
11	your selection, and draw in what we selected		11	MS. E	LLIOTT:
12	the prior period. And that we believe gives		12	A.	Well, we would see it when we look at theif
13	us a responsive and stable approach to the		13		I'm understanding what you're saying, in the
14	loss trend selection. I'm not an advocate of		14		more recent period, if we look at the five-
15	doing one run with this data, looking at what		15		year trend, we would see that.
16	the number is. The R square, you know, it		16	MS. N	EWBURY:
17	we're not looking at R squares that are up in		17	0.	And how would you see that?
18	the nineties and it's a great fit. FA has		18	MS. E	LLIOTT:
19	presented their one run, and that's their		19	A.	Because we calculate it.
20	selection, and I maintain that you can exclude	:	20	MS. N	EWBURY:
21	different points, different time periods, and		21	0.	So you can see that if you've got Year 1 and
22	get very different numbers because the data is		22		Year 2 which is the tail end of a trend from
23	volatile. And if you just pick one number and	1	23		the ten-vear period before that, or five-vear
24	say. "That's it, that's right. I've got the	-	24		period before that -
25	bet fit." you may not have the right answer.		25	MS. E	LLIOTT:
-	Page	124	-		Dogo 126
1	r age This data is yory valatile. I'm really saving	5 1 3 4	1		Fage 150
	it very uncertain		1	А.	you referring to?
	MS NEWDUDV.		2	MC N	
	MS. NEWDURI:		3	MS. N	Ewburn: These are just examples
	Q. So if you result yourself to the ten-year		4	Q.	Liort.
	the first few years of that period of time		5	MS.E	Sure
	might actually contain a concrete and distinct		0	A.	
	trand and you're only actabing the tail and		/	MS. N	EWBURI: This is a hypothetical quastion. So if you
	of that in your ten your analysis? Do you		8 0	Q.	are locking at a ten year period of time, and
	take that into account in your approach?		9 10		wow've get the first two years which
	MS ELLIOTT		10	MOD	you ve got the first two years which -
	MS. ELLIOIT:		11	MS. E	Okey well which are the first two years? The
	A. well, we le looking at ten years of data and		12	А.	okay, wen which are the first two years? The
13	nieasuring the change over that ten-year		13	MON	FUELDN
14	e period.		14	M5. N	EWBURY:
15	MS. NEWBURY:		15	Q.	The older years.
	Q. Ies.		10	MS. E	
	MS. ELLIOIT:		1/	A.	Okay.
	A. We re and then we re also looking at the mo	re	18	MS. N	EWBURY:
19	that partial of time. So, and musice change in		19	Q.	res. So the olderthe oldest of the two
$ ^{20}_{21}$	inal period of time. So-and we're also		20	Ma E	years.
$\begin{vmatrix} 21 \\ 22 \end{vmatrix}$	seeing preuv anterent results for that. So		21	MS.E	LLIUTT:
$ ^{22}$	think our approach is, you know, what we		22	A.	
$ ^{23}$	unitik is a reasonable approach.		23	MS. N	EWBUKI: Voor 1 and Voor 2 aut of tan average harmon t
$ ^{24}$	MS. NEWBURY:		24	Q.	rear 1 and rear 2 out of ten years happen to
125	Q. But my question is that if you restrict		25		be the tail end of a trend from thea

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<ol> <li>previous period of time.</li> <li>MS. ELLIOTT:</li> <li>A. Um-hm.</li> <li>MS. NEWBURY:</li> <li>Q. How would looking at the most recent f</li> <li>years detect that previous trend?</li> <li>MS. ELLIOTT:</li> <li>A. Well if you're not including that in the five</li> <li>year model, you're not going to see that.</li> <li>MS. NEWBURY:</li> <li>Q. Yes.</li> <li>MS. ELLIOTT:</li> <li>A. But if you look at the full ten years, and you</li> <li>look at your fitted values and your actua</li> <li>values, and compared that, you're going to</li> <li>any differences there. Yeah, and it might</li> <li>force you to, you know, look at that and m</li> <li>you're going to decide that you're not goi</li> <li>to use those more recentthe first year an</li> <li>the second year -</li> <li>MS. NEWBURY:</li> <li>Q. Yes.</li> <li>MS. ELLIOTT:</li> </ol>	1       Q.         2       3         4       5         6       7         e-       8       MS. E         9       A.         10       11         12       MS. N         10       11         12       MS. N         10       13         11       12         12       MS. N         13       Q.         14       MS. E         0       see         15       A.         10       17         13       Q.         14       MS. F         15       A.         16       MS. F         20       21         21       MS. N         22       Q.         23       MS. F         24       A.	Is it possible that the Facility Association charts which showed the full 20 years of data as opposed to 15 years of data would allow the additional data to reveal a separate trend that started in the, say, the mostthe earliest of the five years of that 20-year period of time? ELLIOTT: So you're asking me if a trend occurred in 1993 to 1998 in there, if it identified something different going on? VEWBURY: Well it could be a trend that starts in '96 - ELLIOTT: Sure. VEWBURY: - and ends in 2002 or - ELLIOTT: In fact, in think there was. I think the frequency, it was going up then. VEWBURY: Yes. ELLIOTT: And then around 2000 it started declining.
25 MS. NEWBURY:	25 MS. N	VEWBURY:
<ul> <li>1 Q. Right.</li> <li>2 MS. ELLIOTT:</li> <li>3 A. The direction is changing. Certainly you lo</li> <li>4 at the data.</li> <li>5 MS. NEWBURY:</li> <li>6 Q. But you're not looking to see whether or n</li> <li>7 there's actually more than one trend going</li> <li>8 and I'm restricting myself to ten years?</li> <li>9 MS. ELLIOTT:</li> <li>10 A. We absolutely look at the data to see what</li> <li>11 going on with the data. We absolutely do.</li> <li>12 MS. NEWBURY:</li> <li>13 Q. Okay, beyond the ten years?</li> <li>14 MS. ELLIOTT:</li> <li>15 A. We look at the data.</li> <li>16 MS. NEWBURY:</li> <li>17 Q. Yes.</li> <li>18 MS. ELLIOTT:</li> <li>19 A. The 15 years, to see what is going on with</li> <li>20 data.</li> <li>21 MS. NEWBURY:</li> <li>22 Q. Okay, but not 20 years?</li> <li>23 MS. ELLIOTT:</li> </ul>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Yes. 2LLIOTT: Sobut I already know that because I looked at that data before. So yeah, but what am I going to do with it in 2015? VEWBURY: Okay. So you don't feel that there's any advantage looking at an additional five years of data, at the, you know, the earliest 15 to 20 years ago for example. 2LLIOTT: I don't think looking at 1993 to 1997 in 2015 is going to help in any way. And I have looked at that data over time. Now let's not- you know, as I said, we've been doing this, looking at trend rates over a period of time. I have some, vague as it may be, recollection of data from back then. VEWBURY: Okay, and is there a harm in looking at the full 20 years of data? 2LLIOTT: No harm. No harm in looking at it, no.
A. No, not 20 years. MS. NEWBURY:	24 MS. N 25 0	VEWBURY: Now it's your evidence, and you just alluded

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1	to it again, that there has been a change in		1 MS	. NEWBURY:
2	frequency. I think you've indicated since		2 (	O. Okay. You referred to the CA 0W 001, page 1
3	2002? Is it 2002 that you -		3	of that report. You state in that report
4	MS_ELLIOTT:		4	that. "We modelled the data several different
5	A Earlier I think there was an increasing		5	ways in an attempt to identify the underlying
6	nattern and then it started to decline		6	trends during the experience period with and
	MS NEWBLIDV.		7	without certain data points that are
<sup>′</sup> 。	O Okay		0	considered to be statistical outliers and
	Q. OKAY.		0	over time, periods that are longer than the
10	MS. ELLIOTT.	1	9	over time periods that are longer than the
	A. I Call.	1		experience period.
	MS. NEWBURY:	1	I MS	ELLIOIT:
12	Q. And that has increased? That is continuing to		2 1	A. Softy, is this on the screen or -
13	this day, the change in frequency?	1	3 MS	NEWBURY:
14	MS. ELLIOTT:	1	4 (	2. Perhaps we can scroll down a little bit to see
15	A. I believe that the frequency is a decline,	1	5	where that is. It's the third paragraph. I
16	yeah.	1	6	don't believe that's the one. Oh, it's page
17	MS. NEWBURY:	1	7	4, is it? Sorry. I've got the wrong page over
18	Q. Okay. And that's over quite a long period of	1	8	there. Just bear with me for a minute.
19	time then in that case? So you can have a	1	9 MS	. GLYNN:
20	trend that goes for more than ten years?	2	20 0	Q. I think we have it there on the screen now,
21	MS. ELLIOTT:	2	21	Jennifer.
22	A. Yes, we'reand I said that we're seeing this	2	22 MS	. NEWBURY:
23	decline in the frequency rate in many	2	23 (	Q. Oh, is there?
24	provinces.	2	24 MS	. GLYNN:
25	MS. NEWBURY:	2	25 (	Q. Yes.
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1	Q. Yes.		1 MS	. NEWBURY:
2	MS. ELLIOTT:		2 0	2. Yes, sorry, it's the fourth paragraph, at the
3	A. And we attribute that more so in the last ten		3	very end. Okay? So. "We modelled the data
4	vears to advances in technology with vehicles.		4	several different ways in an attempt to
5	MS. NEWBURY:		5	identify the underlying trends during the
6	0. And given that you do recognize that there is		6	experience period with and without certain
	a trend in frequency in and of itself which		7	data points that are considered to be
	would be not necessarily the same as the trend		8	statistical outliers and over time periods
	in loss costs or severity would that mean		9	that are longer than the experience period as
	that it should be important or beneficial to	1	0	a means of increasing the stability
	look at these trend rates separately?	1	1	reliability of the data being analyzed " Now
12	MS ELLIOTT.	1	1 1	there's several different ways that you refer
12	A Absolutaly and we do that yeah	1	2	to modelling the data. Can you explain what
13	A. Adsolutely, and we do that, yean.	1	1.5	that magne?
14	MS. NEWBURI.	1	4 5 MC	
15	Q. Okay. Now in the field fates that you've	1	S MS	. ELLIOIT.
10	provided, there are actually-it's one trend	1		A. What we le trying to express here is that we
	lass costs?	1	. /	nork at measuring the trend rate. Tou know,
18	IUSS CUSIS (		ð	word but many ing the trend rate over
19	MS. ELLIUIT:		19	word, but measuring the trend rate over
$ ^{20}$	A. Kight, because when thein the application of	2	20	several different time periods with different
21	the trend rate it is one number. In the	2	21	exclusions and that's what we're trying to
$ ^{22}$	exhibit prepared by FA they take their taxi	2	22	express there.
23	experience and they apply the loss trend	2	23 MS	NEWBURY:
24	factor. It's one number that's presented for	2	24 (	Q. Okay. So basically it's theyou have some
25	the loss costs, yeah.	2	25	specifics in your report about the time

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1	periods and the data exclusions, but you're	1		because it's so limited and volatile, we do
2	saving that you did much more than that?	2		not get as good fits, our R squares are not
3	MS. ELLIOTT:	3	3	what we'd like them to be.
4	A. Yes.	4	MS.	NEWBURY:
5	MS. NEWBURY:	5	5 O	o. Okav.
6	O. But you haven't produced the reports and	6	5 MS.	ELLIOTT:
7	haven't necessarily kept all of that	7	A	And it's a difficult data to fit.
8	information? You're just saving that you have	8	MS.	NEWBURY:
9	done a bunch of other models?	g	) $0$	Okay. So, you do use this T statistic in your
10	MS_ELLIOTT:	10	)	own trend analysis or analyses?
11	A. Right, we showed earlier a 2012 exhibit where	11	MS.	ELLIOTT:
12	there was a summary of some of the runs that	12	2 A	Um-hm.
13	we prepare -	13	MS.	NEWBURY:
14	MS NEWBURY:	14		And how is that related to the P value which
15	0. Yes, okay.	15	i i	Mr. Doherty has referred to from time to time
16	MS FLLIOTT	16	ñ	in his evidence and in some of his
17	A - that are broader than what's presented in	17	,	documentation?
18	the summary in the discussion section for	18	MS	FI LIOTT.
19	each coverage	19	$\rightarrow \Delta$	They're actually similar measures if you have
$ _{20}^{17}$	MS_NEWBURY	20	)	a low P value vou'll tend to have a high T
$ _{21}^{20}$	0 Okav	21	,	statistic measure
$\begin{vmatrix} 21 \\ 22 \end{vmatrix}$	MS FLLIOTT	21	MS	NEWBURY.
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$	A Yeah	23		And is there a way of describing like you
$\begin{vmatrix} 2.3 \\ 2.4 \end{vmatrix}$	MS NEWBURY	20		know what does P value mean? Is it -
$ _{25}^{24}$	O And would that be comprehensive? Would that	25	MS	FLI JOTT.
		16	- 1010.	Dece 149
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	include everything that you did?		. A	in directs whather they recommended that way're
	MS. ELLIOTT:		2	indicate whether they parameter that you re
	A. INO.	3	)	using adds to theso, say if you incorporated
	MS. NEWBURY:			value was 2.5 and your B value was 0001
3	Q. And now do you measure the various models in terms of their shility to identify underlying	0	)	value was 5.5 and your P value was .0001,
	terms of their ability to identify underlying		)	you d think yean, okay, that's pretty good. I
	trends during the experience period?		,	really should include precipitation in my
8	MS. ELLIOTT:	8	5	model. So, there are different values that
9	A. Well we have a number. There's standard stats	9	)	you re looking for for P test and a 1 test,
10	that are produced, and we re looking at a	10	)	but both are trying to indicate that the
	measure called an R square, we re looking at,	11		parameter is adding to your fit. It's a good
12	and a 1 statistic. They would be the two	12		parameter to use.
13	common ones that we look at to determine	13	S MS.	NEWBURY:
14	whether the parameters are significant in the	14	L Q	b. But does it have any sort of meaning, you
15	model.	15	5	know, it'syou often hear about stats,
16	MS. NEWBURY:	16	)	something is correct 99 times out of a hundred
17	Q. And how would you describe the T statistic to	17		or -
18	lay people like most of us?	18	B MS.	ELLIOTT:
19	MS. ELLIOTT:	19	) A	. Sure, and I don't have the T test book. I
$ ^{20}$	A. Sure. Well there's a set value, and we're	20	)	mean, there s a whole page of numbers, but
21	really looking at what is the value of the T	21	-	yes, there s a book and there s a value that s
$ ^{22}$	statistic. Typically we want to see a number	22		printed that you're looking at, yeah.
$ ^{23}$	of two or higher to indicate that that	23	MS.	NEWBURY:
$ ^{24}_{2-}$	parameter is significant, that's it's adding	24	FQ.	in describing it to be used by L d. T
125	to the model. And certainly with this data	25	)	in describing it to lay people? Is the T

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1 statistic more useful when dealing with	other, 1		that particular data point to be different.		
2 you know, technical people and the P	value 2		And we spoke earlier about and example in		
3 more helpful when dealing with lay pe	ople in 3		Vancouver where they found the precipitation		
4 terms of its -	4		was causing a difference. So, yes, you have a		
5 MS. ELLIOTT:	5		particular data point that you think is out of		
6 A. I don't know, we have fairly highly ed	ucated 6		keeping with everything else and if you		
7 people in the room, but I use T statistic	to 7		include that data point in your trend model,		
8 look at whether that value that we a	are 8		then perhaps you won't get the best		
9 including in the trend model adds to the	fit, 9		calculation or the best measurement that		
10 if it's significant.	10		you're intending to measure.		
11 MS. NEWBURY:	11	MS. N	NEWBURY:		
12 Q. And how would you choose to rely up	pon one 12	Q.	So, basically it's a data point that's out of		
13 description over the other? Why would	ld you 13		keeping with everything else and there might		
14 choose to refer to T statistic as opposed	to P 14		be an explanation for it, it might not be		
15 value?	15		necessarily an error in the data, there could		
16 MS. ELLIOTT:	16		be a very good explanation for it, like -		
17 A. You could have both, I mean, if not obj	ection 17	MS. E	ELLIOTT:		
18 to having both. You could have one, I	mean, 18	Α.	And sometimes you don't necessarily know what		
19 you could, it's just a value that if you w	vill, 19		the reason is. You just know that it's really		
20 comes out from an excel model.	20		different then everything else.		
21 MS. NEWBURY:	21	MS. N	NEWBURY:		
22 Q. Okay. And what is the term outlier, as	it's 22	Q.	And it may or may not be explainable.		
23 used in statistics?	23	MS. E	ELLIOTT:		
24 MS. ELLIOTT:	24	Α.	Unfortunately, that's true.		
25 A. Well, there'd be a common term, often	tor an 25	MS. N	NEWBURY:		
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1 outlier in statistical terms you're lookin	g at 1	Q.	And you noted that when you do your different		
2 the actual data and then you're looking	at the 2		ways of modelling the data that you will do it		
3 fitted data and then the difference betw	veen 3		with and without certain data points that are		
4 those two pieces of data.	4		considered to be statistical outliers. And		
5 MS. NEWBURY:	5		I'm wondering how would you determine if a		
6 Q. Um-hm. Can you get into a bit more	detail 6		data point is, in fact, an outlier?		
7 about specifically what an outlier is? Is	3 It 7	MS. E	ELLIOTT:		
8 different thanhow different?	8	Α.	Well, in our approach and in what I'm		
9 MS. ELLIOTT:	9		expressed earlier today, what we do is that we		
10 A. Well, that really is the issue is how	v 10		take the two highest and two lowest points, we		
11 different is it? What is that difference	e? [11]		teel that that helps reduce the, exclude the		
12 So, if you take all your data and you rul	a, try 12		points that are high and low out of the model		
13 to fit a line to it and maybe you have	a 13		in our measurement and that's the approach		
14 really good fit, but you ve got one piec	e of 14		that we ve taken and we do that from review to		
15 data that it's different from the actua	ll 15	MON	review.		
16 experience is really why maybe it's	much 16	MS. P	NEWBURY:		
17 Ingher of much lower, whatever the ca	ise may 1/	Q.	okay. And is it the consistent number of data		
10 MS NEWBURY.	18		exclude in some reviews one data point for a		
17 IVID. NEWDUKI:	/ in 19		ten year period of time, and maybe, the port		
20 Q. Okay. SO, IS It Solt Of like all allothaly 21 the data? It's different from most of the	the $20$		time four data points for a tan year pariod		
21 the data is sufficient from most of 22 data that you know either it's a let hig	her $21$		of time?		
22 uata mat, you know, church it's a lot ling 23 or a lot lower -		МСТ			
24 MS ELLIOTT	23	тчьэ. E	Well I think that we typically when we're		
25 A. Right, there could be something that c	aused $\begin{vmatrix} 24\\25 \end{vmatrix}$	л.	looking at ten year, exclude two high and two		

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1 low and five years, one high and one low	7. 1	MS. ELI	JOTT:
<ul> <li>2 MS. NEWBURY:</li> <li>3 Q. Okay. And for a 15 year you don't have</li> </ul>	ve a 2 3	A. 1 t	here's tests where you can, you're looking at he difference and what the difference is for
4 typical exclusion.	4	e	ach of the data points, where you're
5 MS. ELLIOIT:		II h	heasuring those differences, there if be a sell curve of the differences and you're
7 in our report. So as I said earlier I don't		ti	rying to see how far within that hell curve
8 have a number for you	8	ť	hose differences lie ves
9 MS. NEWBURY:	9	MS. NE	WBURY:
10 Q. Okay. And do you do any testing to per	form, 10	Q. (	Okay. And you haven't done of any of this
if in fact, the data points, the two high, th	ne 11	s	ort of testing?
12 two low in a ten year period, for example	e, are 12	MS. ELI	LIOTT:
13 in fact outliers?	13	A. N	Not in this example, no.
14 MS. ELLIOTT:	14	MS. NE	WBURY:
15 A. Well, we are looking at the data without	any 15	Q. (	Okay. And why not?
16 exclusions. The actual data and how doe	es that 16	MS. ELI	LIOTT:
17 fit in looking at the differences, yes.	17	A. E	Because we've taken the approach that we're
18 MS. NEWBURY:	18	g	oing to exclude the two highest and the two
19 Q. Okay, but do you do any specific tests,	not 19	l	owest, the data is very volatile and that's
20 just comparing how does it look with	no 20	v	why, because it's so obvious to a lay person
21 exclusions and how does it look with t	iour 21	V	when you have a point up here and a point down
22 exclusions, two high and two low?	22		here that they re high and low.
23 MS. ELLIOIT:	-ho 24	MS. NE	WBURY:
25 fitted data. You can see graphically and	with 25	Q. C	e able to see some of the outliers. Would
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1 this commercial data, a layman can see s	ome of 1	У	ou expect an outlier to be obvious or
2 the outliers, I mean, they're fairly extrem	ne 2	n	oticeable all the time? Would each and every
3 because the data is so limited. But yes, a	s I 3	C	outlier seem obvious to the lay person?
4 said, we're excluding the two high and the	ne two 4	MS. ELI	LIOTT:
5 low.	5	A. V	Vell, I guess if you're looking at theno,
6 MS. NEWBURY:	6	n	ot all the time, no, not all the time, some
7 Q. Okay.	7	C	f the time here for sure.
8 MS. ELLIOTT:	8	MS. NE	WBURY:
9 A. We look at the actual data and the fitte	2d 9	Q. <i>F</i>	And in terms of the, I guess, the exclusion of
10 data, with no exclusions and see the	se 10	0	ata points as being outliers, it would seem
data and see these high points. That's w	the 11	l. r	form your approach that outliers occur in
12 data and see these high points. That s w	12 12	r F	igh/two low. What is the statistical support
14 MS NEWBURY	13	f	or this approach?
15 0 Okay Are there any names on any of th	e tests	MS ELI	JOTT.
16 that you perform?		A. I	don't think there's a statistical approach
17 MS. ELLIOTT:	17	t	hat I'm going to reference. It's the
18 A. No.	18	a	pproach that we've taken to try to smooth out
19 MS. NEWBURY:	19	t	he effect of the highs and the lows, the
20 Q. Are there standard tests to confirm wheth	ner a 20	e	xtremes that we are taking. I don't have
21 data point is, in fact, an outlier?	21	t	here's not a name for it.
22 MS. ELLIOTT:	22	MS. NE	WBURY:
23 A. Yes.	23	Q. (	Okay, but it is an assumption that if you have
24 MS. NEWBURY:	24	C	ne high outlier, then you'll have a matching
25 Q. And what are those standard tests?	25	10	ow outlier and if you have two high outliers,

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1	you'll have two matching low outliers?	e	1		and the two high outliers?	C
2	MS. ELLIOTT:		2 1	AS. E	LLIOTT:	
3	A. We're taking the approach that we can have	ve a	3	А.	Sure, on the column, Excluded Data	Points, you
4	more stable result by excluding the two his	gh	4		take the bottom four Y's and that wo	ould be the
5	and the two low points.		5		four excluded points.	
6	MS. NEWBURY:		6 1	AS. N	EWBURY:	
7	Q. And is it possible then that these are not		7	Q.	Sorry, I can't hear you very well.	
8	true outliers, that data points that you've		8 1	AS. E	LLIOTT:	
9	excluded?		9	A.	Sorry, on the column labelled Y's,	Excluded
10	MS. ELLIOTT:		10		Data Points, you take the bottom fou	ır Y's, is
11	A. It depends on what your standard is of tru	e	11		the simple way to express it, over the	he last
12	outliers.		12		ten-vear period as the excluded four	points.
13	MS. NEWBURY:		13 N	AS. N	EWBURY:	<b>F</b>
14	0. And what is a standard for true outliers?		14	0.	And which are the highs and which	h are the
15	MS_FLLIOTT·		15	×۰	lows?	in une the
16	A I don't know I guess you said that I don't	ł	16	AS F		
17	know what your standard is		17	чю. L. А	Well on the vellow highlight you ca	in see the
18	MS NEWBURY.		18	11.	values of the percentage changes and	the ones
10	O I'm going to refer you to several exhibits		10		that are positive are the highs and the	e ones
$\begin{vmatrix} 1 \\ 2 \\ 0 \end{vmatrix}$	These are the exhibits SD 1 through SD 4 Sc	<b>`</b>	20		that are positive are the highs and the	o as the
$ _{21}^{20}$	looking here at SD 1 now this is Mr	<i>'</i> ,	20		lows	o as the
$\begin{bmatrix} 2 \\ 2 \\ 2 \end{bmatrix}$	Doherty's I guess summary is his		21	AS N		
$\begin{vmatrix} 22 \\ 22 \end{vmatrix}$	understanding of your regression analysis	2	22 1	0	And can you identify those by the y	oor holf
$\begin{vmatrix} 23 \\ 24 \end{vmatrix}$	And this one SD 1 would be the ten year	s.	23	Q.	veor?	cai, nan
$\begin{vmatrix} 24 \\ 25 \end{vmatrix}$	period ending December 2012. Is that corre	act?	24	18 0		
25	period ending December 2012. Is that cont		2.5 1	VID. L.		Daga 1(0
	Pid Long damaten dath et energine herer e sherer	age 158			W-11 1 2002 1 2005 1	Page 160
	Did I understand that you ve have a chance	e to		A.	well, yes, I can. 2005-1, 2005-1 -	
$ ^2$	review these exhibits before?			MS. N	EWBURY:	
3	MS. ELLIOTT:		3	Q.	Are those high or low?	
	A. Yes, um-nm.			NS.E.	LLIOTT:	( <b>1</b>
5	MS. NEWBURY:	L	5	A.	we have to go across and they rel	low, the
6	Q. Okay. And can you just identify what the	low	6	(G. ).	negative.	
7	and high outliers here, that he's identified,		7 N	AS. N	EWBURY:	2002 111
8	but these were your outliers.		8	Q.	Okay. So, those two that you read,	2003 HI
9	MS. ELLIOTT:		9		and 2005 H1 are low.	
10	A. I can't see it on the screen to1 mean, I		10 N	AS. E	LLIOTT:	
	don't see the full page to tell you that.		11	Α.	Um-hm.	
12	MS. NEWBURY:	1	12 N	AS. N	EWBURY:	1
13	Q. Okay. I've got copies of the exhibit, I coul	d	13	Q.	And 2007-2 and 11-2 are the high va	alues.
14	provide that. I can provide these to you.		14 N	AS. N	EWBURY:	
15	MS. GLYNN:		15	Q.	And could we go through the same e	exercise for
16	Q. There's a binder on the desk containing al	1	16		the other three exhibits. So, what a	ire the
17	the exhibits as well.		17		two low outliers for SD 2?	
18	MS. NEWBURY:		18 N	AS. E		
19	Q. I'll be reterring to (inaudible - away from		19	А.	11-2 and 8-2.	
20	microphone) markings on that. So, I'll jus	st	20 N	AS. N	EWBURY:	C.
21	leave that -		21	Q.	That's right, there's onlythat's the	tive
22	MS. ELLIOTT:		22		year period, so there would be one of	t each.
23	A. Okay, yes.		23 N	MS. E	LLIOTT:	
24	MS. NEWBURY:		24	A.	Yes.	
25	Q. So, can you identify then the two low outli	ers	25 N	AS. N	EWBURY:	

Page 161       Page 161         1       0. So, the low is?       2         3 MS. ELLIOTT:       3       0. Ma for SD 37. So, that's at en year period       3       0. My question is more focused on how-and I         4       MS. NEWBURY:       3       0. My question is more focused on how-and I         9       A. That would be the 2002-2 and 2005-1 and yes.       10       understand that you've changed, that you've         9       A. That would be the 2002-2 and 2005-1 and yes.       10       10       NS. NEWBURY:         12       Q. Okay, thank you. And finally SD 4 which is       10       NS. NEWBURY:       11       A. Yes.         12       Q. Okay, thank you. And finally SD 4 which is       10       NS. NEWBURY:       13       0. But still we have an issue that an outlier was identified and that really doesn't have         15       MS. FLIJOTT:       13       0. But still we have an issue that an outlier was identified and two low.         16       A. Thre we have 8-2 and then the high is 7-2.       10       MS. NEWBURY:         12       Low So, So, comparing the two teny ear period of the so 2002-4 and Use reason is not start state and that you versent is no that's start and start is nored is somehody and exclude         14       that yas considered a low outlier is no that's start and we find that you'versent of the was a low outlier is nored is the period of time, but if you look at the	]	November 17, 2014	Multi-F	ag	e <sup>TM</sup>	Verbatim Court Reporters
1       0. So, the low is?         2       MS. FLIATT:         3       A. The S-2 and the high would be the 11-2.         4       MS. NEWBURY:         5       0. And for SD 37: So, that's a ten year period         6       ending June 2012, can you identify the two low         7       MS. ELLIOTT:         9       A. That would be the 2002-2 and 2005-1 and yes,         10       MS. ELLIOTT:         12       O. Kay, thank you. And finally SD 4 which is         13       the fire-year period ending June of 2012, and         14       what is the low outlier?         15       S. NEWERY:         16       A. There we have 8-2 and then the high is 7-2.         17       MS. NELLOTT:         18       O. Clay, So, comparing the two ten year period         19       A. There we have 8-2 and then the high is 7-2.         10       MS ELLIOTT:         11       A. Yes.         12       O. Clay, So, comparing the two ten year period         14       what is a low outlier is no         15       here and 1 stated arifer today that we did         16       A. There we have 8-2 and then the high is 7-2.         17       NS.WEUKY:         18       because you've decided on	ſ	Page	e 161			Page 163
2 MS. FLIOTT:       3       A. The 8-2 and the high would be the 11-2.         3 MS. NEWBURY:       3       Q. And for SD 3* So, that's a ten year period         4 MS. NEWBURY:       3       Q. And for SD 3* So, that's a ten year period         9 A. That would be the 2002-2 and 2005-1 and yes.       in values from on period to a comparable         10 then the high ones are the 7-2 and 11-2.       in MS. NEWBURY:         11 MS. NEWBURY:       0. Okay, thank you. And finally SD 4 which is         12 Q. Okay, thank you. And finally SD 4 which is       10 MS. FLIOTT:         13 MS. NEWBURY:       10 A. There we have 8-2 and then the high is 7-2.         16 A. There we have 8-2 and then the high is 7-2.       10 MS. NEWBURY:         16 M. There we have 8-2 and then we high is 7-2.       10 MS. NEWBURY:         17 MS. NEWBURY:       10 onger considered to be allow outlier when you         16 outlier considered to be allow outlier when you       10 onger considered to be allow outlier when you         12 SD 3, 2012. Can you explain why something       24       0. And you might run into the same problems if         25 similar ten year period of time with a simple       25 you look at the data, not just the change         26 A. There and I stated eadire today that we did       14 between periods of time, but if you look at         27 MS FLIJOTT:       22 A. That's correct.         28 JJ A Call December 20		1 O. So, the low is?		l		what did on what we did, present here.
3       A. The 8-2 and the high would be the 11-2.       3       Q. My question is more focused on howand I         4       MS.NEWBURY:       1       understand that you've changed, that you've         5       Q. And for SD 37: So, that's a ten year period       in values from on period to a comparable         6       outlers?       1       A. That would be the 2002-2 and 2005-1 and yes,         10       MS. BELHOTT:       1       A. Yes.         12       O. Kay, thank you. And finally SD 4 which is       1       A. Yes.         13       D. But still we have an issue that a nouticr was       1         14       what is the low outlier?       12       MS. NEWBURY:         15       MS. ELLIOTT:       12       MS. NEWBURY:         16       A. There we have 8-2 and then the high is 7-2.       17       MS NEWBURY:         18       O. Okay. So, comparing the two ten year period       16       mode somehow, because of, it seems to me it's         17       MS NEWBURY:       12       A. That was considered a low outlier when you         10       hot any considered to be a low outlier when you       10       10       because you've decided on a pre-determined         16       that was considered a low outlier when you       13       O. And you might run into the same problems if		2 MS. ELLIOTT:		2 M	S. NI	EWBURY:
4       MS. NEWBURY:       4       understand that you've changed, that you've constructions of the you you fill that you've changed, that you've prive you you you you way that we sheap the you you way.         15       MS ELLIOTT:       10       10       MS ELLIOTT:       21       10		3 A. The 8-2 and the high would be the 11-2.		3	0.	My question is more focused on howand I
5       Q. And for SD 37       So, that's a ten year period ending June 2012, can you identify the two low outliers?       5       abandoned the approach at looking the change in values from on period to a comparable of the following year, and now you         8       MS. ELLIOTT:       9       7       Part of the following year, and now you         10       A. That would be the 2002-2 and 2005-1 and yes, then the high ones are the 7-2 and 11-2.       1       MS. NEWBURY:         11       A. Yes.       12       MS. NEWBURY:         12       Q. Okay, So, comparing the two ten year period of times, so that's SD1 and SD 3, it's noted       0. But still we have an issue that an outlier was identified and that really doesn't have         13       MS. NELLIOTT:       10       model somehow, because of, it seems to me it's anything to do with the ease of somehody understanding what's happening; it's that the model somehow, because of, it seems to me it's as the five-year period of times, so that's SD1 and SD 3, it's noted       10         13       MS. NELLIOTT:       12       A. There we have solutier who you approach at was considered a low outlier is no outlier?         24       O. Naty you night run into the same problems if similar ten year period of time with a simple       21       MS. NELLIOTT:         25       shift back six months is now no longer a low outlier?       3       MS. NELLIOTT:       3         24       A. There and 1 stated earlier today that we did for the wallewe		4 MS. NEWBURY:	4	1		understand that you've changed, that you've
6       ending June 2012, can you identify the two low outliers?       6       in values from in period to a comparable period in the following year, and now you         7       MSK PLJUTT:       9       for then the following year, and now you         9       A. That would be the 2002-2 and 2005-1 and yes, then the high ones are the 7-2 and 11-2.       for then the high ones are the 7-2 and 11-2.       for then the high ones are the 7-2 and 11-2.         11       MSK PLJUTT:       for then the wear issue that an outlier was issue that issue that an outlier was issue that an outlier		5 Q. And for SD 3? So, that's a ten year period	4	5		abandoned the approach at looking the change
7       period in the following year, and now you         8       MS.ELLIOTT:         9       A. That would be the 2002-2 and 2005-1 and yes,         10       then the high ones are the 7-2 and 11-2.         11       MS.NEWBURY:         12       O. Okay, thank you. And finally SD 4 which is         13       the five-year period ending June of 2012, and         14       what is the low outlier?         15       MS.NEWBURY:         16       A. There we have 8-2 and then the high is 7-2.         17       MS.NEWBURY:         16       A. There we have 8-2 and then the high is 7-2.         17       MS.NEWBURY:         16       A. There we have 8-2 and then the high is 7-2.         17       MS.NEWBURY:         16       ot times, so that's Sto 1 and SD.3, it's noted         10       for times, so that's Sto 1 and SD.3, it's noted         21       tok the try year period in regression of the         23       SD.3, 2012. Can you explain why something         24       that was considered a low outlier in a very         25       sinif back six months is now no longer a low         2012 and December 2012, we were trying to use         3       MS.ELLIOTT:         24       A. Sure. The approach that we wer		6 ending June 2012, can you identify the two lo	w e	5		in values from on period to a comparable
8       MS. ELLIOTT:       8       focus on the actual data for that period of         9       A. That would be the 2002-2 and 2005-1 and yes,       0       MS. HUBORY:         11       MS. NEWBURY:       0       0.00000000000000000000000000000000000		7 outliers?		7		period in the following year, and now you
9       A. That would be the 2002-2 and 2005-1 and yes, then the high ones are the 7-2 and 11-2.       10       MS. FILLIOTT:         11       MS. NEWBURY:       11       A. Yes,         12       Q. Okay, thank you. And finally SD 4 which is the five-year period ending June of 2012, and       11       A. Yes,         13       the five-year period ending June of 2012, and       11       A. There we have 8-2 and then the high is 7-2.         16       A. There we have 8-2 and then the high is 7-2.       17       N. NEWBURY:         16       A. There we have 8-2 and then the high is 7-2.       17       No. NEWBURY:         16       A. There we have 8-2 and then the high is 7-2.       17       No. NEWBURY:         16       A. There we have 8-2 and then the high is 7-2.       17       No. NEWBURY:         17       MS. NELLIOTT:       18       because you've decided on a pre-determined         19       of times, so that's SD1 and SD3, it's noted       20       Then and two low.         21       longer considered a low outifier in a very       21       MS. NELLIOTT:         23       SD 3, 2012. Can you explain why something       23       MS NELLIOTT:         24       that was considered a low outifier in a very       24       O. And you might run into the same problems if         25       similar ten ye		8 MS. ELLIOTT:	8	3		focus on the actual data for that period of
10       then the high ones are the 7-2 and 11-2.       10       MS. ELLIOTT:         11       MS.NEWBURY:       10       MS. ELLIOTT:         12       Q. Okay, thank you. And finally SD 4 which is the low outlier?       13       Q. But still we have an issue that an outlier was tidentified and that really doesn't have is anything to do with the case of somebody understanding what's happening, it's that the 17         16       A. There we have 8-2 and then the high is 7-2.       17       MS.NEWBURY:         18       Q. Okay. So, comparing the two ten year period of times, so that's SD1 and SD 3, it's noted 10 of times, so that's SD1 and SD 3, it's noted 20       16       anything to do with the case of somebody understanding what's happening, it's that the 17         10       model somehow, because of, it seems to me it's 18       18       because you've decided on a pre-determined 20         20       that was considered to be a low outlier in a very 23       So 3, 2012. Can you explain why something 24       14       model somehow, because of it we low low?         24       that was considered a low outlier in a very 24       Q. And you might run into the same problems if 25       you look at the data, not just the change 27         25       similar ten year period of time with a simple       24       Q. And you might run into the same problems if 29         26       watter the larger percentage change approach to the same problem to if you look at that is an outlier for on etn-year period of t		9 A. That would be the 2002-2 and 2005-1 and ye	s,	)		time.
11       MS. NEWBURY:       11       A. Yes.         12       Q. Okay, thank you. And finally SD 4 which is         13       the five-year period ending June of 2012, and         14       what is the low outlier?         15       MS. NEWBURY:         16       A. There we have 8-2 and then the high is 7-2.         17       MS. NEWBURY:         18       Q. Okay. So, comparing the two ten year period         19       of times, so that's SD1 and SD 3, it's noted         20       that 2003 H1 which was a low outlier is no         21       longer considered to be a low outlier in a very         25       shift back six months is now no longer a low         24       that was considered a low outlier in a very         25       shift back six months is now no longer a low         21       shift back six months is now no longer a low         24       A. Sure. The approach that we were trying to use         3       here right yso, that it's difficult to make         26       what were the larger percentage change approach to the         29       what were the larger percentage changes and         10       exclusions just in our two reports for June         20       here, rightly so, that it's difficult to make         31       difficult to follo		10 then the high ones are the 7-2 and 11-2.	10	) M	S. EI	LIOTT:
12       Q. Okay, thank you. And finally SD 4 which is       12       MS. NEWBURY:         13       the five-year period ending June of 2012, and       14       Q. But still we have an issue that an outlier was         14       what is the low outlier?       13       Q. But still we have an issue that an outlier was         15       MS. FLLIOTT:       14       identified and that really doesn't have         16       A. There we have 8-2 and then the high is 7-2.       17       model somehow, because of, it seems to me it's         18       Q. Okay. So, comparing the two ten year period       16       because you've decided on a pre-determined         19       oth at 2003 HI which was allow outlier is no       10       because you've decided on a pre-determined         20       then and two low.       21       longer considered a low outlier in a very       24       Q. And you might run into the same problems if         21       similar ten year period of time with a simple       25       you look at the data, not just the change         24       14       between periods of time, but if you arbitrarily decide I'm       3         3       MS. ELLIOTT:       24       Detween periods of time, but if you look at the data itself, if you arbitrarily decide I'm         3       MS. ELLIOTT:       3       going to take two high and take two low, you		11 MS. NEWBURY:	11	l	A.	Yes.
13       the five-year period ending June of 2012, and what is the low outlier?       13       Q. But still we have an issue that an outlier was identified and that really doesn't have anything to do with the ease of somebody understanding what's happening, it's that the rould somehow, because of, it seems to me it's because you've decided on a pre-determined por times, so that's SD1 and SD 3, it's noted that 2003 H1 which was a low outlier it is no longer considered to be a low outlier in a very similar ten year period of time with a simple       13       Q. But still we have an issue that an outlier was identified and that really doesn't have anything to do with the ease of somebody understanding what's happening, it's that the model somehow, because of, it seems to me it's because you've decided on a pre-determined page ronsidered a low outlier in a very similar ten year period of time with a simple         20       that was considered a low outlier in a very similar ten year period of time with a simple       21       MS. NEWBURY:         21       A. Sure. The approach that we were trying to use there and 1 stated earlier today that we did this percentage change approach to the rexclusions just in our two reports for June 8       1       between periods of time, but if you look at that is an outlier for a slightly different ten- that is an outlier for a slightly different ten- that is an outlier for a slightly different ten- that and to follow and it's being pointed out that you're getting a better fit with the the ten years of data, we will run the the ten years of data, we will run the the ten years of data, we will run the that you're getting a better fit with the that you're getting a better fit with the that you're getting a better fit with the that you're getting a better fit with the the ten years of data, we will run the		12 O. Okay, thank you. And finally SD 4 which is	12	2 M	S. NI	EWBURY:
14what is the low outlier?14identified and that really doesn't have15MS. ELLIOTT:15anything to do with the ease of somebody16A. There we have 8-2 and then the high is 7-2.16understanding what's happening, it's that the17MS. NEWBURY:17model somehow, because of, it seems to me it's18Q. Okay. So, comparing the two ten year period19basis, I'm going to take two high and exclude20that 2003 H1 which was a low outlier is no10basis, I'm going to take two high and exclude21longer considered to be a low outlier in a very22A. That's correct.23SD 3, 2012. Can you explain why something24Q. And you might run into the same problems if24that was considered a low outlier in a very25you look at the data, not just the change25shift back six months is now no longer a low2Q. And you might run into the same problems if26shift back six months is now no longer a low2the data itself, if you abitrarily decide I'm3MS. ELLIOTT:3going to take two high and take two low, you4A. Sure. The approach that we were trying to use5situations, I would suggest, where something6this percentage change approach to the5situations, I would suggest, where something6that is an outlier for a slightly different ten-9year period of time. Is there an explanation10exclude those related data points. It's11MS. ELLIOTT:11difficult to fo		the five-year period ending June of 2012, and	13	3	0.	But still we have an issue that an outlier was
15 MS. ELLIOTT:       15 ms. ELLIOTT:       anything to do with the case of somebody         16 A. There we have 8-2 and then the high is 7-2.       anything to do with the case of somebody         17 MS. NEWBURY:       is comparing the two ten year period       is comparing the two ten year period         18 Q. Okay. So, comparing the two ten year period       is comparing the two ten year period       is comparing the two ten year period         19 of times, so that's SDI and SD 3, it's noted       is comparing the two ten year period       is comparing the two ten year period         20 that 2003 H1 which was a low outlier in a very       is MS. ELLIOTT:       2       A. That's correct.         23 SD 3, 2012 Can you explain why something       2       A. That's correct.       2         24 that was considered a low outlier in a very       2       A. That's correct.       2         25 similar ten year period of time with a simple       2       A. That's correct.       2         26 outlier?       anything to do with the same problems if       you look at the data, not just the change       16         1 outlier?       ashift back six months is now no longer a low       2       A. May ou might run into the same problems if         2 outlier?       ashift back is in our two reports for June       3       situations, I would suggest, where something         3 there and I stated earlier today that we did		14 what is the low outlier?	14	1	Č.	identified and that really doesn't have
16       A. There we have 8-2 and then the high is 7-2.       16         17       MS. NEWBURY:       10         18       Q. Okay. So, comparing the two ten year period       17         19       of times, so that's SD1 and SD 3, it's noted       18         20       that 2003 H1 which was a low outlier is no       18         21       longer considered to be a low outlier when you       21         21       longer considered a low outlier in a very       23         23       SD 3, 2012. Can you explain why something       24         24       that was considered a low outlier in a very       25         25       similar ten year period of time with a simple       24         26       Valoy u might run into the same problems if         27       outlier?       23         3       MS. ELLIOTT:       3         3       going to take two high and take two low, you         4       A. Sure. The approach that we were trying to use       5         5       here and 1 stated earlier today that we did       5         6       this percentage change approach to the       6         7       exclusions just in our two reports for June       8         8       2012 and December 2012, we were trying to use       9		15 MS ELLIOTT:	14	5		anything to do with the ease of somebody
17       MS.NEWBURY:       17       model somehow, because of, is ease of, is eased, is ease of, is eased, ease of, is ease of,		16 A There we have 8-2 and then the high is 7-2	16	ń		understanding what's happening it's that the
18       Q. Okay. So, comparing the two ten year period of times, so that's SD1 and SD 3, i's noted       18       because you've decided on a pre-determined         19       basis, I'm going to take two high and exclude         20       that which was a low outlier is no       21         21       longer considered to be a low outlier when you       21         22       look the ten year period in regression of the       23         23       SD 3, 2012. Can you explain why something       24         24       that was considered a low outlier in a very       24         25       similar ten year period of time with a simple       25         26       Page 162         7       substit back six months is now no longer a low       2         2       A. Sure. The approach that we were trying to use       4         3       here and 1 stated earlier today that we did       5         6       this percentage changes approach to the       6         7       exclusions just in our two reports for June       8         8       2012 and December 2012, we were trying to see       9         9       what were the larger percentage changes and       10         10       exclude those related data points. It's       11         11       here, rightly so, that it's difficult		17 MS. NEWBURY:	13	7		model somehow, because of, it seems to me it's
10       of times, so that's SD1 and SD 3, it's noted       11         10       of times, so that's SD1 and SD 3, it's noted       12         11       longer considered to be a low outlier when you       12         12       look the ten year period in regression of the       23         13       SD 3, 2012. Can you explain why something       24       A. That's correct.         12       shift back six months is now no longer a low       24       Q. And you might run into the same problems if         15       shift back six months is now no longer a low       25       you look at the data, not just the change         16       the year. The approach that we were trying to use       5       here and I stated earlier today that we did       5         16       this percentage change approach to the       2       the data isself, if you arbitrarily decide I'm         10       exclusions just in our two reports for June       8       2012 and December 2012, we were trying to see         11       difficult to follow and it's being pointed out       11       MS.ELLIOTT:         12       here, rightly so, that it's difficult to make       11       MS.ELLIOTT:         12       here, rightly so, that it's difficult to make       14       regression model without any exclusions and we find         13       up excluding different models,		18 0 Okay So comparing the two ten year period	1 18	2		because you've decided on a pre-determined
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19presented today, if in fact, we have chose to19points and the extreme low points, we get a19look the dollar values, exclude those, on a19points and the extreme low points, we get a20look the dollar values, exclude those, on a20little better fits in the regression model and21basis of here's the large, high dollar one,21that's the reason for doing it. So, you know,22exclude that; here's a low dollar amount,22we acknowledge that our approach of the23exclude that over the period that we're23percentage, we thought that might be, you24looking at, we, in fact, for this particular24know, better, but in fact, in hindsight, it's25circumstance, get a bigger negative trend than25confusing and convoluted and so. we've stopped		18 and everyone can follow it. And as we also	18	3		data. So, when we take out those extreme high
<ul> <li>look the dollar values, exclude those, on a</li> <li>look the dollar values, exclude those, on a</li> <li>basis of here's the large, high dollar one,</li> <li>exclude that; here's a low dollar amount,</li> <li>exclude that over the period that we're</li> <li>looking at, we, in fact, for this particular</li> <li>circumstance, get a bigger negative trend than</li> <li>points and the infinite low points, we get a</li> <li>little better fits in the regression model and</li> <li>that's the reason for doing it. So, you know,</li> <li>we acknowledge that our approach of the</li> <li>percentage, we thought that might be, you</li> <li>know, better, but in fact, in hindsight, it's</li> <li>confusing and convoluted and so, we've stopped</li> </ul>		19 presented today, if in fact, we have chose to	10	)		points and the extreme low points, we get a
21basis of here's the large, high dollar one,21that's the reason for doing it. So, you know,22exclude that; here's a low dollar amount,22we acknowledge that our approach of the23exclude that over the period that we're23percentage, we thought that might be, you24looking at, we, in fact, for this particular24know, better, but in fact, in hindsight, it's25circumstance, get a bigger negative trend than25confusing and convoluted and so. we've stopped		20 look the dollar values, exclude those, on a	20	)		little better fits in the regression model and
<ul> <li>exclude that; here's a low dollar amount,</li> <li>exclude that over the period that we're</li> <li>looking at, we, in fact, for this particular</li> <li>circumstance, get a bigger negative trend than</li> </ul>		21 basis of here's the large, high dollar one.	2.1	L		that's the reason for doing it. So. you know.
<ul> <li>exclude that over the period that we're</li> <li>looking at, we, in fact, for this particular</li> <li>circumstance, get a bigger negative trend than</li> <li>confusing and convoluted and so. we've stopped</li> </ul>		22 exclude that: here's a low dollar amount	20	2		we acknowledge that our approach of the
24looking at, we, in fact, for this particular24know, better, but in fact, in hindsight, it's25circumstance, get a bigger negative trend than25confusing and convoluted and so. we've stopped		exclude that over the period that we're	23	3		percentage, we thought that might be. vou
circumstance, get a bigger negative trend than 25 confusing and convoluted and so. we've stopped		24 looking at, we, in fact. for this particular	24	1		know, better, but in fact, in hindsight, it's
		25 circumstance, get a bigger negative trend than	n 25	5		confusing and convoluted and so, we've stopped

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Γ	Page	165		Page 167
	1 that. On the other hand, we do acknowledge.			that you would not have this same situation
	2 if we had prepared on the dollar basis, the	2	2	where a low outlier for a ten-year period of
	3 lost trend rate would have been a larger		3	time disappears in the subsequent ten-year
	4 negative than we calculated. So, it's an		L	period of time because that's arising from the
	5 approach that we take to try to smooth out the	4	, S	approach of looking at the changes of the
	6 results from review to review. That's what we		ń	value?
	7 do		, MS 1	FLI IOTT.
	8 MS NEWBURY	5		Well when you look at the ten-year trend
	9 O And again my focus here is not on the change		)	excluding two high and two low and a dollar
	in values. It's more on the fact that you've	10	)	value and we looked at it ending December 2012
	11 got an outlier that suddenly loses its	11		and then if we shift everything up to look at
	12 characteristic Is that becauseare you	12	)	ten years ending un June 2012 it's possible
	13 saving that an outlier for the first ten-year	13	2	that there could be different high and low
	14 period lost its characteristic in the second	14	, L	data points just due to what the data is
	ten-year period because of your approach of	14		that's possible
	16 using the change of values?	16	, . MS .	NEWRIRY.
	17 MS FLLIOTT.	17	/ NIS.	If that there were the case though so if
	$18  \Delta  \text{What I'm trying to express here is you know}$	15	e v	somethingLunderstand it now you've got
	19 I take I think Mr Doherty's comments	10	, )	another six month period of time, you've lost
	finding it confusing and showing that there's	20	, )	the data point on the more recent end and
	a shift in what's excluded when we look at the	20 21	,	you've gained a data point on the beginning of
	two It's a valid comment I acknowledge it		- )	that period of time, but you know if you
	and that's why we changed in our subsequen	t $\begin{vmatrix} 22\\ 23 \end{vmatrix}$	2	weresomething that you decided was an
	reports We tried it it was a little	2	,	outlier was something that was so unusual from
	convoluted and confusing and we stopped usi	$n\sigma$ 25	r C	the rest of the data L could see that maybe
É		1.00	, 	
	Page	166		Page 168
	1 it. We learned. We don't do everything the			you ve got a new even more unusual higher
	2 same all the time. We try to look at what	2	2	point or lower point from the data, but would
	3 we're going; how to do it better. We made an	. 13	3	tillwould that point, that low point 2003 H1
	4 attempt and it didn't work.	2	ŀ	still not have the characteristic of looking
	5 MS. NEWBURY:	5	5	like it's out of keeping with everything else?
	6 Q. But that's not my question. My question is	6	5 MS.	ELLIOTT:
	7 did that approach that you've not abandoned		A	. If your question is could we exclude a point
	8 and I understand the reasons for that and I	8	8	looking on a percentage basis and exclude that
	9 accept that, but the approach of focusing on	9	)	same point looking on a dollar basis, that's
	10 the change of values as opposed to the actual	10	)	possible, sure.
1	11 data values themselves, but looking at the		MS.	NEWBURY:
	12 change, how much did it go up; how much did	1 1t   12	e Q	. Okay. Now, you still have the SD 1 and SD 4
	13 go down. Did that actually cause this	13	5	on your desk there, I believe, Ms. Elliott.
	14 situation that you have, an outlier identifier,	14	MS.	ELLIOTT:
	15 the low outlier of 2003 H1 in December 2012	no 15	A	Yes.
Р	longer being an outlier.	16	MS.	NEWBURY:
	17 MS. ELLIOTT:	17	Q	So, I'm going to request that you circle all
	A. Yean, absolutely. So, that's the point, that	18	\$	of the outliers on the graphs that Mr. Donerty
	19 it's a bit confusing, hard to follow what's	19	)	has on the second page for each of those
	20 excluded and I acknowledge it as something v	ve $ ^{20}$	)	exhibits. So, those outliers that you just
2	21 tried. It's nard to follow and yean, so.			for each of the ter many main in the late
	22 MS. NEWBURY:		:	for each of the ten year periods and the low
	25 Q. SO, you le saying that if you had not used	23	)	and high for each of the five year periods,
	data points, the measure or direct the shore of the	24	+	i in going to ask that you circle where those
12	23 uata points themserves and not the changes.	125	,	are on the graphs.

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	Page 169		Page 171
1 MS. GLYNN:	1	document	s. These are her outliers, but she
2 0. We won't be able to see that on the s	creen. 2	hasn't pr	ovided a graph showing where the
3 MS_NEWBURY:	3	outliers a	e. So, we're asking that she now
4 0 No but what I could do is get her to	do the 4	identify th	ose outliers on each of the four
5 circles on this graph and then I'm or	ang to 5	graphs fo	r our benefit so that we can
6 request that that be entered as exhibit	s And 6	visualize	what she's talking about
7 then we could have them downlo	aded and 7		what she is tarking about.
2 available on the screen It's just goin	ng to	$\int \int dr e y \partial r e y \partial$	ble to do that Ms Elliott?
beln to identify for us where these dit	fferent 0	Q. AIC YOU A	ofe to do that, wis. Effort:
<sup>3</sup> help to identify for us where these un		MS. ELLIOTT.	I will try (DEOLIEST)
11 MS CL VNN	10	A. I UIIIIK SO	, I will u.y. (REQUEST)
11  MS. OLTINN.	11	o And that'	s the actual in fitted model lost
12 Q. Fou want to take that document nov		Q. Allu ulat	s the actual m-inted model lost
15 tildt :	13	CUSI.	
14 MS. NEWBURT:	14	MS. GLINN:	est graph there
	13	Q. SO, the In	st graph mere.
10 MS. GLYNN:	10	$\mathbf{MS.} \mathbf{NEWBURT}:$	
17 Q. To use for questioning now.	1/	Q. Tes.	
18 MS. NEWBURY:	18	MS. GLYNN:	
19 Q. Tes.	19	Q. Okay.	
20 MS. GLYNN:	20 1 here 15	MS. NEWBURY:	oth graphs because they are slightly
21 Q. Okay, I in not sure1 mean, we only	nave 15 21	Q. Actually	both graphs because they are slightly
22 minutes left in the day.	22	different.	Just one is line.
23 MS. NEWBURY:	23	VICE CHAIR WH	ALEN:
Q. It's just to demonstrate. Mis. Emou, 1	inean 24	Q. MS. Giyi	an, are you clear on what's being
25 we could do thisit shouldn't take hi		questione	u:
	Page 170		Page 172
1 -I mean she's gone through these grap	$hs, so t \qquad 1$	MS. GLYNN:	
2 shouldn't take more than ten minuter	s to do 2	Q. I think so	I'm going to look to my witness
3 that. I mean, this is the exercise tha	tI 3	and make	sure she's -
4 want her to go through. She's given e	vidence 4	MS. ELLIOTT:	
5 that outliers are easily noticeable to	lay 5	A. I think so	, yes.
6 people. I just want to have Ms. El	iott 6	STAMP, Q.C.	
7 identify those on the graphs.	7	Q. Just for cl	arification then, Ms. Elliott -
8 MS. ELLIOTT:	8 ]	MS. GLYNN:	
9 A. I don't have a pen, sorry.	9	Q. How abou	it if I tell you what my understanding
10 VICE CHAIR WHALEN:	10	is and you	a can tell me. So, for each of these
11 Q. Would it make sense for her to take th	is away 11	exhibits, s	SD 1 through 4, on the actual in-
12 and do this evening, overnight, rathe	r than 12	fitted mod	lel, lost cost graph, you would like
have her do it on the stand right now.	13	Ms. Elliot	t to circle the data points that she
14 MS. NEWBURY:	14	has exclue	ded.
15 Q. Or we can take a break.	15	STAMP, Q.C.:	
16 MR. JOHNSON:	16	Q. The four a	and the two with each of these.
17 Q. I'd feel more comfortable if she's no	t doing	MS. GLYNN:	
18 it on the fly.	18	Q. I think we	e have it.
19 VICE CHAIR WHALEN:	19 ]	MS. NEWBURY:	
20 Q. Absolutely.	20	Q. On page 4	of the report at CA OW 001, under
21 MS. GLYNN:	21	the heading	ng, the data points we considered,
22 Q. So, an undertaking from Ms. Elliott to	provide 22	you state	d in the first paragraph, "we
a visual aid of the circled outliers.	23	recognize	that the indicated trends produced
24 MS. NEWBURY:	24	by the re	gression model, particularly those
25 0. Each and every outlier on those	four 25	over a fiv	e vear period can ben sensitive to

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1	one or two of the data points". Now, looking	g	1	MS. E	LLIOTT:
2	that the ten year regressions that you model,		2	A.	Well, I think in this case, wondering if a
3	you have automatically excluded two of th	e	3		sample ten data points would have two
4	highest and the two of the lowest data points		4		outliers. I think what you really want to
5	which would be a total of four data points		5		think about in presenting trend rates that you
6	being excluded. Why would you, in light of	of	6		think are absolutely right and we're not
7	your earlier comment that a regression mod	el	7		taking that position that's why we have a
8	can be sensitive to one or two of the data		8		variety of looks at the data, how credible is
9	points, why would you have excluded four d	lata	9		this data that we're looking at? And the data
10	points?		10		is not very credible, this commercial data
11	MS. ELLIOTT:		11		that we're reviewing. So, I don't think the
12	A. That was the approach that we chose to use it	in	12		issue is that we have ten data points and
13	this circumstance given that we felt that		13		we've looked at, you know, was there a high
14	there was a fair amount of volatility in the		14		point here and a low point and what do we get
15	data and made that choice.		15		when we exclude these extremes and what's the
16	MS. NEWBURY:		16		value? If you want to talk about how good is
17	Q. Okay. So, you comment then that the		17		that, really, the issue is how good is this
18	regression model can be sensitive to one or		18		data for determining a trend rate? And that's
19	two of the data points, that doesn't cause you	u	19		what we're saying, there's considerable
20	concern when you decided to exclude four	of	20		uncertainty in the data. We think that by
21	the data points?		21		excluding the high and the low points it's
22	MS. ELLIOTT:		22		helping to give a more stable measurement of
23	A. No, that doesn't. I think what it tells us is		23		the trend rate.
24	that when you look at a lost trend rate and		24	MS. N	EWBURY:
25	you exclude the data points, and when you	l	25	Q.	If a regression model can be sensitive to one
	Pa	ge 174			Page 176
1	don't exclude the data points, looking at		1		or two data points, would it not also be
2	those differences, that tells you something.		2		sensitive to excluding the data points, one or
3	So, no, I don't have concern.		3		two or up to four?
4	MS. NEWBURY:		4	MS. E	LLIOTT:
5	Q. Now, the process of eliminating the two hig	h	5	А.	Absolutely. I agree fully. And the issue is
6	and two low for the ten year, that actually		6		that if you just exclude one or two data
7	results in the elimination of 20 percent of		7		points and you get a different answer or you
8	your data points.		8		use, you know, five years or six years and you
9	MS. ELLIOTT:		9		get a different answer, yes, that tells you
10	A. We end up with 16 data points.		10		something. It tells you that it's very heard,
11	MS. NEWBURY:		11		it's very challenging to pick the right
12	Q. So, 20 percent -		12		number. It definitely tells you something.
13	MS. ELLIOTT:		13	MS. N	EWBURY:
14	A. Out of 20.		14	Q.	Okay. And are you saying that if you exclude
15	MS. NEWBURY:		15		the data points, that your fit is no better
16	Q. And how many would you have in the five y	ear?	16		than when you include all of the data points?
17	Would you not also reduce your data points	by	17	MS. E	LLIOTT:
18	20 percent?		18	A.	Typically the fit will be better when you
19	MS. ELLIOTT:		19		exclude high points and low points, typically,
20	A. They go from ten to eight.		20		yes.
21	MS. NEWBURY:		21	MS. N	EWBURY:
$ ^{22}_{22}$	Q. So, it's a 20 percent reduction both times.		22	Q.	Okay. And what was it in this case?
$ ^{23}_{23}$	And have you done an analysis to test for the	e	23	MS. E	LLIUII: I don't have that in front of me
$ ^{24}_{22}$	inkennood that a sample of 20 data points		24	A.	I don t nave that in front of me.
25	would contain 20 percent outliers?		25	MS. N	EWBUKI:

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		Page 177			Page 179
1	0.	Okay. If you had done an analysis of ten	1		higher than just for the regular experience
	<b>X</b> ·	vears or five years or fifteen years and found	2		period that's used. This data would not meet
		that you had a better fit would you have	3		the standard that we would or see in other
4		discarded that or would you havewhat would	4		provinces And I'm repeating myself the data
5		you have done with that?	5		is very thin very volatile and not reliable
	MS F		6		in terms of the estimate that is provided
		Well in those cases where we running a	7		So if you're asking me do I think this data
	11.	regression analysis and we have ten years of	8		is fully credible and reliable, that whatever
		data or whatever time period and the fit is	9		trend result nons out of XI model is the
		really good we don't necessarily exclude any	10		right number? The answer is no. It is not
		points unless again we think that that is	11		fully credible absolutely not
12		necessary Here with this commercial data in	12 N	IS N	FWRIRY
12		Newfoundland it is the most challenging data	12 1	0	And in your various models that you've done as
11		that we look at . Of all the reviews for lost	14	Q.	part of your report here or your report to the
15		trend rates it is the most challenging. It	15		Board that filed in CA OW 001 did you
15		is the most limited data And so this is the	16		consider excluding maybe two high and one low
17		approach that we've taken to try to account	17		or excluding two low and one high or looking
1		for this volatility in this limited database	19		at maybe how do the data points look? Do they
10		that we have work with So you will get a	10		look like outliers as it relates to the graph?
		different answer if you exclude one or two	20		Did you try other combinations and
$\begin{vmatrix} 20 \\ 21 \end{vmatrix}$		data points than if you don't And we	20		permutations of exclusion of data points?
$\begin{bmatrix} 2 \\ 2 \\ 2 \end{bmatrix}$		generally find with that exclusion we get a	$\begin{bmatrix} 21\\ 22 \end{bmatrix}$	IS E	
$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$		little better fit. We've taken off these high	22 10	13. Ц. А	Ves I mean we have the data and I can't
$\begin{vmatrix} 2.3 \\ 2.4 \end{vmatrix}$		and lows and smoothed it in a little bit	23	л.	speak to specifically what was antonym when we
25	MS N	FWRIRV.	25		did that but as I said it's a flexible
-	110.1	D. 170	23		
	0	Page 1/8	1		Page 180
	Q.	okay. And whether or hot you did actually get		]	model, we can lest different exclusions quite
$ ^2$		a better fit, in this particular case, you	2	1	readily, but at the same time, we re trying to
		don t know.	3	]	prepare a report, where we prepare a report
	MS. E		4	(	every six months and we re trying to present
5	А.	I don't have that at my finger tips, no I	5	2	something that is reasonably stable from report
6		can t ten you.	6		to report. So that if every time we looked at
17	MS. N	EWBURY:	7	1	it, we did something completely different, I
8	Q.	How did you determine now sufficient the data	8	i	assure you we d get a very different answer
9		is for estimating trends?	9	(	each time. And so what we re trying to do is
10	MS. E		10	]	find some consistencyand it's not always the
	A.	Sorry, could you repeat that, please?	11	1	same, but try to do the same thing generally
12	MS. N	EWBURY:	12	1	from report to report, we calculate the number
13	Q.	How did you determine now sufficient the data	13		that we've calcoted to use and we every that
14		was for estimating trends? I mean, you've	14		that we ve selected to use and we average that
15		commented about the data and exclusion of	15	i	against what we picked the last time, in
16		points, now do you determine what is	16		trying, if you will, almost weight what we did
		sufficient?	17	1	the last time with what we refinding this
18	MS. E	LLIOII: Wall with our different storidards and in	18		Vou brown it's on annoach that we've used
19	А.	well, with our different standards and in	19	1	You know, it's an approach that we've used
20		terms of determining whether the data is	20	ļ	And we try to follow that any reach as that
$ ^{21}$		sufficient for determining lost trends rates	21		And we try to follow that approach so that,
$ ^{22}$		is certainly a point discussion and people	$\begin{vmatrix} 22\\ 22 \end{vmatrix}$		you know, we re not presenting reports where
$ ^{23}_{2}$		have different views. The standard for	23	1	changed vous mind and did it this many diff.
$ ^{24}_{22}$		determining whether data is sufficient for	24	(	changed your mind and did it this way and that
25		creationity, the creationity standard is much	25		way in every which review that we do.

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1	MS. NEWBURY:	C	1 C	ERTIFICATE
2	Q. Okay, sure, but in terms of the exclusion	of	2 I, Judy Moss,	hereby certify that the foregoing is a true
3	outliers, I understand that these are		3 and correct to	anscript in the matter of a Facility
4	anomalies and they're different from the	data.	4 Association A	application re: Taxi and Limousine Automobile
5	I assume that they don't occur on a regu	lar	5 Insurance Rat	tes heard on the 17th day of November, 2014
6	basis, that you regularly have every year	ır,	6 before the Bo	ard of Commissioners of Public Utilities,
7	you're going to have two outliers on the l	nigh	7 120 Torbay R	oad, St. John's, Newfoundland and Labrador
8	side and two outliers on the low side.	_	8 and was trans	cribed by me to the best of my ability by
9	MS. ELLIOTT:		9 means of a so	und apparatus.
10	A. You can always find the two high points	and	10 Dated at St. J	ohn's, Newfoundland and Labrador
11	two low points.		11 this 17th day	of November, A.D., 2014
12	MS. NEWBURY:		12 Judy Moss	
13	Q. But sometimes the high points might act	ually	13 Discoveries U	Unlimited Inc.
14	be just slightly above your typically data	a.		
15	So, it may not actually look like an outlie	er		
16	to a lay person -			
17	MS. ELLIOTT:			
18	A. Sure, and if that that was the case, I think	,		
19	you know, we can go, I guess, to the next	page		
20	might help me explain, in thego down	na		
21	little bit further please. So, here we have	<b>)</b>		
22	the change from year to year, the 29 perc	ent,		
23	you know, we've gone through this befor	e, the		
24	-11so, it's possible that there'd be			
25	something where we didn't see anything	really		
		Page 182		
1	high or low, but this data is very limited a	and		
2	volatile, the commercial Newfoundland	data.		
3	So, if you're telling that it'sis it likely			
4	that there won't be any high or low a	nd		
5	everything will be consistent? Well, I gu	ess		
6	it's possible, but that's not what we're			
7	seeing.			
8	MS. NEWBURY:			
9	Q. But every high is not an outlier and every	low		
10	is not an outlier?			
11	MS. ELLIOTT:			
12	A. As I expressed, we area, our method is to	take		
13	the two high and the two low, that's w	nat		
14	we're doing, yes.			
15	MS. NEWBURY:			
16	Q. Okay. Thank you, perhaps we could co	ntinue		
17	this tomorrow morning with Ms. Elliott.			
18	CHAIRMAN:			
19	Q. So, 9:30 tomorrow morning?			
20	MS. GLYNN:			
21	Q. We usually start at 9:00 on the second d	ay,		
22	but it's up to your discretion.			
23	CHAIRMAN:			
24	Q. Okay, 9:00.			
25	Upon conclusion at 1:29 p.m.			

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	<b>0.4</b> [2] 24:18 30:21		140:12	<b>8-2</b> [3] 160:19 161:3.16
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<b>\$7 500</b> (21,20,08,14)	<b>001</b> [3] 143:2 172:20	<b>7</b> (5) 14.25 08.6 125.22	<b>21.5</b> [2] 6:12.17	
\$ <b>2,300</b> [2] 54:20 98:14	179:15	136:24 160:17	<b>24</b> [1] 59:20	-9-
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