

NORTH CAROLINA DEPARTMENT OF INSURANCE  
RALEIGH, NORTH CAROLINA

IN THE MATTER OF THE FILING )  
DATED JANUARY 3, 2024, BY THE )  
NORTH CAROLINA RATE BUREAU )  
FOR REVISED HOMEOWNERS )  
INSURANCE RATES )  
BEFORE THE )  
COMMISSIONER OF )  
INSURANCE )  
DOCKET NO. 2157 )

**COPY**

BEFORE: AMY FUNDERBURK, HEARING OFFICER

TRANSCRIPT  
OF  
HEARING

VOLUME II - P.M. SESSION

Raleigh, North Carolina  
Tuesday, October 8, 2024  
1:32 p.m.

A P P E A R A N C E S

On behalf of the North Carolina Rate Bureau:

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Hearing in the matter of the filing dated January 3, 2024, by the North Carolina Rate Bureau for revised homeowners' insurance rates, at North Carolina Department of Insurance, 3200 Beechleaf Court, Raleigh, North Carolina, on the 8th day of October, 2024, at 1:32 p.m., before Wendy Sawyer, Court Reporter and Notary Public.

I N D E X O F E X A M I N A T I O N S

THE WITNESS: PAUL ANDERSON	EXAMINATION
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I N D E X O F E X H I B I T S

(No exhibits offered.)

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P R O C E E D I N G S

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HEARING OFFICER FUNDERBURK: Good afternoon. We're back on the record. It is 1:32 p.m., Tuesday afternoon, October 8th. I'll remind the witness that you are still under oath.

Mr. Friedman, are you prepared to continue?

MR. FRIEDMAN: I am, Your Honor.

HEARING OFFICER FUNDERBURK: Please do so.

MR. FRIEDMAN: Can everybody hear me now?

CONTINUED CROSS EXAMINATION

BY MR. FRIEDMAN:

Q. All right. Mr. Anderson, if you could turn to -- those are the ASOPs. Excuse me. When you were retained and began work on this filing, did you see some version of the work of Dr. Zanjani, ISO, and/or Dr. -- or Ms. Mao before you signed your opinion?

A. Yes.

Q. Okay. About how long before you worked on your opinion did you see their findings?

A. The rate review process, I may be getting

1 the exact dates a little bit off, but I believe the  
2 rate review process began in April or May of 2023. And  
3 one of the first components would be reviewing some  
4 data from ISO, which is used then as an input for Aon's  
5 work. So the work that Ms. Mao oversees. There's  
6 additional review of -- hold on, I'm going to answer  
7 your question.

8 There's additional review of work completed by  
9 ISO, review of work completed by Aon, and then towards  
10 the end of the process, there's review of the work  
11 completed by Dr. Zanjani. That would have occurred  
12 really throughout the summer. And if memory serves me  
13 right, I completed my testimony, roughly, in October of  
14 2023.

15 Q. Okay. And sir, did you actually begin on  
16 it at the same time that ISO began working on the  
17 filing or sometime after that?

18 A. I'll distinguish between the rate review  
19 process and the rate filing. The rate filing is the  
20 culmination of the rate review process. So ISO would  
21 have been working on, actually, the rate review process  
22 even before they brought information to the Rate  
23 Bureau. I believe Ms. Biliouris talked yesterday about  
24 the aggregation of the data and things like that.

25 So they would have had work going on for several

1 months. They would have done a majority of the  
2 analysis in the work during the rate review process.  
3 And then at the -- again, towards the end, they would  
4 be preparing filing exhibits in preparation of the  
5 filing.

6 And at that point, I would begin drafting my --  
7 or I did begin drafting my testimony and kind of wrap  
8 up the draft really as the final filing exhibits are  
9 also prepared so that I could kind of check my  
10 testimony against the final filing exhibits. Does that  
11 make sense?

12 Q. It does --

13 A. Okay.

14 Q. -- but I guess I'm still unclear on a  
15 couple of things. One, when ISO first -- here's the  
16 simplest, easy way to ask it. Yesterday, you may have  
17 heard Ms. Biliouris testify about that it took  
18 approximately 12 months to finish the filing. Do you  
19 recall that 12 to 13, I think was her estimate?

20 A. Yes, I remember that.

21 Q. At what point in those 13 months did you  
22 first come on and begin working on your part of the  
23 filing?

24 A. Are you asking when I began interacting  
25 with the Bureau and reviewing components of the filing

1 or actually working on my testimony?

2 Q. Working -- interacting with either the  
3 Bureau or any of the other experts who were working on  
4 it, as well, including ISO.

5 A. That would have been about six months into  
6 the process. So if the data aggregation began in  
7 roughly November of 2022, my involvement, I believe,  
8 would have kind of ramped up or began in roughly May of  
9 2023.

10 Q. And how early on, whether they were the  
11 final results or preliminary results of their work,  
12 how -- how early on did you see some results from Dr.  
13 Zanjani or Dr. Mao -- or Ms. Mao, excuse me?

14 A. I'm estimating a little bit on the  
15 specific time frames, but the work completed by Ms. Mao  
16 would have been roughly in July, maybe early August,  
17 and that would also be about the time that I would have  
18 reviewed and seen Dr. Zanjani's work. It was probably  
19 roughly in late July or in August.

20 Q. Okay. And between that initial work you  
21 reviewed and the ultimate written opinion by Ms. Mao  
22 for her report, had there been any changes in her  
23 analysis, in her data?

24 A. Can you repeat that just to make sure that  
25 I'm answering?

1 Q. Sure. Did the initial data analysis by  
2 Ms. Mao change at any time after you first saw it?

3 A. Not that I recall.

4 Q. Okay. What about Dr. Zanjani?

5 A. I don't believe so. Not that I recall.  
6 I'm not remembering anything.

7 Q. So I'm going to be going through your  
8 testimony largely now. So that is in Book 1 at Exhibit  
9 RB-19. During the time you've worked at Milliman, did  
10 you -- was Dr. Appel also employed by Milliman at any  
11 time?

12 A. Yes, he was.

13 Q. Okay. Did you work with him on North  
14 Carolina Rate Bureau filings?

15 A. Yes. I did.

16 Q. With regard to what aspects of the  
17 filings?

18 A. The main -- my main role was to assist  
19 with the compensation for assessment risk.

20 Q. Okay. Did you assist him with the cost --  
21 with the profits?

22 A. No.

23 Q. Were you familiar with what he did with  
24 the profits?

25 A. At a high level.



1 Q. Did you work with him on the net? The  
2 net -- by net, I'm meaning to refer to the net cost of  
3 reinsurance.

4 A. Again, I was familiar with that work at a  
5 high level.

6 Q. So when you worked with him, did you work  
7 with him on the contingency, as well, or was that your  
8 work from the get-go?

9 A. I did not work with him on the  
10 contingency, and that's a new component of the filing  
11 just in the last two or three years. So an exhibit  
12 resembling RB-21 would not have been included in any of  
13 the filings that David -- that Dr. Appel would have  
14 been involved in.

15 Q. When you said a new aspect of the filings,  
16 does that mean it's a new thing that Milliman, in  
17 particular, is working on?

18 A. Yes. The new thing is the exhibit that's  
19 documented in RB-21, which was an exhibit that Milliman  
20 put together that we developed prior to two or three  
21 years ago. There was not any quantitative support to  
22 support the contingency provision.

23 Q. But you have worked on the contingency  
24 provision before developing RB-21 along with Dr. Appel?

25 A. Again, I was familiar with it at a high

1 level, but I did not work on anything specific related  
2 to the contingency provision.

3 Q. Okay. Do you know whether Dr. Appel's  
4 contingency provision was rejected in the 2014  
5 homeowners' order?

6 MR. BEVERLY: Objection. Can you tell  
7 me what you mean by rejected?

8 BY MR. FRIEDMAN:

9 Q. Whether the Commissioner disapproved of it  
10 and gave 0 percent.

11 A. I would clarify that it wasn't Dr. Appel's  
12 contingency provision. It was the Rate Bureau's. And  
13 I'm not certain that Dr. Appel provided support for  
14 that or whose testimony would have --

15 Q. Okay.

16 A. -- would have supported that provision in  
17 the filing.

18 Q. Are you aware of whether Milliman's work,  
19 whomever was testifying for Milliman on the -- on the  
20 contingency was disapproved of in any part?

21 A. I don't recall who worked on the  
22 contingency provision. My recollection is that Dr.  
23 Appel's focus was on profits and the net cost of  
24 reinsurance.

25 Q. Okay. But do you know whether Milliman's

1 analysis of the contingency provision was rejected?

2 And it was Milliman's analysis. Am I correct?

3 A. No. My understanding is, again, prior to  
4 two or three years ago that there was not a standalone  
5 analysis to support a contingency provision, that there  
6 was not quantitative support or an exhibit included in  
7 the filing to support a 1 percent or whatever the  
8 selected contingency provision would be in those  
9 previous filings.

10 Q. Are you -- do you know whether there was a  
11 1 percent contingency provision calculated by whomever  
12 in the 2014 homeowners' filing?

13 A. I don't know for certain. I would  
14 anticipate that there probably was. Many times a  
15 contingency provision is selected judgmentally. If you  
16 recall my earlier comments about the reasons for using  
17 a contingency provision, those are very difficult to  
18 quantify, if not impossible, what future judicial  
19 decisions, what the impact would be.

20 So it's common for actuaries to just  
21 judgmentally select a relatively small provision for  
22 contingencies. 1 percent is very common. I have seen  
23 contingencies up to 2, 3, 4, 5 percent on occasion.

24 Q. Would you say that 1 percent is the norm?

25 A. Yes.

1           Q.     So with regard to on page 4 of your  
2     testimony, at the bottom paragraph, the bottom answer,  
3     you state that the 2024 homeowners' filing is generally  
4     consistent with prior filings, but there is one  
5     component of this filing that relies on a different  
6     approach as compared to the 2020 homeowners' filing.  
7     Do you see that?

8           A.     Yes.

9           Q.     And you then state on page 5 that that  
10    different component has to do with the calculation of  
11    the CAR?

12          A.     That's correct.

13          Q.     Okay. You state that in 2020, Milliman  
14    did not have available data necessary to complete the  
15    CAR. Is that a fair paraphrase of your testimony?

16          A.     Yes. That's -- that's reasonable.

17          Q.     Okay. What data was that?

18          A.     It was event level detail of modeled  
19    hurricane losses. That type of data comes directly  
20    from one of the hurricane models. Again, we're using  
21    AIR or RMS, and that information is really only  
22    available to entities that license the models.

23                 So Milliman was relying on a third party who had  
24    access to that information and essentially the  
25    licensing contracts of the modelers changed that

1 restricted that information to be shared with Milliman  
2 as an independent third party.

3 However, Aon licenses those -- yeah. Aon  
4 licenses those models, which is why they were able to  
5 then complete the analysis in 2024.

6 Q. All right. And so let me understand that.  
7 So Milliman doesn't license its own models?

8 A. Correct.

9 Q. And it had been relying on a third party  
10 to provide -- it had been relying on a third party to  
11 provide it with the losses. Was it also relying on  
12 that third party's run of the model to provide it with  
13 detail to calculate the net?

14 A. The net -- I assume you mean net cost of  
15 reinsurance?

16 Q. Net cost of reinsurance. I'm sorry.

17 A. For who?

18 Q. If I understand -- I may be mis-recalling  
19 your testimony a bit ago, but that Milliman worked on  
20 the net cost of reinsurance in, let's say, 2014.

21 A. That's correct. That's my --

22 Q. Did it continue doing the net cost of  
23 reinsurance up until 2020?

24 A. The work supporting the net cost of  
25 reinsurance transition from Milliman to Aon, I think it

1 was a little bit before 2020.

2 Q. Okay. So in any case, then, at least for  
3 the CAR, the third party ceased having access and so  
4 Aon licensed its modeling software itself. And so it  
5 took over the work. Is that fair?

6 A. The third party had access to the data,  
7 but they could not share it with Milliman because we  
8 were -- we were then the third party to the modelers.  
9 You know, the modelers had the relationship with --  
10 with the third party. We were not allowed to have  
11 access to that data.

12 So in the 2020 filing, the most recent data we  
13 had was one year prior to that. So we were able to  
14 make an adjustment, just kind of roll the data forward  
15 or project it forward a year, and that's what we used  
16 to support the 2020 filing.

17 But by the time we began work on subsequent  
18 filings, not just for homeowners but other residential  
19 property filings, that the data that Milliman had  
20 access to was -- it was too old, it was too stale that  
21 the projection method wouldn't be appropriate.

22 Q. On page 5 of your testimony, you -- I  
23 believe you say that you -- Aon replicated the  
24 methodology used for the CAR by Milliman in the 2018  
25 homeowners' filing. That is -- do you see that where

1 you state that?

2 A. Yes.

3 Q. Okay. When, in the past, Milliman  
4 calculated the CAR, did you use any consideration of  
5 the actual surplus of the Beach Plan or the FAIR Plan?

6 A. Yes. I did. Or we did.

7 Q. Do you know whether Aon continued to do  
8 that after they began modeling the CAR?

9 A. Yes. They do.

10 Q. Okay. And do they -- did you all use the  
11 actual assessment history?

12 A. Can you clarify who you all is?

13 Q. I'm sorry. Did Milliman use the actual  
14 assessment history of the FAIR Plan and the Beach Plan  
15 in calculating the CAR?

16 A. No. That wasn't really applicable to this  
17 methodology.

18 Q. Why is that?

19 A. The -- the -- the purpose of the  
20 methodology here is to simulate. It's to project the  
21 likelihood of an assessment, but it also -- we  
22 identify -- this could get technical here. We -- we  
23 apply the Beach and FAIR Plans reinsurance contracts to  
24 the modeled losses, we reflect the surplus of the Beach  
25 and FAIR Plan to identify in which events or in which

1 scenarios would the Beach or FAIR Plan essentially  
2 exhaust their resources and need to issue assessments.

3 We actually take those that the losses that  
4 result in assessments, and we put them into layers that  
5 reflect the likelihood of them occurring. You may hear  
6 about, like, a 1 in 100 hurricane event or a 1 in 20  
7 event.

8 There's different severities or different  
9 probabilities of events that could trigger these  
10 assessments. And as you look at the exhibits  
11 supporting the compensation for assessment risk,  
12 depending on the -- the layer of where those losses  
13 fall, so the lower the probability, the more severe the  
14 event, there is a -- the multiplier that gets -- that  
15 gets applied in that methodology increases as you as  
16 the event becomes more severe or as the layers become  
17 less likely. So I mean, lower probability.

18 That complexity of an analysis, you can't glean  
19 that from historical assessment information. You need  
20 the thousands of iterations of modeled hurricane data  
21 to be able to apply the reinsurance contracts, to be  
22 able to put the losses into layers, and then apply  
23 these adjustment factors.

24 Q. Okay. So different subject, though also  
25 still on page 5, bottom of the first paragraph. Do I



1 understand your testimony there to be, well, first of  
2 all, that there are insurance companies now that have  
3 provisions in their reinsurance treaties that would  
4 cover Beach and FAIR Plan assessments?

5 A. I'm sorry. Are you pulling that out of my  
6 testimony?

7 Q. Well, I'm looking at the last sentence of  
8 the first paragraph. To reflect that some insurance  
9 companies no longer retain exposure to assessments from  
10 the Beach and FAIR Plan pursuant to the companies'  
11 respective reinsurance agreements, Aon then modified  
12 the calculated compensation for assessment risk  
13 provision by multiplying it by 50 percent.

14 So is that -- so that's saying that just that,  
15 that some insurance companies are now -- have  
16 reinsurance against assessments?

17 A. Yes. That was information that the Rate  
18 Bureau and myself learned from Aon. As reinsurance  
19 brokers, they see reinsurance contracts. And we  
20 learned, again, within the last few years that many  
21 reinsurance contracts cover assessments from entities  
22 like the Beach and FAIR Plan.

23 Q. And is my understanding by multiplying it  
24 by 50 percent, that's an assumption that approximately  
25 half of the North Carolina homeowners' carriers do have

1 coverage under their reinsurance for assessments?

2 A. Yes. I would just clarify that instead of  
3 50 percent of the companies, it would be 50 percent of  
4 the exposures in the state.

5 Q. Okay.

6 A. That may be represented by that --

7 Q. Do know where that -- I mean, how you came  
8 to the 50 percent or how, I guess, more particularly,  
9 Aon did?

10 A. That was -- that was judgment. That type  
11 of information is difficult to obtain. Aon has access  
12 to reinsurance contracts but certainly not for the  
13 entire industry. So that was an informed judgment  
14 decision or selection.

15 Q. Did you ever see any data from Aon about  
16 actual reinsurance costs in North Carolina?

17 A. Whose costs?

18 Q. Costs borne by North Carolina homeowners'  
19 carriers that are members of the Bureau.

20 A. I have not seen that information or that  
21 data.

22 Q. Have you calculated reinsurance costs for  
23 other clients?

24 A. Do you mean a net cost of reinsurance?

25 Q. The net cost? Yes. I'll refer to it as

1 net -- the net.

2 A. Okay. Yes. I have. I have calculated  
3 that.

4 Q. Okay.

5 A. In order to do that, again, the  
6 appropriate inputs or information need to be provided  
7 to me. I don't have access to the models like Ms. Mao  
8 would have at Aon.

9 So I would need to -- we need to have the right  
10 information and the right data available to me. That  
11 may include the total reinsurance premiums and the  
12 expected hurricane losses that coincide with those  
13 reinsurance premiums. And then subsequent to that, I  
14 could calculate a net cost to reinsurance.

15 Q. So when you have calculated it, you have  
16 actually seen historical data actually paid by carriers  
17 for their net.

18 A. Yes.

19 Q. But you didn't see any of that here?

20 A. No.

21 Q. Okay. Have you ever seen a reinsurance  
22 cost -- or excuse me -- a net calculation without some  
23 apparent actual prices included in it, other than this  
24 filing?

25 A. In any other state, a rate filing that

1 would include the net cost of reinsurance would be for  
2 an individual company. And the corresponding losses  
3 and expenses and components of that filing would be  
4 company-specific. So in order to support their net  
5 cost of reinsurance in the filing, they would need to  
6 provide that specific information.

7 So, yes, this information is readily available  
8 in a state like Florida, where reinsurance information  
9 needs to be provided as part of the rate filing  
10 process. Because the Rate Bureau is submitting a  
11 filing on behalf of the industry, those assumptions,  
12 those processes, and method, they're different because  
13 the Rate Bureau is presenting information as a  
14 hypothetical one company.

15 There is not a single reinsurance contract that  
16 applies to the entire state of North Carolina or to the  
17 entire industry. So some of what we observe in other  
18 states simply doesn't apply in North Carolina.

19 Q. But the Rate Bureau's submissions, where  
20 there is relevant North Carolina data, are based, as I  
21 understand it, on the data they receive from the  
22 individual members through their data calls. Is that  
23 correct?

24 A. That's correct.

25 Q. Okay. Have you ever seen any actual data

1 requested by the Bureau of its members regarding the  
2 costs of the net?

3 A. I have not seen that data.

4 Q. If you did see that data, would it give  
5 you a better insight into the actual costs that North  
6 Carolina carriers have for the net?

7 A. If the data was the actual reinsurance  
8 costs, yes, that would give me insights into the actual  
9 reinsurance costs.

10 Q. Would it give you insights and/or make you  
11 more comfortable with, if you were -- if you were the  
12 person calculating the net for the Bureau, would you  
13 find it helpful to have the actual costs, the net costs  
14 of the members?

15 A. It would be helpful, but that -- that  
16 specific component of rate indication or the rate  
17 making process is one item that companies keep  
18 confidential and proprietary. It's oftentimes only  
19 included in filings when a state such as Florida might  
20 require it.

21 So companies are typically reluctant to share  
22 that information. My understanding is that the Rate  
23 Bureau has asked for that information. It's just  
24 exceptionally difficult to obtain that.

25 As a result, the approach that's being used,

1       relying on leading expert in the reinsurance market and  
2       Aon to use their experience to identify a reasonable  
3       layer of reinsurance and to quantify it that way is --  
4       is a very reasonable alternative.

5               Q.     Do you know whether homeowners' carriers  
6       that are members of the Bureau in North Carolina file  
7       annual financial statements with the Department of  
8       Insurance?

9               A.     You mean with the North Carolina  
10       Department of Insurance?

11              Q.     Yes.

12              A.     I'm not 100 percent certain what the  
13       filing requirements are.  If it's only their state of  
14       domicile or if they need to also submit financials in  
15       other states in which they're licensed, I'm not 100  
16       percent certain of that.

17              Q.     Okay.  So you've -- have you ever seen any  
18       annual financial statement of a North Carolina  
19       homeowners' carrier?

20                   MR. BEVERLY:  Objection.  You mean a  
21       carrier that writes in North Carolina?

22                   MR. FRIEDMAN:  I guess I better --  
23       better specify.  Yes.  It would be a member of the  
24       Bureau that writes homeowners.

25                   HEARING OFFICER FUNDERBURK:  Can you

1 fully -- could you fully rephrase the question for  
2 the witness?

3 MR. FRIEDMAN: Absolutely.

4 BY MR. FRIEDMAN:

5 Q. Have you ever seen an annual filing of a  
6 homeowners' carrier, an annual North Carolina filing of  
7 a homeowners' carrier that is a member of the Bureau?

8 A. A rate filing?

9 Q. No. Annual financial filing. Annual  
10 statement.

11 A. I have seen annual statements of companies  
12 that are members of the North Carolina Rate Bureau.  
13 Those annual statements would reflect the entire  
14 organization, and it would not be North Carolina  
15 specific, the -- the information that's contained in  
16 that.

17 Q. Do those annual filings -- for national  
18 companies you're talking about? Is that fair?

19 A. Yes. Yeah.

20 Q. For national companies, do those filings  
21 reflect their overall cost of reinsurance?

22 A. Indirectly. There are data elements in an  
23 annual statement such as direct written premium and net  
24 written premium that you can then imply the difference  
25 of those would be the ceded premium.

1 I actually tried doing some of these  
2 calculations recently, and the right information isn't  
3 there to obtain what I would consider a reasonable  
4 calculation or estimate of a net cost of reinsurance.  
5 So there are -- there's some direct losses and some net  
6 losses, but the pieces don't all fit together based on  
7 the information in the annual statement.

8 Q. For what purpose were you recently trying  
9 to discern that?

10 A. To see if I could determine the net cost  
11 of reinsurance out of an annual statement.

12 Q. The -- is your understanding that for  
13 other expenses in the -- for North Carolina homeowners'  
14 Bureau members that respond to the data calls, some of  
15 those are national carriers as well. Is that correct?

16 A. That's correct.

17 Q. And have you seen those carriers apportion  
18 their national expenses to North Carolina?

19 A. Which expenses are you specifically  
20 referring to?

21 Q. Their G&OA.

22 A. My understanding is that some of the  
23 expenses such as the G and OA, the General and Other AC  
24 (phonetic), are typically countrywide expenses.

25 Obviously, well, expenses that might get, I want to say



1 allocated or can be attributed to individual states  
2 would be something like premium taxes, which are unique  
3 by state. So it depends on the expense component as to  
4 whether it's a countrywide estimate or a state-specific  
5 estimate.

6 Q. Okay. So what is a component? I use the  
7 term apportion just because it's a tax term, but what  
8 is the allocate -- how -- are there some expenses, G&OA  
9 expenses, that are allocated by those national  
10 companies to North Carolina in order to respond to the  
11 data calls?

12 A. Yes. In fact, the ones you just  
13 mentioned, the General and Other AC, I believe, are  
14 allocated to the state because there are, as I think  
15 about it, there are state pages within the annual  
16 statement where the General and Other AC and  
17 commissions and taxes license fees can be found.

18 Q. Other than the companies' proprietary  
19 concerns about revealing what they pay for net, is  
20 there anything prohibiting them if they have a national  
21 reinsurance treaty from allocating some part of that to  
22 North Carolina?

23 A. The process of allocating a countrywide  
24 reinsurance contract to individual states is -- is not  
25 straightforward. It's complex. There isn't really a

1 consistent methodology to do. There are several  
2 methodologies that are considered or used. That's a  
3 difficult process to do.

4 Q. But it is possible?

5 MR. BEVERLY: Objection; calls for  
6 speculation.

7 MR. FRIEDMAN: Your Honor, why don't we  
8 go to -- we're going to turn back to the Actuarial  
9 Standards of Practice that is at Book 3, Exhibit  
10 12.

11 HEARING OFFICER FUNDERBURK: Is this in  
12 regard to arguments regarding Mr. Beverly's motion  
13 or objection, I'm sorry?

14 MR. FRIEDMAN: It is. It is absolutely  
15 related to that.

16 HEARING OFFICER FUNDERBURK: Proceed.

17 MR. FRIEDMAN: Sorry, one second, Your  
18 Honor.

19 HEARING OFFICER FUNDERBURK: And while  
20 you're doing that, Mr. Beverly, could you elaborate  
21 on why that would be speculative, not able to be  
22 done?

23 MR. BEVERLY: Anything is possible,  
24 Your Honor. I was looking for more context to the  
25 question.

1 HEARING OFFICER FUNDERBURK: Okay.

2 MR. BEVERLY: That's all.

3 HEARING OFFICER FUNDERBURK: Thank you.

4 MR. FRIEDMAN: Sorry, Your Honor.

5 There is a specific provision on speculation by  
6 actuaries, and I'm looking for it. I'll move on in  
7 30 seconds, Your Honor, if I can't.

8 If you could turn -- we're going to be  
9 going to ASOP 17, and that is at page 18 in Exhibit  
10 12 and going to Rule 3.8 that is on page 21. I'll  
11 read it into the record.

12 The actuary may be asked to answer  
13 hypothetical questions. Hypothetical questions may  
14 fairly reflect facts and evidence, may include only  
15 a part of the facts and evidence, or may include  
16 actuarial assumptions the actuary believes to be  
17 unreasonable.

18 If permitted by the rules of evidence  
19 and procedure and any other rules applicable in the  
20 forum, and by the rulings of a judge or other  
21 official charged with overseeing the forum, the  
22 actuary may refuse to answer hypothetical questions  
23 based on what he believes, in good faith, to be  
24 unreasonable actuarial assumptions.

25 So my response to Mr. Beverly would be

1           that it -- this is -- I mean, actuaries are  
2           employed to hypothesize. They term it estimate,  
3           but still, that's what they're -- that's the nature  
4           of what they do is look at different possibilities  
5           and outcomes and consider if X fact were to change,  
6           what would that outcome be.

7                        So that is -- I'm asking him simply  
8           whether it is possible that for a national insurer  
9           that is a member of the Bureau and writing  
10          homeowners insurance in North Carolina to allocate  
11          some portion of its national net reinsurance costs  
12          to North Carolina. He's answered so far that it's  
13          cumbersome, but I'm asking him whether it's  
14          possible.

15                       HEARING OFFICER FUNDERBURK: And I  
16          think that the first question is, is it possible?  
17          I wouldn't necessarily consider that to be  
18          speculative because it's yes or no. Is it  
19          possible? Now, we may be in different territory  
20          when and if he's asked to speculate.

21                       So, Mr. Beverly, I'm going to overrule  
22          your objection and ask the witness do you  
23          understand the question that is pending, Mr.  
24          Anderson? Would you like it restated?

25                       MR. DIETDERICH: Can you repeat the

1           questi on, pl ease?

2                           MR. FRIEDMAN:    Sure.

3   BY MR. FRIEDMAN:

4           Q.    Is it possible for a national homeowners'  
5 carrier that is a member of the Bureau writing  
6 homeowners insurance in North Carolina to allocate some  
7 percentage of its national net costs of reinsurance to  
8 North Carolina?

9                           HEARING OFFICER FUNDERBURK:    And, Mr.  
10 Friedman, please adjust your microphone.  Bring  
11 that closer so the court reporter can hear you.  
12 Thank you.

13                           THE WITNESS:    Yes.  That would be  
14 possi bl e.

15 BY MR. FRIEDMAN:

16           Q.    Did you review the CAR calculation that  
17 Milliman did in 2014?

18           A.    Yes.

19           Q.    Okay.  Is it correct that that was based  
20 on the AIR WSST?

21           A.    I reviewed it at the time, which was ten  
22 years ago.

23           Q.    Okay.

24           A.    I would rely on whatever is documented  
25 with the 2014 filing if it identifies what version of

1 the AIR model was used, then that's what was used.

2 Q. Do you recall whether or not the output  
3 that was used to calculate -- the AIR output that was  
4 used to calculate the CAR was event level?

5 A. Yes. The output from the AIR model that  
6 would have been used in the CAR analysis would have  
7 been event level.

8 Q. Okay. For the CAR analysis or CAR  
9 analysis in the current filing, is the model output at  
10 event level?

11 A. My understanding is that Aon intended to  
12 replicate Milliman's methodology from the 2020 filing.  
13 And if they did that then that would have also used  
14 event level data.

15 Q. Okay. Going back to your testify --  
16 testimony. On page 5 of your testimony, in the last  
17 paragraph before the first full question, beginning  
18 with this approach.

19 A. Yes.

20 Q. Okay. You state, this approach, though it  
21 changed from the 2020 homeowners' filing, was used by  
22 the Rate Bureau and its dwelling insurance rate filing  
23 submitted in July 2023. And the change is reasonable,  
24 actuarially sound, and has minimal impact on the rate  
25 level indications.

1           By that, are you in addition to talking about  
2           that change, are you also saying that Aon's calculation  
3           of the CAR is actuarially sound?

4           A.     I'm just checking to see if I specifically  
5           comment on the compensation for assessment risk later  
6           in my testimony.

7           Q.     Where else do you -- page 13 is where you  
8           address it further. If you look at --

9                   HEARING OFFICER FUNDERBURK: Well, Mr.  
10           Anderson, you can have the time you need and just  
11           let us know when you're ready to proceed.

12                   THE WITNESS: As I say, so in on page  
13           13, I say I reviewed Aon's methodology and results  
14           to ensure that the compensation for assessment risk  
15           provision in this filing is consistent with those  
16           previous filings. So given that it was consistent,  
17           I would say that it was reasonable.

18           BY MR. FRIEDMAN:

19           Q.     Thank you. Now, with regard to the CAR,  
20           you testified that the calculation includes both the  
21           potential for FAIR Plan assessments and the potential  
22           for Beach Plan assessments. Is that right?

23           A.     Yes. That's correct.

24           Q.     Do you know if there's a statutory  
25           provision allowing for the Commissioner to take into

1 account as part of a rate assessment by the FAIR Plan?

2 A. Can you explain your question?

3 Q. Sure. Are you aware that there is a North  
4 Carolina statute allowing the Commissioner to take into  
5 account, for the purposes of rate making, the potential  
6 for an assessment by the Beach Plan?

7 A. Yes.

8 Q. Are you aware of whether there's a similar  
9 plan for a similar permission for the Commissioner with  
10 regard to FAIR Plan assessments?

11 A. I believe the statutes are silent on one  
12 of the entities. It's where it's not mentioned. So it  
13 explicitly identifies one and is silent on the other.

14 Q. Are you aware that in the 2014 order by  
15 the then Commissioner, he found that the CAR did not  
16 provide for consideration of an assessment as to FAIR  
17 Plan's assessments by the FAIR Plan, if I may rephrase?

18 A. I am -- I am familiar with the order as it  
19 relates to the compensation for assessment risk.

20 Q. So you do recall that part of his 2014  
21 order?

22 A. Yes.

23 Q. Okay. Did notwithstanding that order and  
24 notwithstanding the fact that you don't know whether --  
25 you're not aware of any statute permitting the



1        Commissioner to consider FAIR Plan assessments, did for  
2        as long after that, 2014, as Milliman calculated the  
3        CAR, did it continue calculating it with FAIR Plan  
4        assessments?

5            A.        Yes. The compensation for assessment risk  
6        reflects FAIR Plan assessment, but it is not a  
7        provision for assessment.

8            Q.        I understand it's not a provision for  
9        assessment. It's the CAR. Correct?

10          A.        Right.

11          Q.        But you're aware that the Commissioner's  
12        order in 2014 said that the CAR cannot be calculated to  
13        reflect FAIR Plan data.

14          A.        Is that also reflected in the statutes?

15          Q.        No. There's -- as you said, there's  
16        nothing in the statutes about FAIR Plan data allowing  
17        the Commissioner to consider it at all.

18          A.        Is there a question?

19          Q.        Yeah. The question was -- back that up  
20        then. So when did Milliman stop doing the CAR  
21        calculation? Remind me.

22          A.        After the 2020 filing.

23          Q.        Okay. And since then, has --

24                    HEARING OFFICER FUNDERBURK: Mr.  
25        Friedman, please speak up or get closer to the mic.

1 BY MR. FRIEDMAN:

2 Q. Since then, has Aon continued including  
3 FAIR Plan data in its calculation of the CAR?

4 A. Yes. They have.

5 Q. Okay. Since you are aware of the absence  
6 of any statutory provision allowing that and since you  
7 are aware of the Commissioner in 2014 saying it's not  
8 allowable, the FAIR Plan data, did you have any  
9 concerns about the law on that issue that such that  
10 you'd raise them in your personal opinion or such that  
11 you'd raise them to Ms. Mao or such that you'd raise  
12 them for to the attention of the Commissioner's  
13 actuaries?

14 A. No.

15 Q. Why not?

16 A. My understanding is that the  
17 Commissioner's order misunderstands the intention of  
18 the compensation for assessment risk. This does not  
19 relate to expected assessments.

20 Q. The Commissioner's order was upheld on  
21 appeal. Was it not?

22 A. Yes.

23 Q. To your understanding, does that establish  
24 the law in North Carolina, an appellate decision?

25 A. My under --

1 MR. BEVERLY: Objection.

2 HEARING OFFICER FUNDERBURK: Grounds,  
3 just put a statement for the record, and then I'll  
4 allow Mr. Friedman to respond.

5 MR. BEVERLY: I mean, there's --  
6 there's a question asking him whether he  
7 understands what the Court of Appeals was thinking  
8 in -- in ruling on a Commissioner's order.

9 HEARING OFFICER FUNDERBURK: Any  
10 arguments, Mr. Friedman?

11 MR. FRIEDMAN: Yes. I'm not asking  
12 that question. I'm asking whether he understands  
13 that a Court of Appeals decision, whatever it may  
14 say, is law.

15 HEARING OFFICER FUNDERBURK: I'm going  
16 to sustain as to the way that I heard the question  
17 and ask you to restate and rephrase your question.

18 BY MR. FRIEDMAN:

19 Q. Do you understand that the Commissioner --  
20 excuse me, that the Court of Appeals decision affirming  
21 the Commissioner's 2014 order is law?

22 A. I'm not a legal expert in a situation like  
23 that. I would rely on the Rate Bureau's counsel.

24 Q. Do you know the history of assessments  
25 currently for the FAIR Plan versus the Beach Plan? In

1 the last ten years, do you know whether the Beach  
2 Plan's assessed more than once?

3 A. Not off the top of my head. I would know  
4 where to find that information, though.

5 Q. Do you know how often over the past ten  
6 years the FAIR Plan has assessed?

7 A. I believe the FAIR Plan has issued  
8 assessments a couple of times in the last few years, if  
9 I'm remembering right. I know one of the entities has.  
10 I thought it was the FAIR Plan. I may be  
11 misremembering that.

12 Q. Hypothetical. If the FAIR Plan is  
13 assessing more often than the Beach Plan, and if you're  
14 including the FAIR Plan data on those assessments in  
15 your CAR, would that not drive up the CAR as opposed to  
16 just including the Beach Plan assessments?

17 A. The compensation for assessment risk is  
18 not a provision for assessment?

19 Q. They're -- they're including it as the  
20 data. If the Beach -- if the FAIR Plan is assessing  
21 more often and you include that data, then the Beach  
22 Plan is assessing, and you include that data in  
23 calculating the CAR, would that drive up the number,  
24 the mere fact that the FAIR Plan is assessing more  
25 often?

1 HEARING OFFICER FUNDERBURK: Would --  
2 would you like the question restated, Mr. Anderson?

3 THE WITNESS: I can answer -- I can  
4 answer the question.

5 Not based on the current methodology  
6 because we're using modeled hurricane data. The  
7 recent history of assessments doesn't impact the  
8 analysis because it's based on modeled data.

9 BY MR. FRIEDMAN:

10 Q. But it is also based on the surplus in but  
11 the calculation is at least based on the surplus, the  
12 actual surplus of the FAIR Plan versus the Beach Plan.  
13 Is that correct?

14 A. That's correct.

15 Q. Do you know whether, in the case of the  
16 FAIR Plan, the surplus has been exhausted so that it  
17 has assessed?

18 A. I haven't looked at financials recently,  
19 but I believe that they have had to assess in the last  
20 several years.

21 Q. And wouldn't the fact that the calculation  
22 is taking into account the surplus and the FAIR Plan is  
23 assessing more often than the Beach Plan, wouldn't that  
24 lead to the CAR being higher than if you were to  
25 include only the Beach Plan data?

1           A.     Including FAIR Plan model losses and their  
2     contribution to assessments to the industry creates a  
3     larger compensation for assessment risk than only  
4     including the Beach Plan.

5           Q.     Thank you. Turning to page 6 of your  
6     report, about middle of the page, do you see beginning  
7     with "in my opinion", do you see where it states, in my  
8     opinion, the selections and methodologies referenced  
9     above, including the excess factor, the loss adjustment  
10    expense factors, the loss trend factors, and the  
11    premium trend factors are reasonable and actuarially  
12    sound?

13          A.     Yes. I see that.

14          Q.     And other than the hurricane loss  
15    adjustment expenses, the rest of those were calculated  
16    by ISO?

17          A.     Yes. They were.

18          Q.     Is it your understanding that in this  
19    case, with regard to the historical losses, the ISO  
20    used what's called a two-step formula to diverge  
21    between the historical losses and then the prospective  
22    ones.

23          A.     Did you say a two-step formula?

24          Q.     Yes.

25          A.     Yes. I'm familiar with that.

1 Q. Okay. Could you explain what that is?

2 A. In the process of trending losses, maybe  
3 by contrast, a one-step process would be to select a  
4 single loss trend factor and determine how many years  
5 to trend or to project each of the historical accent  
6 (phonetic) periods into the future. So you select a  
7 trend rate and you apply that to all the years.

8 To add precision and responsiveness, many  
9 companies, including the Rate Bureau, use a two-step  
10 approach where they make one selection for the  
11 historical time period and a separate selection for  
12 what they call the projection period.

13 So typically, the end of the historical period  
14 is either the midpoint or the end of the most recent  
15 accent year in the experience period. A separate trend  
16 selection is made for that because you can observe  
17 history and identify what the trend is over that time.

18 And it's typically a narrower range of trend  
19 selections to make. It's a little bit more of a, if  
20 you want to say, a straightforward process. Obviously,  
21 to project things into the future, it's a wider range  
22 of potential selections there because that's unknown.

23 And so it's a little bit more straightforward or  
24 easy to pick the historical loss trend for the  
25 projected trend. Actuaries would also maybe look at

1 the last several years to see are those trends  
2 changing.

3 If the trend is significantly increasing or  
4 decreasing in the most recent year or two, you can  
5 reflect that in the projection period. It may not be  
6 appropriate to apply that if you only use the one-step  
7 approach over the historical and the projection.

8 So the two-step breaks it up into historical and  
9 projection to allow for really reflecting the  
10 historical data separately from where you think the  
11 future experience will be.

12 Q. And you said many companies use that in  
13 addition to the Rate Bureau?

14 A. Yes.

15 Q. Okay. Have you ever used it?

16 A. Yes.

17 Q. Now, where you have calculated historical  
18 and prospective losses, have you ever become aware of  
19 subsequent data? For example, a subsequent data on a  
20 subsequent year's losses that caused you to change your  
21 calculation?

22 A. No. That's typically not the way a rate  
23 filing process works. When a rate indication or a rate  
24 indication supporting a rate filing is submitted, that  
25 historical experience, that analysis, that rate



1 indication is what is being evaluated in the filing.

2 To introduce new data as a separate filing.

3 I, in my earlier comments, I talked about the  
4 delay in reviewing and approving filings. Typically,  
5 there's no need to update the data if the filing is  
6 reviewed within 30 or 60 days.

7 North Carolina is unique, especially with Rate  
8 Bureau filings, where it has been over ten months since  
9 this filing has been submitted. The analysis was done  
10 well before that. We talked about the timeframe for  
11 that.

12 I can't think of any other insurance company,  
13 individual insurance company, that would be in a  
14 situation like this where the -- it would even be  
15 feasible to introduce new data. So the -- the delay in  
16 the regulatory process here is what provides even the  
17 opportunity to consider this.

18 It's not what actuaries do. We don't -- we  
19 don't introduce new data into a filing that's already  
20 been submitted. That's a whole separate analysis.  
21 It's a whole separate filing.

22 Q. Are you familiar with what the 2014  
23 Commissioner's order, how it addressed the -- respect  
24 the -- the loss trend, in particular, the data that was  
25 available for analysis?

1           A.     I believe I have a high level  
2 understanding of that.

3           Q.     Okay. Do you recall that the Commissioner  
4 said that, for his purposes, he can take notice of  
5 subsequent data that has revealed itself after the data  
6 period that you were looking at?

7           A.     I didn't recall that detail. I do not  
8 recall that detail.

9           Q.     So let's see. On page 7 of your report --  
10 actually, one second, Your Honor.

11           On page 8, first full answer about midway down.  
12 When you state, I'm also familiar with the assumptions  
13 selected as inputs to each model, and it is my opinion  
14 that the assumptions were applied consistently in both  
15 the AIR and RMS models, such that the resulting output  
16 of both models is comparable. Do you see that?

17           A.     Yes.

18           Q.     Okay. Are you familiar with the term  
19 black box to describe models?

20           A.     Yes.

21           Q.     Is that a common term for -- among  
22 actuaries to describe particularly catastrophe models?

23           A.     No. I wouldn't say that actuaries  
24 consider catastrophe models to be black boxes. I hear  
25 that term more in reference to statistical models,

1 generalized linear models, things that are some of  
2 the -- the more complex versions of those you get into  
3 -- this is going to go down a statistical road there,  
4 but neural networks and GBMs and different types of  
5 modeling like that where it's not easily explainable.

6 For actuaries, catastrophe models are  
7 explainable. There are different components to it from  
8 the meteorological aspect, the damaging aspect of it,  
9 the exposure aspect of it. When the industry refers to  
10 black boxes, that implies that there's just uncertainty  
11 and a lack of information and a lack of disclosure.  
12 And that's not the case with catastrophe models.

13 The -- the modelers disclose as much information  
14 as they're able to, to explain it, to allow regulators  
15 to be comfortable with it, and to approve it. There's  
16 proprietary information that cannot be shared. You  
17 know, the -- the proprietary information around the  
18 meteorological data or how the engineers are -- are  
19 assessing the damage to structures.

20 But the actual just the way the kind of general  
21 overview of how the model works, enough information has  
22 been shared that my opinion is actuaries would not  
23 consider that to be a true black box, that there's  
24 enough understanding to be comfortable with the  
25 modeling process and to be comfortable with the

1 results.

2 Q. Okay. You just spoke about engineering.  
3 For lack of a better term, I'll call it inputs, to the  
4 models that can't be shared.

5 A. By engineering, I meant, like, engineers  
6 that are building and constructing buildings.

7 Q. Right.

8 A. Okay.

9 Q. I -- for instance, with regard to homes,  
10 the durability of --

11 A. Right. Right.

12 Q. -- homes. Okay.

13 A. Sorry. Some people use engineering in  
14 talking about even modeling, engineering the data,  
15 engineering.

16 Q. I've represented the North Carolina  
17 Building Code Council for four years. I got some  
18 understanding about the broad array of engineers there.

19 So you say that that -- the modelers can't -- is  
20 that -- the model, the companies that create the  
21 software can't reveal how they're in -- what their  
22 assumptions are as far as engineering?

23 A. I suppose they can. I would say maybe  
24 they choose not to. I mean, that's -- that's what  
25 would make one model different than the next. I mean,

1 that's what makes the AIR different than RMS is all the  
2 components that they would use to build that model.

3 So --

4 Q. I'm sorry. I misunderstood your  
5 testimony. You were explaining the difference between  
6 RMS versus --

7 A. You asked if engineers can or can't  
8 disclose information.

9 Q. I guess I should better say the software  
10 makers who create the models. Can that -- you said  
11 that they can't -- I understand is that when you're  
12 talking -- you're not talking about whether or not Ms.  
13 Mao, for example, can disclose the engineering  
14 assumptions that have gone into RMS. Are you?

15 A. No. I'm talking about AIR and RMS.

16 HEARING OFFICER FUNDERBURK: Mr.  
17 Friedman, can you restate the question so we're  
18 clear where we are?

19 BY MR. FRIEDMAN:

20 Q. So, I'm distinguishing between the user of  
21 the model, which would be, in this case, Ms. Mao, and  
22 the creator of the model. I referred to them as the  
23 software maker. But -- and in this case, when you say  
24 that the engineering standards that have been  
25 programmed in as assumptions to the model cannot be

1 shared, they won't -- that is they won't be shared by  
2 AIR and RMS, correct?

3 A. This is getting beyond my expertise. So I  
4 wouldn't say the engineering standards, but maybe the  
5 way those are applied in the modeling or the way,  
6 again, the weather patterns are simulated. It's how  
7 these different components are being simulated or  
8 estimated. That's the proprietary information of each  
9 model that would not be shared with the public.

10 Q. Okay. When a person is using the model,  
11 such as Ms. Mao, reports its results, do those results  
12 contain some part of -- let's just put it this way --  
13 are the losses in the results based on some part of the  
14 model that does address the durability of a house? The  
15 engineering of house?

16 Is it your understanding that the model you may  
17 not know what engineering assumptions are built into  
18 the models, but is it your understanding that when you  
19 use the models and get the results, the model is taking  
20 into account, for example, that all the homes on the  
21 coast in North Carolina may be made of Styrofoam?

22 A. I understand your question. Yes. The  
23 output or the results of the model would reflect the  
24 components that go into that model, which would  
25 include, among other things, the engineering component

1 of that, the damageability function. Did I answer your  
2 question?

3 Q. It does.

4 A. Okay.

5 Q. It does. So is -- the user of the model,  
6 how can the user cross check whether those  
7 damageability assumptions are at all accurate?

8 A. I can't speak for what Aon does to  
9 validate the models. I'll resort back a little bit to  
10 when I worked at Allstate. So this is -- this occurred  
11 a number of years ago, 20 or so years ago. But when  
12 Allstate -- so this isn't even directly applicable to  
13 Allstate today.

14 But when Allstate might evaluate the use of  
15 different modelers, different vendors, we would  
16 evaluate -- we would rely on kind of the validation of  
17 those models so that the modelers may -- may simulate  
18 historical events that actually occurred.

19 So in 1995, they could have re-simulated  
20 Hurricane Andrew, and they can -- they could compare  
21 their actual modeled losses to what actually happened  
22 during the actual event. So you can -- you can rerun  
23 old events on the models today and compare an actual to  
24 predicted. That's a very common approach.

25 They can do other validation techniques and can

1 even adjust some of the different assumptions in the  
2 models and show companies how that affects the results  
3 so they can assess is option A reasonable or is option  
4 B reasonable.

5 So the assessment of the components and of the  
6 assumptions and of the proprietary information is  
7 really done through, I want to say, kind of scenario  
8 testing or these validation exercises where they can  
9 see the results that are generated in different  
10 scenarios and determine is this reasonable.

11 Q. So is my understanding correct that those  
12 validation methods you can engage in for a model would  
13 test the overall losses against the overall model  
14 losses?

15 A. Overall for what?

16 Q. Let's use hurricanes as an example. When  
17 you -- you were talking about validation methods for  
18 hurricane losses that are modeled.

19 A. In a state, in a country, in a year? I  
20 mean, what -- what -- what model or what losses are  
21 being compared?

22 Q. North Carolina.

23 A. So what would you like to compare?

24 Q. If you -- are you able to validate --  
25 well, first of all, you don't -- the user of the model



1 does not know what portion of the model losses are  
2 specifically attributable to the quality of home  
3 construction in North Carolina. Is that right?

4 A. Right. Right.

5 Q. And when you go back and validate, do you  
6 happen to have that data?

7 A. No.

8 Q. Okay. As to meteorological assumptions in  
9 the models, I understood your testimony to also be that  
10 the model makers -- RMS, Aon has its own models, AIR --  
11 don't reveal the proprietary data regarding what  
12 climatological assumptions they built into the model.

13 A. That's my understanding.

14 Q. AIR is owned by Verisk, isn't it?

15 A. Yes.

16 Q. And it, in fact, does business under the  
17 name Verisk nowadays?

18 A. That's my understanding.

19 Q. ISO is owned by Verisk and does business  
20 as Verisk nowadays.

21 A. That's correct.

22 Q. Okay. And Aon owns its own type of or has  
23 its own type of modeling that at least is not reflected  
24 in the Aon data here. Is that correct?

25 A. I'm not aware of that. I'm not certain.

1 Q. Did the Bureau request that Aon  
2 specifically combine the results for hurricane losses,  
3 not the CAR, not the net. But for hurricane losses,  
4 did Aon -- did the Bureau request that Aon combine the  
5 results from the AIR standard model and the RMS  
6 historical model?

7 A. Actually, the statute requires the Rate  
8 Bureau to consider two models.

9 Q. I'm speaking, though, as to those two  
10 particular models. Do you know whether the Rate Bureau  
11 asked Aon to use those two particular models?

12 A. I don't know that specific discussion as  
13 to if direction was provided, if a recommendation was  
14 made by Aon. So I don't know that exact interaction  
15 there.

16 AIR and RMS are certainly the two most well-  
17 known, I would say, the kind of the longest tenured CAT  
18 model vendors as far as, again, just being widely known  
19 and used throughout the industry. So those two  
20 certainly come to mind frequently when hurricane models  
21 or CAT models are discussed.

22 Q. Are you aware that it was not the AIR  
23 standard or the RMS historical, but rather the AIR WSST  
24 and the RMS medium term that were specifically used for  
25 the calculation of the net cost of reinsurance as well

1 as the CAR?

2 A. Yes.

3 Q. Okay. Do you know whether the Bureau  
4 instructed Aon to use those models for that limited  
5 purpose or whether Aon chose to?

6 A. I believe the Rate Bureau would have  
7 directed, given that direction, based on input and  
8 guidance from Aon about what is used and done in the  
9 industry. When pricing and -- and Ms. Mao is -- is  
10 more of an expert in this area, but when reinsurance  
11 contracts are priced, they consistently rely upon the  
12 warm sea surface temperature model and the medium term  
13 model. That's the way reinsurance is priced, and  
14 therefore that's what was used as the basis of the Rate  
15 Bureau's analysis.

16 Q. Did you review the modeled loss results  
17 from -- that Aon provided from, on one hand, RMS  
18 historical and AIR standard, versus, on the other hand,  
19 Air WSST and RMS medium term?

20 A. I don't recall if I had -- if I was -- if  
21 I received data that showed the two models separate  
22 from each other, I believe the information that I was  
23 provided to review the output was the blended version  
24 of the models. So AIR and RMS were already combined at  
25 that point.

1 Q. But -- okay. Better said this then. Did  
2 you see on one hand the combined model losses of AIR  
3 standard and RMS historical combined?

4 A. Can you repeat that again?

5 Q. Sure. Did you see on one hand the model  
6 loss results from AIR standard and RMS historical  
7 combined?

8 A. Yes.

9 Q. Did you see, on the other hand, the  
10 modeled loss results from AIR WSST and RMS medium term  
11 combined?

12 A. I'm trying to recall from the reinsurance,  
13 the net cost of reinsurance analysis. The starting  
14 point of that calculation is the calculated reinsurance  
15 premium. And the Rate Bureau then subtracts the  
16 modeled losses corresponding to those layers related to  
17 the standard and the long term model.

18 The ratepayer would not need the modeled losses  
19 from the warm sea surface temperature medium term to do  
20 that calculation. So I'm not sure if they were  
21 available in that analysis file or not.

22 Q. So you don't recall seeing them?

23 A. I don't recall seeing them.

24 Q. Do you recall seeing any data in the  
25 results from the hurricane models, any of the four that

1       made a distinction between the hurricanes that made  
2       landfall in North Carolina versus those that didn't?  
3       The modeled hurricanes, I should say.

4             A.       Yeah. The only time I saw that  
5       distinction was when the filing was put together, and I  
6       believe it's Exhibit F in the filing that has all the  
7       detailed hurricane data. That's the only time where  
8       that level of detail is provided to see where the  
9       events made landfall.

10            Q.       So Exhibit F in your recollection shows  
11       which modeled hurricanes made landfall outside of North  
12       Carolina versus which modeled hurricanes land fell in  
13       North Carolina?

14            A.       That's correct.

15            Q.       For those modeled hurricanes that had  
16       landfall outside of North Carolina, do you recall any  
17       data in Aon's data that distinguished among the  
18       strength of the winds once that non-landfall hurricane  
19       reached North Carolina?

20            A.       In Exhibit F that has that level of  
21       detail, there was a category of the storm, but the  
22       standard industry practices of that is measured at the  
23       time of landfall. That's -- that's the way the  
24       modelers identify the category of the event is at the  
25       time of landfall or maybe a small distance off of

1 shore. It's very near to the time of landfall.

2 And I believe if you go to the NOAA website,  
3 National Oceanic, they're -- again, they're the  
4 government entity that is the expert on hurricanes.  
5 They also identify the category of the storm based on  
6 when it made landfall.

7 There are historical storm tracks that may  
8 identify a higher category throughout the storm track,  
9 but when a category of a hurricane is identified, it  
10 relates to the time of landfall.

11 Q. Is it possible that if there is a Category  
12 5 -- well, let's just, regardless of the category, if  
13 there is a modeled hurricane based on that simply is a  
14 hurricane based on, I think, the 75-miles-per-hour  
15 standard that hits South Carolina that by the time it  
16 actually comes to North Carolina, will not any longer  
17 be a hurricane because it's no longer has wind speeds  
18 of 75 miles an hour?

19 A. What's the question in that?

20 Q. Is it possible that if something -- if an  
21 actual hurricane hits South Carolina, it's a hurricane  
22 because it's winds are over 75 miles. By the time it  
23 hits North Carolina, it is no longer classifiable as a  
24 hurricane?

25 A. Yes. That's -- that's possible.

1 Q. Okay. To your knowledge, do -- in  
2 modeling North Carolina losses, do AIR or RMS take that  
3 into account? The fact that it's modeled hurricanes  
4 may no longer technically be hurricanes once they hit  
5 North Carolina.

6 A. What do you mean by take into account?  
7 What would they do with that to take --

8 Q. Would their losses in North Carolina for a  
9 non-North Carolina landfall event be based -- their  
10 calculation of North Carolina losses -- be based on the  
11 strength of the modeled hurricane in whatever other  
12 state it made landfall? Or would it be based on the  
13 actual wind speed by the time it reached North  
14 Carolina?

15 A. There are modeled hurricane losses in  
16 North Carolina attributable to an event. Some kind of  
17 a named hurricane or named storm. The category of that  
18 storm is based on when it makes landfall. So whether  
19 it makes landfall in North Carolina or South Carolina  
20 or Florida as a Category 4, regardless of what it is  
21 when it gets to North Carolina, it's categorized as a  
22 Category 4 based on the time of landfall. And if it  
23 generates modeled losses in North Carolina, it will be  
24 in the dataset.

25 Q. So the modeled losses, as for example,

1       there's a model hurricane that hits Florida, Category  
2       4. Are the model losses for North Carolina, once it  
3       reaches here, based on the damage that a Category 4  
4       hurricane can inflict even though that may no longer  
5       even be a hurricane when it hits North Carolina?

6             A.     Are you asking if the losses in North  
7       Carolina would represent or reflect a Category 4  
8       hurricane?

9             Q.     Yes.

10            A.     No. That -- the path of the hurricane is  
11       part of the modeling process. It's simulated, and that  
12       includes a weakening of the winds. It would include  
13       the corresponding rainfall and the wind speeds and  
14       things like that. So I'm sure there are others tens of  
15       thousands of rows of data there.

16            But if we went through, we could find a Category  
17       4 storm that made landfall in Florida that only had  
18       \$50,000 of losses in North Carolina because that  
19       simulated storm died down so much that there were  
20       barely any winds, therefore, barely any losses in North  
21       Carolina.

22            So through the modeling process, the modeled  
23       losses in North Carolina represent the state or the  
24       condition of that storm when it's affecting North  
25       Carolina.



1 Q. Okay. Thank you for clarifying that.  
2 Does -- do the RMS and AIR models only measure  
3 hurricane strength events?

4 A. I'm not 100 percent certain. That might  
5 include some tropical depressions. If it's -- it may  
6 include named storms, which includes tropical  
7 depression sometimes, so there would be a lower  
8 threshold for that. Again, that would be something  
9 that Ms. Mao would be able to articulate.

10 HEARING OFFICER FUNDERBURK: And Mr.  
11 Anderson, I'll note we're -- we're planning to go  
12 till 4:00 today. You've been on the stand about an  
13 hour and a half. Are you fine to proceed, or do  
14 you need a break?

15 THE WITNESS: I'm okay.

16 HEARING OFFICER FUNDERBURK: Thank you.  
17 Please proceed. I'm sorry to interrupt  
18 you.

19 MR. FRIEDMAN: No problem.

20 BY MR. FRIEDMAN:

21 Q. For a tropical depression, what's the wind  
22 speed necessary for it to qualify as one?

23 A. I'm not sure. They don't get nearly as  
24 much attention as hurricanes.

25 Q. Right. So those -- would that -- those be

1 better questions posed to Ms. Mao?

2 A. Yes. Yeah. I would suspect it somewhere,  
3 I don't know, 50, 60 miles an hour. Obviously,  
4 something below that 75-mile-an-hour threshold.

5 Q. Could you go to page 9 in your testimony?

6 A. Okay.

7 Q. Top of the second full paragraph in -- on  
8 that page, where you're discussing the demand surge.  
9 Could you explain what a demand surge is?

10 A. When a major catastrophic event occurs  
11 impacting a single state or multiple states because of  
12 the widespread damage in a localized area, there's  
13 typically a noticeable increase in costs for labor and  
14 supplies because of the increased demand.

15 So this is the law of supply and demand. When  
16 the supply is low and the demand is up, the costs  
17 increase. So that's what this is intended to reflect  
18 is that it's measurable, it's noticeable. There have  
19 been enough historical events to observe the impact of  
20 this increased demand on labor and materials when a  
21 major event occurs.

22 So the model without demand surge would just  
23 reflect the damage done on the insured value of the  
24 home. So if it's a \$100,000 home, it would it would  
25 reflect damage on a \$100,000 home.

1           But if an event were to occur, it may cost X  
2 percentage more than that to actually rebuild or repair  
3 that home because of the increased demand and the lack  
4 of supply in the area.

5           Q.     Is the demand surge in one state  
6 surrounding a hurricane the same as the demand surge in  
7 an adjoining state from the same hurricane entering it?

8           A.     I guess I don't know that for certain, but  
9 I would imagine that it would differ. That's where  
10 damage is more widespread, and there's a greater  
11 increase in demand, the impact of that demand surge  
12 would be greater, again, maybe at the point of landfall  
13 as opposed to 500 miles inland.

14          Q.     And by demand in that context, would that  
15 include simply how many people's homes were there that  
16 got affected?

17          A.     Yes. Which then has a resulting demand on  
18 materials and rebuilding costs and things like that.  
19 But, yes, it's based on the number of homes or policies  
20 affected.

21          Q.     You ever calculated demand surge or  
22 reviewed results from a hurricane model of demand  
23 surge?

24          A.     I have not calculated, but I have reviewed  
25 results from a model that include demand surge.

1 Q. When they calculate demand surges, they  
2 place a percentage on it. Is that fair?

3 A. Yes.

4 Q. Have you ever seen a hurricane model whose  
5 demand surge calculation varied between states?

6 A. No. That adds a layer of complexity and  
7 uncertainty that it kind of goes beyond the purpose of  
8 the hurricane model. You know, the hurricane model is  
9 simulating tens of thousands or 100,000 years, and it  
10 is averaging all this information together.

11 Similarly, the additional costs for demand surge  
12 represents an average across all of the areas that  
13 might be impacted by an event. So, again, to try and  
14 measure and estimate the precision and granularity of  
15 localized demand surge would be exceptionally  
16 difficult.

17 Q. Would you agree that the demand surge, if  
18 you had a -- if you had a hurricane that first hit  
19 Florida and moved up to Alabama, the demand surge could  
20 be different simply because there are fewer people  
21 living in Alabama than Florida?

22 A. It could be different for a variety of  
23 reasons. That could certainly be one of them is the  
24 number of people or the population.

25 Q. Okay. And yet you've never seen a model

1 that differentiated between what the percentage of  
2 demand surge there was in Florida -- this is just a  
3 hypothetical -- versus what it was in Alabama?

4 A. I have not seen that. No.

5 Q. Our demand surge functions in hurricane  
6 models based on actual past historical expenses for  
7 demand surge?

8 A. That's my understanding that the -- that  
9 that component of the model would be based on  
10 historical experience. They would look at the impact  
11 of past events and, yeah, and compare the impact that  
12 additional demand surge on each of those events.

13 Q. So the models, although they are modeling  
14 historical losses without necessarily any data on  
15 actual hurricane losses. First of all, is that your  
16 understanding that what was done here that the  
17 measurement of the hurricane losses was purely modeled?

18 A. Do you mean the measure of the hurricane  
19 losses in the filing?

20 Q. Yes.

21 A. And are you asking if the hurricane loss  
22 component is strictly based on model losses?

23 Q. For the AIR and the RMS that Ms. Mao used,  
24 was that strictly modeled?

25 A. If I'm understanding your question

1 correctly, the or the hurricane loss provision in the  
2 filing is based strictly on modeled losses.

3 Q. Okay. But it is your understanding, as I  
4 understand, from what I take from what you just said,  
5 that even though the hurricane losses are not based on  
6 actual historical hurricane data, the demand surge  
7 function of that same model is based on actual demand  
8 surge prices?

9 A. I believe so because of the ability to  
10 measure the impact of increased demand is -- is  
11 objective. It can be measured. It can even be  
12 monitored over time if that increases or decreases over  
13 time. It's not possible to measure hurricane exposure  
14 looking at a 5-year, 10-year, 20-year time period. I  
15 mean, modelers are simulating, as you probably know,  
16 10,000 or 100,000 years.

17 In that sense, hurricane exposure can't be  
18 measured objectively by looking at historical  
19 experience. There isn't enough historical experience  
20 to measure that. There is enough experience to measure  
21 demand surge.

22 Q. I appreciate that. Thanks so much. Going  
23 on to going to page 10 of your report. About midway  
24 down, you are talking about the other acquisition  
25 expenses.

1 A. Yes.

2 Q. And the second paragraph in that answer  
3 distinguishes between the fixed expenses for homeowners  
4 versus the fixed expenses for tenants and condominium  
5 owners.

6 A. Yes.

7 Q. And the filing sets the fixed expenses for  
8 tenants and condominium unit owners at 50 percent of  
9 the expense to homeowners.

10 A. That's correct.

11 Q. What is that 50 percent calculation based  
12 on?

13 A. ISO would better be able to answer this  
14 question, but I believe it's based on judgment,  
15 informed judgment, knowing and understanding that the  
16 expenses that correspond to tenants and condo are lower  
17 than the expenses corresponding to owners. This were  
18 based on how the data is collected and aggregated. I'm  
19 not sure that the specific level of detail would be  
20 available to quantify this. So this was the Rate  
21 Bureau's best estimate to reflect the fact that the  
22 expenses are different and to develop a reasonable  
23 estimate to do that.

24 Q. Have you ever seen any actual data from  
25 the Rate Bureau reflecting the difference that their

1 members reported or their fixed expenses for tenants  
2 and condos versus their fixed expenses for homeowners?

3 A. I have not seen that data. No.

4 Q. Do you know if they ever asked for it?

5 A. I don't know if they've asked for that.

6 Q. Have you -- you said inform that they have  
7 judgmentally selected 50 percent, and I believe you  
8 said on some informed basis?

9 A. Yes. That's correct.

10 Q. Do you know what that informed basis was?

11 A. Member companies are -- are participating  
12 on all the committees so they can, without disclosing  
13 proprietary information, they can certainly share their  
14 company experience with, again, the relative  
15 differences in things like other acquisition expenses  
16 between forms. They could confirm that there is a  
17 difference or whether there is not a difference between  
18 these.

19 So the Rate Bureau does have access or they have  
20 information from the member companies to assess whether  
21 this is a reasonable assumption. I'm not sure if there  
22 is other specific data that might be available, but  
23 certainly, the discussions at the committee level and  
24 getting assurance or affirmation from the committee  
25 members, from the member companies, is a -- is a good



1       reasonability check on this selection.

2               Q.     So you stated that the Bureau members may  
3       not be able, for proprietary reasons, to share the  
4       actual fixed expenses for tenants and condominiums with  
5       the other members of the -- of the Bureau?

6               A.     Well, at -- at committee meetings, member  
7       companies can't talk about proprietary information. I  
8       mean, they have to be careful about, you know,  
9       antitrust laws and things like that.

10              Q.     Do you know whether North Carolina  
11       homeowners' carriers that are members of the Bureau  
12       actually internally keep data on the actual fixed  
13       expense load for or the actual fixed expenses of  
14       tenants and condominiums policies?

15              A.     I don't know that.

16              Q.     Have you seen in other states' carriers  
17       where you're dealing with a single file or carrier that  
18       have kept that data?

19                      MR. BEVERLY: I'm sorry. A single  
20       what?

21       BY MR. FRIEDMAN:

22              Q.     Well, I guess, I should say for a company  
23       that is filing its own rate request, have you said  
24       that -- you said you've worked on homeowners' filings  
25       for individual companies in other states. Have you

1       seen whether those individual companies internally keep  
2       the data on the fixed expense loads for tenants and  
3       condominium owners versus homeowners?

4           A.       This level of detail in the data isn't  
5       commonly displayed in a rate filing. Oftentimes, the  
6       expense provisions would be reviewed, and they'd be  
7       summarized across all of homeowners, which is what this  
8       filing -- so owners, tenants, and condos would be  
9       combined.

10           So I haven't specifically looked for this  
11       information in other filings. I would suggest that  
12       that's probably a low probability to find it, just  
13       because most companies would keep it at the aggregated  
14       level, but it's -- it's possible that it would be  
15       available.

16           Q.       Do you recall the conclusion in the 2014  
17       order about the 50 percent load for fixed expenses that  
18       the Bureau assigned to tenants and condominiums?

19           A.       I do not recall that. No.

20           Q.       Do you know if there was a time in the  
21       past when the Bureau did not assign a 50 percent fixed  
22       expense load based on judgment but used a different  
23       formula to assign the expense load?

24           A.       No. I'm not aware of that. I might  
25       clarify. All this is doing is allocating the expenses

1 among the three policy forms. So there's like a fixed  
2 bucket of -- of other acquisition expenses, and this is  
3 just allocating it to the policy form.

4 So it's not removing expenses or costs out of  
5 the system or adding some in. It's just the allocation  
6 process. So --

7 Q. But it is affecting the premiums that a  
8 tenants and condo policy -- or policyholder will pay  
9 versus those that a homeowner's policyholder will pay?

10 A. Correct. So it would be reduced because  
11 that's a lower expense load. It would be reducing the  
12 premiums for tenants and condos, maybe possibly a  
13 modest amount, a moderate amount, because they are  
14 lower dollar premiums typically than homeowners.

15 So even a \$10 savings might be more significant  
16 than it would be on a homeowner's policy. There's also  
17 a lot more homeowner's policy -- excuse me, a lot more  
18 owners' policies in the overall owners' book.

19 So the offsetting slightly higher premium for  
20 owners is, I would argue, negligible. So you have very  
21 few policies that are getting the benefit because  
22 tenants and condos are less represented, and the owners  
23 would only have to go up a little bit, so --

24 Q. You'd argue it's negligible, but you also  
25 said that you'd never seen the data split out at that

1 level. Is that correct?

2 A. Well, in the rate filing, it's -- we can  
3 see the effect of this calculation. We could remove  
4 this adjustment and calculate it as a constant other  
5 acquisition expense applied to all of them and see the  
6 impact.

7 Q. What if you took the 50 percent judgmental  
8 call and cut it in half, would that be only a  
9 negligible impact on the premiums paid by tenants and  
10 condo owners?

11 A. What are you cutting in half?

12 Q. The 50 percent fixed expense load, if you  
13 cut that to 0.25.

14 A. So is the -- the relativity 0.25 or is the  
15 relativity back up to 0.75?

16 Q. For the tenants and condos, the -- the  
17 relativity is now 0.25.

18 A. Well, that would further reduce the  
19 expense component for those two policy forms.

20 Q. Right. Would the difference still be only  
21 negligible?

22 A. Well, it's not negligible on those two  
23 policy forms because those are smaller dollar premiums.

24 Q. Okay.

25 A. So again, only, you know, even a 10 or 15

1 or \$20 reduction in their premiums could be a sizable  
2 percentage. If the offset is only a \$2 increase on a  
3 homeowner's policy, if the average homeowner's premium  
4 is \$1,000 that's two-tenths of a percent. So the --  
5 the negligible impact is on the owners.

6 So this is an effective way to allocate the  
7 costs, giving a recognizable benefit to tenants and  
8 condos with a minimal impact on owners.

9 Q. Okay. Thank you. Turning to page 13 of  
10 your report. Actually, let's turn to page 17. You've  
11 already referred to these yourself. But there are two  
12 paragraphs there. I'll just read the questions.

13 Assuming that the provisions for profit, CAR and  
14 NCR or net are reasonable, do you have an opinion  
15 whether the proposed rates reasonably provide the  
16 expected cost for homeowners' insurance in North  
17 Carolina? And you said, yes, if I assume that they are  
18 reasonable.

19 Do you, in fact, consider the calculation of the  
20 profit provision by Dr. Zanjani to be reasonable?

21 A. Yes.

22 Q. Have you ever reviewed any past  
23 Commissioner's orders or North Carolina Courts of  
24 Appeals decisions on the calculation of profit for the  
25 Department's purposes?

1           A.     I'm familiar with, again, that 2014 order  
2     at a -- at a high level. The profit.

3           Q.     What do you recall from that 2014 order  
4     about the Court of Appeals finding on the profit  
5     provision calculations done by Dr. Vander Weide and Dr.  
6     Appel?

7           A.     So the high level recollection is that the  
8     Rate Bureau's profit provision was rejected. I don't  
9     remember the specific arguments or details or points of  
10    contention that led to that conclusion.

11          Q.     And opining that Dr. Zanjani's calculation  
12    is reasonable, did you go back and see whether it  
13    resembled the calculations done by Dr. Vander Weide and  
14    Dr. Appel?

15          A.     I did not make that comparison.

16          Q.     Okay. Did you rely on the advice of the  
17    Bureau's attorneys as to whether Dr. Zanjani's  
18    calculation was in keeping with North Carolina's law?

19          A.     Yes.

20          Q.     Turning to page 14 in your report.

21          A.     Okay.

22          Q.     At the bottom paragraph, you state, for  
23    this filing, the Rate Bureau engaged Aon, one of the  
24    world's largest reinsurance brokers, to develop the  
25    provision for the net cost of reinsurance.

1           It is my understanding that Aon was retained by  
2           the Rate Bureau based on their ability to access  
3           relevant data and experience from the reinsurance  
4           market, their expertise with catastrophe-related  
5           issues, and their prominence in the reinsurance  
6           industry. This is consistent with prior homeowners'  
7           rate filings submitted by the Rate Bureau.

8           Do you know whether Aon, in calculating the net,  
9           actually relied on any experience as in actual net  
10          costs from the reinsurance market?

11          A.     My understanding is that that's not the  
12          way reinsurance is priced. The net cost of reinsurance  
13          is really the end result of the whole process of  
14          purchasing and applying reinsurance and building it  
15          into rates. My understanding is that in Aon's  
16          analysis, they evaluated the prices for reinsurance in  
17          the market.

18          So it's the reinsurance premium is -- was the  
19          starting point, and that was really the focal point was  
20          they identified what a reasonable reinsurance contract  
21          would look like, where would it attach, where would it  
22          exhaust. They have models or techniques that determine  
23          reinsurers split things up into layers.

24          The first layer is \$500 million and then a  
25          billion dollars. They have methods to optimize that,

1 where they will reduce costs as much as possible or  
2 make that process as efficient as possible. But the  
3 starting point is reinsurance premiums.

4 And then the modeled losses that are subtracted  
5 out of that came from a different component of the  
6 filing that came from the modeled hurricane losses.  
7 And the net result then is the net cost of reinsurance.

8 So my understanding is that Aon's focus in doing  
9 their analysis is not on the net cost of reinsurance.  
10 It's on reinsurance premiums and the cost of purchasing  
11 reinsurance in the market.

12 Q. In Aon's data, did you see anything  
13 reflecting the actual price of -- of historical price  
14 of reinsurance premiums?

15 A. No. I did not.

16 Q. Okay. You stated that when you have  
17 calculated re -- or the net costs for, in other states,  
18 for single insurance companies, you have typically  
19 considered that data?

20 A. Yes.

21 Q. And you testified that it is possible for  
22 national homeowners' carriers that are also members of  
23 the Bureau and write homeowners in North Carolina to  
24 allocate their national costs, their national net cost  
25 for reinsurance to North Carolina?



1 A. Could you repeat the beginning portion?

2 Q. Do you recall your testimony an hour ago  
3 that it is possible for a national carrier that also  
4 does business writing home policies in North Carolina,  
5 homeowners' policies, to allocate its national net  
6 costs for reinsurance to North Carolina?

7 A. Yes.

8 Q. And you didn't see any of that data in  
9 Aon's calculation of the net?

10 A. What do you mean by that data?

11 Q. Yeah. The actual allocations -- the  
12 actual allocations of the actual premium price.

13 A. So I mean, that data would be proprietary,  
14 confidential data between Aon and their clients that  
15 can't be disclosed with third parties. That's a --  
16 that's part of the client relationship between Aon and  
17 the companies that they do business with, similar to  
18 Milliman with our clients. That's not my data to  
19 share. It's the client's data. I can't share that.

20 So Aon, legally, as far as the contracts with  
21 their clients, they're obligated, they can't share that  
22 information. If I have access to that information in  
23 reviewing an individual company's reinsurance, it's  
24 because that company has given me that data to use for  
25 an analysis. It's not for me to share. It's for me to

1 do an analysis for them, maybe submit a rate filing for  
2 them, but it's their data and it's their proprietary  
3 information. So these are two very different  
4 scenarios. That's not Aon's data to share.

5 Q. Assuming there were no proprietary  
6 concerns of the insurance companies in sharing their  
7 actual premium experience for the net cost of  
8 reinsurance, would that be helpful information to know  
9 in calculating the net costs for North Carolina?

10 A. That's a very big assumption. But if  
11 there were no proprietary issues, yes. I mean,  
12 additional data would be helpful.

13 Q. Okay. And to be clear, it is the  
14 insurance companies that have deemed it proprietary.

15 A. That would depend on the contracts between  
16 Aon and their -- their clients.

17 Q. Okay. But I think you did testify that --  
18 have you entered into contracts with carriers that say  
19 the -- where the carriers are the ones who define what  
20 is proprietary and what you can't share other than with  
21 them?

22 A. Yes. Yes.

23 MR. FRIEDMAN: So, Your Honor, can I  
24 address the Court briefly?

25 HEARING OFFICER FUNDERBURK: On what?

1 MR. FRIEDMAN: On just the schedule.

2 HEARING OFFICER FUNDERBURK: Proceed.

3 MR. FRIEDMAN: So I'm going to go on  
4 now to the one calculation that Mr. -- not just  
5 ones he opined on, but the actual calculation he  
6 conducted, that is with regard to the contingency  
7 cost or contingency provision. I do not anticipate  
8 that my direct of him will necessarily be done by  
9 4:00, but I will try to put in as much of it as  
10 possible unless the Court has other concerns.

11 HEARING OFFICER FUNDERBURK: Do you  
12 have any response, Mr. Beverly?

13 MR. BEVERLY: No. Your Honor. Onward.

14 HEARING OFFICER FUNDERBURK: Let's move  
15 forward. When we get to 4:00, we'll reevaluate  
16 exactly how much additional time we may need to  
17 take. As we discussed earlier, I am concerned  
18 about timeliness, and making sure that we're  
19 proceeding forward. So please -- please go ahead  
20 and continue.

21 MR. FRIEDMAN: Could I address that  
22 briefly, Your Honor?

23 HEARING OFFICER FUNDERBURK: I think we  
24 need to -- I think we need to finish your witness  
25 testimony.

1 MR. FRIEDMAN: Okay.

2 HEARING OFFICER FUNDERBURK: And then  
3 counsel can discuss the overall schedule, and we'll  
4 get back to that. But if -- I would like you to go  
5 ahead and proceed.

6 MR. FRIEDMAN: Absolutely.

7 BY MR. FRIEDMAN:

8 Q. Could you go to page 12 of your exhibit?  
9 Or, excuse me, your report.

10 A. Okay.

11 Q. So are you basing your calculation of the  
12 contingency provision only on the regulatory or  
13 supposed regulatory delays that you calculated? Or are  
14 you also basing it on the potential for adverse court  
15 decisions, extension of coverage for unforeseen or  
16 unintended exposures, or reduction in filed rate  
17 changes, and unexpected large losses?

18 A. Just to clarify, what's the beginning of  
19 that? Did I base my calculation, or did I base the  
20 contingency provision?

21 Q. Your -- your opinion about a 1 percent  
22 contingency provision being actuarially reasonable?

23 A. My opinion about the 1 percent provision  
24 being reasonable is based on all of those reasons, all  
25 those components.

1 Q. Okay. Can you tell me about any adverse  
2 court decisions in the past ten years that would have  
3 affected the homeowners' carriers in North Carolina?

4 A. No, I cannot.

5 Q. Do you know about any pending lawsuits  
6 that would contribute to a contingency provision?

7 A. No. I cannot.

8 Q. So with regard to reduction in filed rate  
9 changes, are you referring to -- does that include  
10 where the Commissioner has ordered a reduction in the  
11 recommended rate or by -- the recommended rate of the  
12 Bureau?

13 A. Yes. I believe that's wording that comes  
14 out of the ASOP, Actuarial Standard of Practice Number  
15 30. That would be my interpretation of that language  
16 would be similar to yours where the company has  
17 requested a certain rate change and whether it's the  
18 Commissioner or just through the review and approval  
19 process a lower amount is approved or is agreed upon.

20 Q. So the reduction could be due to a  
21 Commissioner's order or a settlement for less than the  
22 requested rate.

23 A. Right. Yes.

24 Q. If it's due to a Commissioner's order, is  
25 the order that the rate that he adopts the legal rate,

1       regardless of whether the -- the Bureau sought a higher  
2       rate?

3             A.       So this ASOP, this terminology applies to  
4       more than just North Carolina. I understand we're  
5       applying it in this instance to North Carolina, but the  
6       concept of reductions and filed rate changes certainly  
7       applies universally across the state. So Commissioner  
8       decisions may or may not even be involved as to a  
9       contributing factor here.

10            Q.       But in North Carolina, specifically, is it  
11       your understanding that if the Commissioner orders a  
12       rate that is less than the requested rate of the  
13       Bureau, then that is the legal rate?

14            A.       I would defer to the lawyers to assign a  
15       legal label on that -- on that decision, whether it's  
16       the legal rate or what other label might be attached to  
17       that.

18            Q.       But that is the maximum that a member of  
19       the Bureau can charge in North Carolina.

20            A.       No.

21            Q.       Well, without regard to --

22            A.       A rate loss.

23            Q.       Yes.

24            A.       Yeah.

25            Q.       Let's just say that whatever the variance

1 in the manual rate, that is the maximum manual rate  
2 that a homeowners' carrier that's a member of the  
3 Bureau can charge in North Carolina.

4 A. That's correct.

5 Q. And if the Bureau enters into a settlement  
6 for less than its requested rate, that is -- that  
7 establishes the maximum manual rate that the members  
8 can charge?

9 A. That's correct.

10 Q. And if the Bureau decides on what the  
11 effective period for that rate will be in its  
12 settlement, that is the effective period that they have  
13 to abide by for the manual rate?

14 A. I believe the effective date in  
15 settlements isn't decided by the Rate Bureau. That  
16 would either be collaborated or the Department of  
17 Insurance would certainly contribute to the settlement  
18 date.

19 Q. Certainly. But what I'm asking is once  
20 it's been entered into, the settlement, that  
21 establishes what the effective period will be for the  
22 manual rates that the Rate Bureau members can charge?

23 A. Yes.

24 Q. And where the Commissioner orders that  
25 the -- there be a particular effective period, that

1 order establishes what the effective period will be for  
2 the manual rates that the members can charge?

3 A. Kind of. I guess I don't consider an  
4 effective period. There's an effective date of the  
5 rate change, and at the time that's decided, we don't  
6 know how long that rate will be in effect for because  
7 we don't know when the next rate change will occur.

8 Q. We don't know when the Bureau will come  
9 back and ask for it.

10 A. Right.

11 Q. Okay. But at the very least then it  
12 establishes the effective date at the front end.

13 A. Yes. So these Commissioner orders and  
14 settlements certainly represent reductions in filed  
15 rates, which are actually added reasons for a  
16 contingency provision because the contingency, again,  
17 is the difference between the estimated cost and the  
18 actual cost.

19 And this reduction in rates, whether it's by  
20 Commissioner's order or settlement that you just asked  
21 about, is exasperating that. It's increasing the  
22 difference between the estimated rate and the actual  
23 cost -- the estimated cost and the actual cost. So  
24 that's actually more of a justification for a  
25 contingency provision.



1 Q. Okay. If the Bureau has entered into a  
2 settlement that establishes the rate, the manual rates,  
3 and the effective date, they sign off on that, why  
4 should they get to come back and ask for more afterward  
5 based on what they didn't get in the settlement?

6 MR. BEVERLY: Objection. There are any  
7 number of reasons, Your Honor, why a settlement  
8 might be reached. I suggest that's an improper  
9 question.

10 MR. FRIEDMAN: He's testified that  
11 the -- that's what is -- that policy or, excuse me,  
12 that factor reflects, and I'm just asking him  
13 whether or not once they've signed off on the  
14 settlement, why should they get to come back and  
15 say, oh, we really wanted more?

16 HEARING OFFICER FUNDERBURK: And can  
17 you explain, Mr. Friedman, how that's in the  
18 purview of an actuary giving an expert opinion on  
19 how to set rates?

20 MR. FRIEDMAN: Well, his testimony is  
21 that the contingency provision allows for the  
22 company to try to recover rates that it didn't  
23 agree to in the settlement or rates above what they  
24 agreed to in the settlement.

25 And what I'm asking him is whether or

1 not they -- once they've agreed in the settlement  
2 that those are the legal rates, why, as a policy  
3 matter or as from an actuarial perspective, they  
4 should be entitled to come back and try to get what  
5 they bargained away?

6 MR. BEVERLY: I'd argue, Your Honor,  
7 that the -- the entire premise mischaracterizes the  
8 testimony. That to suggest that the -- somehow the  
9 Rate Bureau has now agreed that the settled or the  
10 rate agreed upon in settlement is the adequate rate  
11 or the needed rate, that's just wrong.

12 HEARING OFFICER FUNDERBURK: The  
13 objection is sustained, Mr. Friedman.

14 BY MR. FRIEDMAN:

15 Q. Can you tell me if any -- any unexpected  
16 large losses other than hurricanes that occurred in  
17 North Carolina -- for North Carolina homeowners'  
18 carriers in the past five years?

19 A. Not off the top of my head. I would have  
20 to go back and look at actual experience or even news  
21 reports or things like that.

22 Q. So going on to RB-21. This is your  
23 calculation of the purported impact of regulatory delay  
24 on the contingency provision that's requested in this  
25 filing?

1           A.     It's my calculation of the estimated  
2     impact on rates. It provides support for one of the  
3     reasons as to why a contingency provision is needed.

4           Q.     And in order to arrive at this, you  
5     compared so-called regulatory delays among four types  
6     of residential policies. Is that correct?

7           A.     That's correct.

8           Q.     Those four types are Dwelling,  
9     manufactured home or Mobile Home F, Mobile Home C, and  
10    then Homeowners.

11          A.     That's correct.

12          Q.     Okay. Why are the alleged regulatory  
13    delays in Mobile Home C, Mobile Home F, or Dwelling  
14    relevant to the alleged regulatory delays in  
15    Homeowners?

16          A.     Because the general rate review process  
17    and approval process is consistent. It's the same  
18    entity the Rate Bureau that is submitting the filing.  
19    The analyses are very similar between those four  
20    products. So the way the filing is presented to the  
21    Department is very similar. The components of each of  
22    those rate filings are very similar to each other. The  
23    people reviewing the filings are the same.

24                 So all of the facets of the analysis are very,  
25    very similar. It's just a different line of business.

1 So the review process, the questions that might be  
2 raised, they're consistent across all four of the  
3 products. So that's the primary reason that this --  
4 the rate review and approval process is very, very  
5 similar across all these -- all these products.

6 The other is that it increases the sample size.  
7 To make decisions off of one or two observations,  
8 again, as an actuary, the larger the sample size, the  
9 more credible it is, the more confident we are in being  
10 able to make reliable decisions.

11 I didn't -- I'd have to count the homeowners.  
12 If there's only three or four homeowners' filings here,  
13 it's hard to know if that's a trend or just an anomaly  
14 or if it's -- if it's reliable. Here we have 21  
15 observations that we can -- we can make more reliable  
16 estimates or observations than if it's just three or  
17 four filings.

18 Q. So would you agree that the exposures for  
19 MHC are far fewer than those for homeowners?

20 A. By exposures, do you mean, like,  
21 residential properties?

22 Q. I guess I should say policies. Maybe  
23 that's a better term.

24 A. Yes. Mobile home would have fewer  
25 policies than homeowners.

1 Q. Both Mobile Home C and Mobile Home F  
2 forms?

3 A. Yes.

4 Q. It's the same for dwelling?

5 A. Yes.

6 Q. Okay. And the Rate Bureau, in your --  
7 does it, in your experience, ask for different  
8 requested rates for Dwelling, Mobile Home C and Mobile  
9 Home F than it does for Homeowners?

10 A. Did you ask if there's different rates?

11 Q. Different requested rates. When it does  
12 an MHC filing, that requested rate is not necessarily  
13 going to be duplicative of what it requests when it  
14 does on homeowners filing.

15 A. That's correct. Yeah. These are  
16 standalone insurance products and standalone lines of  
17 business that have separate premium calculations, and  
18 the rate -- rate indications and the rate filings are  
19 separate.

20 Q. And in your experience, do the premiums  
21 among Mobile Home C, Mobile Home F, Dwelling, and  
22 Homeowners vary?

23 A. Yes.

24 Q. Significantly?

25 A. Premiums within each of those products

1 vary significantly. I mean, the premiums for  
2 properties are -- depend on a lot of characteristics.  
3 The primary one is probably the value of that dwelling.  
4 I would -- well, it's not a stretch to say that the  
5 average value of a home is very different than the  
6 average value of a mobile home. So, yes, the premiums  
7 vary but as do the underlying characteristics.

8 Q. Are there fewer carriers in North Carolina  
9 writing mobile home policies than writing homeowners'  
10 policies?

11 A. Yes.

12 Q. Are there fewer carriers writing dwelling  
13 policies than are writing homeowners' policies?

14 A. I believe so. Yes.

15 Q. Okay. And are there some -- so by that  
16 token, there are some people, some carriers writing  
17 homeowners' policies that aren't writing mobile home  
18 policies. Is that fair?

19 A. That's correct.

20 Q. Likewise, there are some carriers writing  
21 homeowners' policies that are simply not writing  
22 dwelling policies.

23 A. That's correct.

24 Q. So in light of all those differences in  
25 numbers of policies among these four forms, in premiums

1 charged among these four forms, and in the difference  
2 between what companies are homeowners' writers versus  
3 which ones are writing the other three forms, how can  
4 you say that the experience of mobile homes and  
5 dwelling are reflective of the alleged regulatory delay  
6 for homeowners' carriers?

7 A. Because the -- the review process, the  
8 analysis, the exhibits, the content of the filing is  
9 consistent, just because the numbers are bigger because  
10 it reflects more policies or more homes, the -- the  
11 review process is consistent across all four filings.  
12 It's still just one filing being submitted for each  
13 one.

14 So and with the consistent presentation of the  
15 data from one filing to the next, there should be  
16 consistency, or there could be consistency in the  
17 review process and understanding the way the data is  
18 presented and what have you.

19 So I'm not -- I'm not sure I understand why the  
20 number of policies or homes would affect the review  
21 process.

22 Q. Why should the homeowners' carriers get a  
23 contingency provision based on the regulatory delay for  
24 dwelling and mobile home carriers when those  
25 homeowners' carriers aren't even writing those

1 policies?

2 A. The -- the contingency provision as  
3 implied by the name, it's -- it's a contingent  
4 provision for this difference between the expected and  
5 the actual costs. It's a provision to account for  
6 unknown things that may occur, large losses, judicial  
7 court -- judicial decisions, things that are  
8 unpredictable, they're difficult to quantify.

9 In prior settlements or rate filings or  
10 negotiations with the Rate Bureau and the Department,  
11 it's been mentioned that, you know, there was no  
12 support for the contingency provision. So this was an  
13 attempt to -- we identified that among the list of  
14 reasons that are included in the actuarial standard of  
15 practice, we identified this one can be quantified.

16 So here is the Rate Bureau's attempt to  
17 quantify, to respond to that question or objection that  
18 it's not supported. So we've -- we've done that. The  
19 Rate Bureau has done that. They're quantifying one of  
20 the reasons for the contingency provision to -- to  
21 adjust how we can actually put some numbers around  
22 something that in the past had been unknown. So this  
23 is actually addressing a concern of the Department in  
24 response to questions that they've raised in the past.

25 Q. So I recognize that this is an attempt by



1 the Bureau to quantify some support for the contingency  
2 provision. But you understand the questions I've just  
3 gone through in the past 15 minutes are not about the  
4 fact that y'all tried to quantify it, but rather about  
5 the quality of that quantification. Do you understand  
6 that?

7 A. Yes.

8 Q. Thank you. Now --

9 A. I would note that just visually looking at  
10 this exhibit, if we pared it down to just homeowners,  
11 the indicated impact would increase. So if you would  
12 you know, if -- if there's a preference to focus on  
13 just homeowners, it's going to actually increase the  
14 contingency provision because there's greater  
15 uncertainty, greater delays on homeowners' filings than  
16 the other -- than the other filings. So that adds to  
17 the uncertainty, and it adds to the need for this  
18 provision in the filing.

19 Q. You testified earlier, as well, though,  
20 that you don't go back based on data that isn't  
21 included in your report and recalculate the report. Is  
22 that fair?

23 A. Yes. I'm not suggesting we did that. You  
24 asked about limiting the data to just homeowners.

25 Q. Now, when you say regulatory delay, what

1 do you mean by that term? What are the types of things  
2 that can constitute, in your opinion, regulatory delay?

3 A. Yeah. As an actuary, when we use the term  
4 regulatory, it's really, I would say, almost anything  
5 related to kind of insurance department activities. So  
6 we'll talk about the regulatory environment or the  
7 regulatory requirements.

8 So the regulatory delay is, in this instance, I  
9 would say is any delay associated with once the filing  
10 is in the hands of the insurance department. You know,  
11 whether that is entirely due to the insurance  
12 department processes or whether it's simply the  
13 interaction of the two entities in the filing process.

14 It's -- this is simply the -- the result. We  
15 can observe what has happened in the past. I can't  
16 explain why there's a delay, but it's measurable, and  
17 it's consistent, and it's evident, and it exists. So  
18 we -- we quantified it.

19 Q. Is some of that delay attributable to the  
20 Bureau?

21 A. I don't believe so. The assumed effective  
22 dates, when rate filings are made, in my opinion, have  
23 a significant cushion built into them. They are  
24 projected well beyond an effective date that an  
25 individual company would use.

1           So from my perspective, there is sufficient  
2 cushion, sufficient time for that review and approval  
3 process with the assumed effective date. The fact that  
4 filings can't be resolved until beyond that, it  
5 represents, again, just the -- the North Carolina  
6 regulatory environment.

7           Q.     Okay. So I understand better, when you  
8 are speaking of regulatory delay, you're speaking of  
9 the period between the filing and the resolution. Or  
10 you speak -- also including the time that the Bureau  
11 spends preparing for the filing?

12          A.     It's just the former. It's the delay  
13 occurs once the filing is submitted. And we're not  
14 quantifying the length of time for the review process.  
15 That would be -- well, we're at ten months so far right  
16 now, so it'd be over 300 days right now.

17          This is just between -- the difference between  
18 the assumed effective date, which is well in the future  
19 when the filing is made, and the actual effective date  
20 by the time the filing is settled or approved or -- so  
21 it takes so long to get to that process that even this  
22 generous assumed effective date has to get pushed out  
23 further.

24          I believe the assumed effective date for this  
25 homeowner's filing was 10/1/2024. Well, that was last

1 week.

2 Q. Would the effect of that regulatory delay  
3 be cut down if, say, the hearing officer in this case  
4 ordered that the new rates she were to adopt the  
5 Commissioner was to adopt be trended from the original  
6 requested effective date to the actual one?

7 A. Can you repeat that again?

8 Q. Would your estimates -- are you aware that  
9 in 2014, the Commissioner ordered that, although he had  
10 already -- the hearing was taking place after the  
11 effective date of the filing, in the filing, and  
12 although his order came down after the effective date  
13 in the filing, but nonetheless, the -- all of the  
14 provisions be trended forward until the effective date  
15 that he ordered?

16 A. I was not aware of that.

17 Q. Okay. Would that affect your contingency  
18 provision in term -- just in terms of the effect of  
19 regulatory delay?

20 MR. BEVERLY: I'm sorry. You mean if  
21 that were to be done in connection with this case  
22 when the order is issued?

23 BY MR. FRIEDMAN:

24 Q. In general, where you have a Bureau filing  
25 that has a requested effective date, but it isn't

1 resolved until after that requested effective date. If  
2 the resolution allowed for trending from the requested  
3 effective date to the actual effective date, would  
4 that, at the very least, diminish the effect of  
5 regulatory delay that you've calculated here?

6 A. So that's unprecedented. Again, effective  
7 dates typically aren't changed once a filing is  
8 submitted. I guess what concerns me is if the filing  
9 is already resolved, there is a settled rate change or  
10 an approved rate change that has already been agreed  
11 to. Changing the effective date would change the  
12 indicated rate need. It would not change that resolved  
13 rate change.

14 So if the indication was 20 percent and they --  
15 the Department and the Rate Bureau settled on a 5  
16 percent rate increase, and now if -- if the  
17 Commissioner said we'll go back and change the  
18 effective date, that's going to take the 20 percent  
19 indication and maybe bump it up to 21 percent. Doesn't  
20 change the 5 percent settled rate change. It actually  
21 increases the gap between the required or the indicated  
22 rate need and what was settled.

23 I suppose if that marginal change, going from 20  
24 to 21, that increase the indication by 1 percent, if  
25 that was then applied to the settled rate change, so 5

1 percent was taken up to 6 percent, that would eliminate  
2 this. But this would need to occur before a settlement  
3 or an approval, enters the equation because it changes  
4 the calculations of the rate indication.

5 Q. So assuming that --

6 HEARING OFFICER FUNDERBURK: Please  
7 speak louder or closer to the microphone.

8 BY MR. FRIEDMAN:

9 Q. Assuming that -- let's -- purely  
10 hypothetical, but the Commissioner adopted what he said  
11 was the maximum legal rate, manual rate, that the  
12 Bureau could charge. And he adopted that rate and set  
13 the effective date six months after the requested  
14 effective date, but then ordered that all of the data  
15 supporting the rate that he adopted be trended forward  
16 until his ordered effective date, would that not  
17 eliminate the regulatory delay? Whether or not the  
18 Bureau agreed with the ordered rate, but at least based  
19 on the Commissioner's reasoning, would that not  
20 eliminate the regulatory delay?

21 A. No. I mean, the ordered rate is what it  
22 is. The changing of effective date impacts the  
23 indicated rate need. So the indicated rate need could  
24 move up and down, and the ordered rate is what it is.  
25 So we could include a new year's worth of experience.

1           We could, I don't know, change covered  
2 provisions. We could do all kinds of things to adjust  
3 the numbers, which affects the indication. But if the  
4 ordered rate is a 5 percent increase, it is what it is.

5           So again, if the indication was 20 percent and  
6 Commissioner agrees to 5, the Rate Bureau would say  
7 there's still a 15 percent rate need left on the table.  
8 It would impact the remaining rate need.

9           So the Rate Bureau would theoretically want to  
10 turn around and say, hey, we still have -- we still  
11 need 15 percent more rate. If you add data or change  
12 effective dates, it will adjust that 15 percent that's  
13 left on the table. Maybe it goes up to 18, maybe it  
14 goes down to 12 or -- but it -- it doesn't change the 5  
15 percent. So hopefully that makes sense. This --

16           Q.     No, it does.

17           A.     Yeah.

18           Q.     So, I understand that the Bureau might not  
19 be satisfied with the rate that the Commissioner  
20 ordered. But assuming that that all plays out on  
21 appeal or that they don't appeal it -- let's just say  
22 they don't appeal it -- then at the least under the  
23 Commissioner's reading or holding on the maximum rate,  
24 if he trended it forward based on the data that he  
25 relied on --

1 HEARING OFFICER FUNDERBURK: Mr.  
2 Friedman, I'm not seeing a lot of -- it could just  
3 be me, but I'm not hearing a lot of difference in  
4 the last couple questions that you've asked. If  
5 you could be very careful to make sure that you are  
6 asking for additional information, I would be much  
7 appreciative.

8 BY MR. FRIEDMAN:

9 Q. One last question then on that. The  
10 reason that you say there would still be an impact from  
11 regulatory delay is because the -- if assuming, again,  
12 that the Commissioner trended it based on his findings,  
13 is that the Bureau didn't get what it wants. Is that  
14 correct?

15 A. No. That's not how I would categorize it.

16 Q. How would you characterize it?

17 A. When you say that the Commissioner is  
18 trending something, I'm not sure what that means or how  
19 it impacts the numbers. If the Commissioner would have  
20 otherwise approved a 4 percent increase and then he  
21 trended the numbers, he or she trended the numbers  
22 and -- and came up with a 5 percent rate change that he  
23 agreed to because of a change in the effective date,  
24 that might reduce the need for this.

25 There's still significant rate inadequacy on the



1 table, but the -- the change that would need to occur  
2 to remove the -- to remove this portion of the  
3 contingency provision is that a change in effective  
4 date would have to be reflected in the calculations  
5 that then impacts the decision. If a decision is made  
6 before any changes are made, it -- it -- it just  
7 doesn't affect anything.

8 Q. Could that be worked out after the  
9 decision, so long as he ordered that it be trended?

10 A. It could be. Certainly, it's possible.  
11 Yeah.

12 Q. Okay.

13 A. Changing an effective date is relatively  
14 easy. It would not be a big lift or a big effort.  
15 There are other concerns about wanting to maybe add  
16 additional data, add an additional year of experience  
17 into the analysis.

18 That's incredibly time consuming, incredibly  
19 burdensome that -- I mean the committees would have to  
20 reconvene and reselect trends and go through the whole  
21 process again because you add a year of data and you  
22 drop off an older year of data, it affects the entire  
23 analysis. It affects every single component of it, the  
24 trends, the underlying loss experience, the modeled  
25 hurricanes and net cost of reinsurance.

1           So if you were to expand on this concept and  
2           say, oh, can we just add a new year of data? Again,  
3           that's a whole new filing. It's a whole new analysis,  
4           and we've heard or we've talked about how long that  
5           review process is.

6           You know, if the data was readily available,  
7           it's six to nine months for the Rate Bureau to review  
8           and approve the rate review process. If it means ISO  
9           has to aggregate the data, that's the 12- to 14-month  
10          time frame. Changing an effective date is very quick.

11          Q.       And if it were only the Commissioner's  
12          actuaries who were trending it, that wouldn't be, then,  
13          a delay for the Bureau. It might mean that there was  
14          rate inadequacy, as you call it, but it wouldn't mean  
15          that there was a delay for the Bureau in trying to  
16          accumulate those extra six months of data.

17          A.       Yes. I suspect the Rate Bureau would want  
18          to know what those calculations are and understand  
19          them. So --

20          Q.       I have --

21                   HEARING OFFICER FUNDERBURK: Mr.  
22          Friedman, do you have -- Mr. Friedman, do you have  
23          additional cross?

24                   MR. FRIEDMAN: Yes. I have about one  
25          or two questions.

1 BY MR. FRIEDMAN:

2 Q. Could you turn to RB-18 in Book 1? And  
3 I'm trying to figure out exactly -- that is not your  
4 exhibit. I believe it is Ms. Mao's exhibit. Is that  
5 correct?

6 A. That's correct.

7 Q. Okay. And you've tested that the CAR is  
8 not intended to address assessments per se?

9 A. That's correct. It's not a provision for  
10 expected assessments.

11 Q. On page 5 of that exhibit --

12 A. Yes.

13 Q. -- do you see the columns that states cost  
14 of funding assessments?

15 A. Yes.

16 Q. And then on page 9, do you see another  
17 column including the cost of funding assessments?

18 A. Yes.

19 Q. Okay. So given that those are included in  
20 Ms. Mao's analysis of the CAR, do you still say that  
21 assessments are not, per se, the concentration of the  
22 CAR?

23 A. Correct.

24 Q. Okay. How do you reconcile those?

25 A. So the average assessments or expected

1 assessments is really -- I would consider a subset of  
2 the modeled hurricane losses. And that might sound  
3 unusual but what is likely to trigger assessments would  
4 be a -- maybe a major hurricane event.

5 The modeled hurricane losses are built into the  
6 overall rate indication, determines the overall premium  
7 for the entire industry. A portion of that premium  
8 goes to the Beach Plan and FAIR Plan. It's intended to  
9 cover their share of the modeled hurricane losses.

10 Major event occurs. They run out of surplus.  
11 They need to issue assessments. Those assessments,  
12 again, correspond directly to hurricane losses that are  
13 already built into the rate indication through the  
14 modeled hurricane provision.

15 So assessments, average assessments, expected  
16 assessments, it's already in the filing, as they -- I  
17 mean, it's -- it's -- it's represented by the model  
18 hurricane losses.

19 Member companies get their share of the premium  
20 based on their exposure, their policies. They're  
21 collecting premium that corresponds to the policies  
22 they write. However, if the Beach Plan or FAIR Plan  
23 issues an assessment, the companies cannot recoup a  
24 significant portion of those assessments through some  
25 small portion that they can. They are now responsible

1 for the Beach and FAIR Plan's share of the losses. The  
2 companies collected a premium for their share of the  
3 losses.

4 They did not collect premium for the Beach and  
5 FAIR Plan's share of the losses, but now they are  
6 responsible for that through the assessments.

7 So all the member companies need to hold  
8 additional capital, need to have additional money in  
9 the bank to pay for these potential assessments for  
10 losses attributable to the Beach and FAIR Plans'  
11 premium not corresponding to their premium. Their  
12 premium covers their losses. The Beach and FAIR Plan  
13 premium did not cover all their losses. They ran out  
14 of money.

15 Compensation for assessment risk is the  
16 compensation that's required on the capital that the  
17 companies are holding to cover these potential  
18 assessments.

19 Pick a member company. They have to hold  
20 additional money in the bank because they may get an  
21 assessment that they cannot recoup from the -- the  
22 policyholders. If they have more money in the bank to  
23 cover the assessments of the Beach and FAIR Plan. Dr.  
24 Zanjani testified on the cost of capital to have more  
25 money in that in capital and surplus has a cost

1 associated with that, and that's what this is.

2 Q. So the CAR includes the cost of capital  
3 and surplus?

4 A. Trying to think of the best comparison  
5 here. I would maybe compare this to the net cost to  
6 reinsurance in a sense. Hopefully that -- hopefully --  
7 I mean, essentially the insured -- the member companies  
8 are essentially reinsuring the Beach and FAIR Plan for  
9 this portion that could be attributable to assessments.

10 Q. So my question stands. The CAR is based,  
11 in part, on capital and surplus?

12 A. It is, yes. It is based on the need to  
13 hold more capital to cover potential assessments from  
14 the Beach and FAIR Plan. It is not -- the capital that  
15 they're required to hold is not funding their insurance  
16 operations. It's funding somebody else's insurance  
17 operations.

18 Q. And meanwhile, while they're holding that  
19 capital and surplus, is it invested?

20 A. Presumably so. Yes.

21 Q. Two last questions on direct. One --

22 MR. FRIEDMAN: Could I have -- could we  
23 have a five-minute break or a three-minute break  
24 even for me just to talk with --

25 HEARING OFFICER FUNDERBURK: You can

1           have a three-minute break.

2                               (Discussion off the record)

3                               HEARING OFFICER FUNDERBURK: All right.

4           We're back on the record.

5 BY MR. FRIEDMAN:

6           Q.     If the Rate Bureau made a homeowners'  
7     filing that was based on methods that the North  
8     Carolina courts had ruled were unlawful, and if it took  
9     the Department, let's say, ten months, to work out how  
10    they were unlawful or else to arrive at a settlement  
11    that was lower than the request because, in fact, those  
12    methods were unlawful, is that regulatory delay  
13    attributable to the department?

14                           MR. BEVERLY: Object to form. I don't  
15    wish to be heard, Your Honor.

16                           HEARING OFFICER FUNDERBURK: Sustained.

17           Next question.

18 BY MR. FRIEDMAN:

19           Q.     If the Rate Bureau submitted a filing that  
20    were based on incorrect data and it took the Department  
21    ten months to figure out what was incorrect about it  
22    and then negotiate a settlement that reflected the  
23    correct data, would that be regulatory delay  
24    attributable to the Department or the Bureau?

25           A.     In the calculations on RB-21, it's

1 agnostic to what causes the delay. It's just that  
2 there is an observable, measurable delay. I'm not --  
3 the Rate Bureau, I'm not concerned about what's causing  
4 the delay.

5 There's a consistent delay in the regulatory  
6 process here, regardless of who or what causes it, and  
7 -- and that's because it's quantifiable. That's the  
8 basis for this particular component that contributes to  
9 the contingency provision.

10 Q. So under your RB-21, even if the  
11 Department -- excuse me -- even if the Bureau caused  
12 the delay, they should still get a consideration in the  
13 contingency provision for that delay.

14 A. Yes.

15 MR. FRIEDMAN: Thank you. That's all I  
16 have on direct (sic).

17 HEARING OFFICER FUNDERBURK: Thank you.

18 Mr. Beverly, will you have redirect?

19 And I'm also noting what time of day we're at.

20 MR. BEVERLY: Yes, Your Honor. We  
21 anticipate probably 20 minutes, maybe a tad more of  
22 a redirect, so we'll take direction from you. And  
23 we would need to level set, if possible, please,  
24 with Mr. Anderson and -- and our group in order to  
25 start. So I'd build in another 10, 15 minutes to



1           that estimate.

2                           HEARING OFFICER FUNDERBURK:   Okay.   So  
3           it -- it sounds like we're better served by doing  
4           redirect in the morning?

5                           MR. BEVERLY:   I will not oppose that,  
6           Your Honor.

7                           HEARING OFFICER FUNDERBURK:   Any  
8           concerns, Mr. Friedman?   Okay.   Then that's what  
9           our plan will be.   We'll be back in session  
10          promptly at 9:00 a.m. tomorrow morning.   We'll  
11          start with redirect of Mr. Anderson.

12                           Sorry if you have plans to go home  
13          tonight.   Okay.   We'll start promptly at 9:00 a.m.  
14          with redirect of Mr. Anderson, expecting that to  
15          take in the range of 20 to 30 minutes, and then  
16          move on to, I believe, your direct of Ms. Mao.

17                           MR. BEVERLY:   Thank you, Your Honor.

18                           HEARING OFFICER FUNDERBURK:   All right.  
19          Thank you.   We're in recess.

20                           MR. FRIEDMAN:   Your Honor, would you  
21          like to address on the record the issue of  
22          scheduling or timing?   The time -- you expressed  
23          some concerns about the time it is taking.

24                           HEARING OFFICER FUNDERBURK:   Not -- not  
25          at this time.   I'm mindful that we have said we

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would be gone at 4:00 today, and people may have family commitments that they need to attend to.

MR. FRIEDMAN: Oh, sure. Sure. So we need to speak about --

HEARING OFFICER FUNDERBURK: I want to get -- we'll -- we'll speak about that potentially tomorrow or Thursday.

MR. FRIEDMAN: Can I just understand, so I'm prepared to address, were you speaking about the timing as in getting out at 4:00 or the timing generally of the number of days it may take?

HEARING OFFICER FUNDERBURK: The timing generally of the days that it may take. We're in recess. Thank you.

\* \* \* \* \*

(Hearing adjourned at 4:21 p.m.)

CERTIFICATE OF REPORTER  
STATE OF NORTH CAROLINA  
COUNTY OF WAKE

I, Wendy Sawyer, court reporter, do hereby certify that the witnesses whose testimony appears in the foregoing hearing were duly sworn; that the testimony of said witnesses was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this hearing was taken, and further that I am not a relative or employee of any attorney or counsel employed by the parties thereto, nor financially or otherwise interested in the outcome of the action.

This, the 8th day of October, 2024.



WENDY SAWYER, Court Reporter

Notary Public #202411500157

Commission Expires April 23, 2029