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MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA PUBLIC INSURANCE COMPANY
GENERAL RATE APPLICATION
FOR 2009/10 INSURANCE YEAR

Before Board Panel:

Graham Lane - Board Chairman
Eric Jorgensen - Board Member
Alain Molgat - Board Member

HELD AT:

Public Utilities Board
400, 330 Portage Avenue
Winnipeg, Manitoba
September 30th, 2008

Pages 887 to 1105

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1 --- Upon commencing at 9:07 a.m.

2

3 THE CHAIRPERSON: Okay. Good morning
4 again, everyone. We are interrupting the cross-
5 examination of the panel by Mr. Oakes by a witness from
6 Aon.

7 Mr. Saranchuk, did you just want to
8 introduce the concept.

9 MR. WALTER SARANCHUK: Yes, well, Mr.
10 Bell is being produced at the request of the Board for
11 cross-examination purposes, and essentially he will be
12 asked some questions in direct examination by counsel for
13 MPI, Mr. McCulloch, and be introduced to review his
14 qualifications as an expert in his field.

15 And then, as I say, we'll have some
16 questions in cross-examination on behalf of the Board,
17 followed by cross-examination by the other participants
18 and Intervenors, in accordance with the list that we have
19 and the procedural outline.

20 THE CHAIRPERSON: Thank you, Mr.
21 Saranchuk. Mr. McCulloch, do you want to introduce Mr.
22 Bell and begin the process?

23 MR. KEVIN MCCULLOCH: Yes, Mr. Chairman,
24 perhaps we should have him sworn as a witness first.

25 THE CHAIRPERSON: Mr. Gaudreau...?

1 JEREMY BELL, Sworn

2

3 THE CHAIRPERSON: Welcome, Mr. Bell.

4 MR. KEVIN MCCULLOCH: Mr. -- Mr.

5 Chairman, the first step would be to file, as MPI Exhibit
6 Number 14, Mr. Bell's curriculum vitae.

7

8 --- EXHIBIT NO. MPI-14: Jeremy Bell's curriculum
9 vitae

10

11 THE CHAIRPERSON: Mr. Bell, you come
12 before us at a time of considerable interest in the stock
13 market and security matters.

14

15 (BRIEF PAUSE)

16

17 THE CHAIRPERSON: Thank you, Mr.
18 McCulloch.

19

20 (VOIR DIRE COMMENCES)

21

22 EXAMINATION-IN-CHIEF BY MR. KEVIN MCCULLOCH:

23 MR. KEVIN MCCULLOCH: Thank you, Mr.
24 Chairman. Now, Mr. Bell, I understand that you are a
25 senior consultant with Aon Consulting in Vancouver?

1 MR. JEREMY BELL: Yes.

2 MR. KEVIN MCCULLOCH: How long have you
3 held that position?

4 MR. JEREMY BELL: Three (3) years.

5 MR. KEVIN MCCULLOCH: And I understand
6 that from an educational background point of view you
7 have a Bachelor of Science in Honours Mathematics from
8 the University of Victoria?

9 MR. JEREMY BELL: That's correct.

10 MR. KEVIN MCCULLOCH: I also understand
11 that you are a Chartered Financial Analyst Charter
12 Holder, is that correct?

13 MR. JEREMY BELL: That's correct.

14 MR. KEVIN MCCULLOCH: And when did you
15 attain that designation?

16 MR. JEREMY BELL: 2004 or '05.

17 MR. KEVIN MCCULLOCH: You are also a
18 Fellow of the Society of Actuaries and the Canadian
19 Institute of Actuaries?

20 MR. JEREMY BELL: Correct.

21 MR. KEVIN MCCULLOCH: And when did you
22 attain that designation?

23 MR. JEREMY BELL: 2005.

24 MR. KEVIN MCCULLOCH: Now in your
25 capacity as a senior consultant for Aon Consulting, I

1 understand that you have participated in a number of
2 asset liability allocation studies.

3 Is that correct?

4 MR. JEREMY BELL: That's correct.

5 MR. KEVIN MCCULLOCH: Your resume
6 indicates approximately twenty (20) such studies.

7 MR. JEREMY BELL: That -- that's about
8 right, yeah.

9 MR. KEVIN MCCULLOCH: And over what
10 period of time would you have been involved in those
11 studies?

12 MR. JEREMY BELL: Since joining Aon, so
13 three (3) years.

14 MR. KEVIN MCCULLOCH: And can you give us
15 a -- a brief explanation as to what the purpose is and --
16 and how a asset liability modelling study works?

17 MR. JEREMY BELL: Sure. The purpose
18 varies by a client so it's not as easy as a single
19 purpose. But largely most studies are the same as MPI's,
20 which is establishing a strategic asset mix that's
21 appropriate for the company's or the entity's objectives.
22 So setting a mix that maximizes reward and risk relative
23 to what each organization considers to be reward and
24 risk.

25 MR. KEVIN MCCULLOCH: Mr. Chairman,

1 based on Mr. Bell's academic standing and his experience
2 in the field, I would ask that the Board certify him as
3 an expert in the topic to which he'll be giving evidence,
4 the asset liability study.

5 THE CHAIRPERSON: Do any of the other
6 parties have a view?

7 MR. BYRON WILLIAMS: We take no issue
8 with his qualifications.

9 THE CHAIRPERSON: We accept Mr. Bell.
10 Thank you.

11 MR. KEVIN MCCULLOCH: Thank you, Mr.
12 Chair.

13

14 (VOIR DIRE CONCLUDES)

15

16 EXAMINATION-IN-CHIEF BY MR. KEVIN MCCULLOCH:

17 MR. KEVIN MCCULLOCH: Now, Mr. Bell, you
18 were involved in the asset liability modelling study that
19 has been produced in these proceedings as part of Exhibit
20 AI-11.

21 Is that correct?

22 MR. JEREMY BELL: That's correct.

23 MR. KEVIN MCCULLOCH: Can you tell me
24 first of all, Aon Consulting responded to an RFP with
25 respect to this study, did they?

1 MR. JEREMY BELL: Yes.

2 MR. KEVIN MCCULLOCH: Were you involved
3 in the preparation of the response to the RFP?

4 MR. JEREMY BELL: I was.

5 MR. KEVIN MCCULLOCH: And when the job
6 was awarded to Aon, you and others from your firm were
7 involved in this study I presume?

8 MR. JEREMY BELL: Correct. There were
9 maybe five (5) people in a total that were involved in
10 the study.

11 MR. KEVIN MCCULLOCH: And can you tell
12 the Board what your role was in connection with this
13 study?

14 MR. JEREMY BELL: I was the main
15 consultant on actually doing it, so authoring the study
16 itself, liaising with our modellers and liaising with MPI
17 to make sure that everyone was doing the right thing.

18 MR. KEVIN MCCULLOCH: And at the
19 conclusion of the study when the report was issued, was
20 it your role to review and approve that report?

21 MR. JEREMY BELL: Well I authored the
22 report. It was reviewed and approved by another
23 colleague.

24 MR. KEVIN MCCULLOCH: Now you've
25 mentioned that studies of this nature involve modelling.

1 Can you give us an explanation as to what you mean by
2 that.

3 MR. JEREMY BELL: Yeah. Modelling in
4 that context -- it kind of varies by study, but -- but in
5 -- in this study, modelling is going to be projection --
6 projecting out the liabilities into the future, relying
7 rel -- relatively heavily on MPI's internal actuary for
8 liability figures, and projecting out assets that match
9 up with the liabilities and linking them together. It's
10 going to be setting asset mix assumptions and -- and
11 determining certain variables that are of interest into
12 the future. And those are the variables that are
13 projected in the report.

14 So that's largely what we mean by
15 modelling and then using that information to make
16 decisions.

17 MR. KEVIN MCCULLOCH: Now you mentioned
18 that there are a number of assumptions that come into
19 play when you're doing a study such as this.

20 What sort of assumptions are you talking
21 about?

22 MR. JEREMY BELL: The main assumptions
23 would be asset class returns, asset class standard
24 deviations in the future, correlations of asset classes -
25 - class returns with each other. There would be some

1 assumptions on liabilities and how they're going to be
2 growing, but that's kind of -- was relatively highly
3 linked-up with what the internal MPI actuary was doing.
4 That would be the main set of assumptions. There's other
5 inputs, which would be the objectives of the study, which
6 are set by MPI, but not -- not really assumptions.

7 MR. KEVIN MCCULLOCH: All right, then
8 maybe you can, first of all, explain the role that any
9 client in a study such as this would play in setting
10 objectives for the study.

11 MR. JEREMY BELL: Objectives, the client
12 would typically have 100 percent ability to set them
13 themselves. We tend to, in the initial meetings, feed
14 possibilities of different objectives that the client
15 might have that are reasonable that other clients do,
16 because most clients don't go through asset liability
17 studies all that frequently. But then it's ultimately
18 the client's responsibility to say what really matters to
19 our organization.

20 So MPI would have had 100 percent
21 responsibility for the objectives of the study.

22 MR. KEVIN MCCULLOCH: So is it fair to
23 say that the role that MPI played in setting the
24 objectives for this study is typical to other studies
25 that you've performed?

1 MR. JEREMY BELL: Yes.

2 MR. KEVIN MCCULLOCH: What about
3 assumptions? Was there any role that MPI played in
4 setting, or giving direction, with respect to assumptions
5 that were to be applied?

6 MR. JEREMY BELL: Limited role, and there
7 was some back and forth on some small assumptions. Our
8 normal protocol is we typically develop a recommended
9 list of assumptions on asset classes, which is the large
10 driver of what the -- the results are going to be, and
11 give it to the client.

12 MPI would then have the ability to comment
13 on it and provide some guidance to the extent that we
14 thought that guidance was reasonable. My recollection,
15 it was -- the guidance was fairly limited and fairly
16 typical of any other kind of client.

17 MR. KEVIN MCCULLOCH: As an example, I
18 understand that you may have been given some direction on
19 assumptions from MPI, with respect to emerging markets.

20 Is that correct?

21 MR. JEREMY BELL: Yeah, I -- well I -- I'd
22 say -- I would typically call that maybe a little bit of
23 a different thing than assumptions. I would call the
24 emerging market direction -- the -- the model is just not
25 possible if you're going to be modelling every single

1 asset class in the world, so you need to sort of frame it
2 in which -- which asset classes you want to even start
3 with.

4 So it wasn't an assumption that we got
5 from MPI; it was, Don't include this asset class because
6 it's not a realistic thing that we're going to implement.

7 MR. KEVIN MCCULLOCH: And in -- in round
8 terms, approximately how long did it take you to complete
9 this report?

10 MR. JEREMY BELL: From beginning the
11 whole process, like setting the assumptions, that would
12 be five (5) months -- four (4) to six (6) months, I'd
13 say.

14 MR. KEVIN MCCULLOCH: And at the end of
15 this study, you came forward with two (2) recommended
16 portfolios.

17 Is that correct?

18 MR. JEREMY BELL: That's correct.

19 MR. KEVIN MCCULLOCH: And those were
20 Portfolios Number 5 and Number 10.

21 MR. JEREMY BELL: They are but -- I guess
22 they're from Portfolio 5 and 10 from different graphs, so
23 it's a little confusing to say that but they're in the
24 executive summary of the report.

25 MR. KEVIN MCCULLOCH: And in these record

1 -- or in these recommended portfolios, something called
2 the efficient frontier played a role in these
3 recommendations.

4 Is that correct?

5 MR. JEREMY BELL: That's correct. So
6 each one of those portfolios on its respective graph
7 would have been on the efficient frontier.

8 MR. KEVIN MCCULLOCH: And, again, can you
9 give us a -- a high level description of what the
10 efficient frontier means?

11 MR. JEREMY BELL: The efficient frontier
12 is simply a graph of the optimal portfolios; optimal
13 being that they provide the highest level of reward for a
14 given level of risk, whatever the reward and risk are
15 that are defined in the studies, so the objectives of the
16 study. That means that there's no free lunch. There's
17 no -- there's no portfolio that you could choose that's
18 gonna give you more reward without taking on more risk.

19 So that's why we call it optimal.

20 MR. KEVIN MCCULLOCH: Now I understand
21 and there's been evidence before these proceedings, or in
22 these proceedings, that MPI, at the conclusion of the
23 study, selected a modified Portfolio Number 11 as the
24 portfolio that they wish to proceed with.

25 Is that correct?

1 MR. JEREMY BELL: That's correct.

2 MR. KEVIN MCCULLOCH: And at page 70,
3 there's a graph -- this is page 70 of -- of your report -
4 - a graph showing modified Portfolio Number 11, sort of
5 in the -- in the middle of the graph there, just slightly
6 below the efficient frontier.

7 Is that correct?

8 MR. JEREMY BELL: That's correct.

9 MR. KEVIN MCCULLOCH: Can you provide the
10 Board with your opinion as to the appropriateness of
11 MPI's choice of modified Portfolio Number 11.

12 MR. JEREMY BELL: Sure. I'd say first,
13 it's relatively typical that clients don't choose an
14 exact portfolio that is on the efficient frontier, so
15 that it's not on the efficient frontier isn't
16 particularly troublesome to me. That it's relatively
17 close to the efficient frontier tells me that MPI
18 accepted the spirit of the modelling and moved towards
19 the efficient frontier.

20 But there were some questions, which all
21 clients have when you're ultimately implementing a
22 portfolio. There's practical considerations of what you
23 want to do. They're -- you're starting from a position
24 then going to a position; whether you want to go that
25 entire way is an open question. As far as the frontier

1 goes, choosing something that's relatively close is
2 fairly typical.

3 I don't know if you want me to get into
4 all of the asset class decisions.

5 MR. KEVIN MCCULLOCH: Again, without
6 getting into too much detail because it -- the report, I
7 think, contains that detail, but if you want to make some
8 of -- or some observations on the asset classes that MPI
9 included in its modified Portfolio Number 11, that would
10 be fine.

11 MR. JEREMY BELL: I'd say the only thing
12 that would stick out to me is -- somewhat questionable
13 would be --not -- not questionable, but I would have
14 preferred to have seen is -- is not leaving 30 percent of
15 the assets in Universe Bonds, moving towards longer-term
16 bonds. That decision to me is -- mitigates risk; it
17 makes your portfolio move closer to what your liabilities
18 are going to move like.

19 So it's not a tactical decision to add
20 value; it's a decision to take some risk off the table
21 if you move more of your -- your assets towards longer-
22 term bonds. But other than that, I don't think there's
23 anything that was particularly noteworthy, from my
24 perspective.

25 MR. KEVIN MCCULLOCH: Well, then perhaps

1 I can direct you to some asset classes that aren't
2 included in modified Portfolio Number 11.

3 The first one being real return bonds.

4 Can you provide some observations on the fact that this
5 portfolio does not include Real Return Bonds?

6 MR. JEREMY BELL: Yeah. Real Return
7 Bonds are sensitive to a couple of things: changes in
8 inflation and changes in interest rates. They're also
9 priced at a level so the yield that's offered in Real
10 Return Bonds is at a level where inflation needs to be
11 relatively high.

12 It needed to be fairly high before it's
13 even priced a bit more expensive -- now inflation has to
14 be rather high today if you're investing in Real Return
15 Bonds to make them pay off relative to nominal bonds
16 which would be Universe Bonds or Long-Term Bonds.

17 As well I -- I guess I'd note, real estate
18 has a fairly good link to inflation so you're getting
19 some inflation protection. Infrastructure is similar to
20 real estate in inflation protection. And equities to
21 some extent have inflation protection built into them.
22 So I wouldn't say that there's an abandonment of
23 protection for inflation.

24 The other thing that's a bit imperfect
25 about Real Return Bonds is you can't -- you don't really

1 have the ability to get any return beyond what the
2 Government of Canada will give you. Where nominal bonds
3 if you invest in them you can get a return based on
4 investing in corporate, so are Provincial bonds. I --
5 both of those give you a premium over the Government of
6 Canada bonds.

7 So if you compare the like Government of
8 Canada's to the like Real Return Bonds, perhaps Real
9 Return may be slightly more attractive.

10 I'm not saying it would show up here, but
11 if you compare like -- or if you compare the Real Return
12 Bond option which is just Government of Canada versus the
13 ability to invest in provincial bonds, which will give
14 you a yield pickup, and corporate bonds, which will give
15 you a yield pickup, it makes them further -- a little bit
16 less attractive.

17 MR. KEVIN MCCULLOCH: So am I correct in
18 saying that as a result of this study, you support the
19 position not to become involved in Real Return Bonds?

20 MR. JEREMY BELL: That's correct.

21 MR. KEVIN MCCULLOCH: There's also been
22 an observation that the portfolio, modified Portfolio
23 Number 11 doesn't include any investment in BRIC which I
24 understand stands for Brazil, Russia, India and China, is
25 that correct?

1 MR. JEREMY BELL: That's correct.

2 MR. KEVIN MCCULLOCH: And what sort of
3 investments are we talking about in the BRIC market?

4 MR. JEREMY BELL: Well, your only BRIC
5 investment you end up doing would be a -- or generally be
6 an equity investment. My -- my comments on that would be
7 I've never seen an institution portfolio that has a
8 specific allocation to BRIC; You'd more often see an
9 allocation to international equities or to emerging
10 market equities, not to BRIC as its own sub area. And
11 the thought at the beginning was there wasn't much of an
12 appetite for -- for emerging market equities.

13 You'd start to get -- if you -- if you
14 started to add all these different equity classes then
15 you start to get relatively small allocations. It's
16 already -- foreign equities are fairly small, so to
17 fragment it one (1) step further might not really change
18 the results of MPI that much and may just be more of a
19 hassle than -- than what you get out of it.

20 MR. KEVIN MCCULLOCH: I'd also like to
21 direct your attention, Mr. Bell, to page 12 of your
22 report, and in specifics I'm referring to the second
23 bullet on that page where there's a discussion about the
24 role of the RSR.

25 And could you provide some comment first

1 of all as -- as to where this observation comes from and
2 -- and what it means.

3 MR. JEREMY BELL: Sure. I -- well the
4 observation comes from a chart in the -- in the appendix.
5 I -- I don't know if I need to take everyone through it.

6 But one (1) of the charts in the appendix
7 led us to the conclusion that there was going to be a --
8 an adjustment to the premiums, either a refund or an
9 increase in premiums, in about 60 or 70 percent of the
10 years applying the RSR band. So the comment came
11 directly from that, which is the RSR band, although it --
12 it keeps retained earnings in a certain tight band,
13 doesn't necessarily stabilize the rates.

14 And so it was just an observation from
15 that graph.

16 MR. KEVIN MCCULLOCH: Thank you, Mr.
17 Bell, those are all the questions that -- that I have.

18 THE CHAIRPERSON: Thank you, Mr.
19 McCulloch. We'll move now to Mr. Saranchuk.

20

21 CROSS-EXAMINATION BY MR. WALTER SARANCHUK:

22 MR. WALTER SARANCHUK: Thank you, sir.
23 Now, Mr. Bell, just generally, when was Aon engaged to
24 undertake this study, approximately?

25 MR. JEREMY BELL: Let's call it mid-

1 September. About mid-September. The initial meeting
2 was, I think, the last couple of days of September, so
3 about a year ago today.

4 MR. WALTER SARANCHUK: September, 2007,
5 then?

6 MR. JEREMY BELL: Yes.

7 MR. WALTER SARANCHUK: All right. And it
8 was completed, I see -- that it's dated, in any event, on
9 March 16th, 2008.

10 MR. JEREMY BELL: Correct.

11 MR. WALTER SARANCHUK: Now, when it was
12 submitted for approval by your colleague after you
13 authored it?

14 MR. JEREMY BELL: Various times. There
15 was about five (5) iterations of the -- of the report.
16 I'd say the last version of the report had very limited
17 changes. The main -- the main reviews came in January
18 when the meat of the report was given and there was a
19 presentation to the Board at the end of January of the
20 final draft report. That --

21 MR. WALTER SARANCHUK: Sorry, did you
22 say, "when the meat of the report was given"? Or what
23 did you say there? I'm sorry, I didn't catch that.

24 MR. JEREMY BELL: Well --

25 MR. WALTER SARANCHUK: In January, when--

1 MR. JEREMY BELL: In January -- almost
2 the entire report was written effectively in January, So
3 that's when almost all of the reviews went from -- from
4 our colleagues.

5 MR. WALTER SARANCHUK: All right. And so
6 we're talking approximately a six (6) month period of
7 time over which the report was being prepared.

8 Is that correct?

9 MR. JEREMY BELL: That's correct.

10 MR. WALTER SARANCHUK: And you indicated
11 you were the main consultant, in respect of this
12 particular engagement?

13 MR. JEREMY BELL: I was the main doer. I
14 authored and -- and dealt with MPI directly. So, I mean,
15 we don't really have a term for main consultant but I
16 would have been, more than the majority of the time, the
17 person to talk to the different parties and write the
18 report.

19 MR. WALTER SARANCHUK: And you had -- did
20 you say four (4) or five (5) others within your company
21 that were also working on this with you?

22 MR. JEREMY BELL: Yes.

23 MR. WALTER SARANCHUK: And I think you
24 indicated in your evidence on direct examination that you
25 were liaising with MPI and these other individuals.

1 MR. JEREMY BELL: Correct.

2 MR. WALTER SARANCHUK: And you say,
3 however, at the end of the day, you personally were
4 responsible as the author of the report.

5 Is that correct?

6 MR. JEREMY BELL: Yeah. I -- I'm -- I'm
7 responsible but with peer view standards, the person that
8 reviews it accepts some responsibility and provides some
9 guidance. So it's not 100 percent responsibility but,
10 you know, I take responsibility for the report.

11 MR. WALTER SARANCHUK: Who is this other
12 individual? Is he within Aon?

13 MR. JEREMY BELL: He is. Brendan George
14 will be the main reviewer of the report.

15 MR. WALTER SARANCHUK: And what are his
16 qualifications compared to yours, generally? Why would
17 he have the input that he did?

18 MR. JEREMY BELL: He is senior to me.
19 He's in charge of our retirement practice area in Aon --
20 in our central west area, which is the consulting on
21 liabilities, largely to pension plans. He used to be the
22 head of our investment consulting practice up in --
23 nationally, up until late last year. And he consults on
24 investment issues and has been doing it for fifteen (15)
25 years.

1 MR. WALTER SARANCHUK: So is it correct
2 to say that the views expressed in the report essentially
3 are yours though?

4 MR. JEREMY BELL: I'm going to say I
5 agree with them, but they are Aon's views. They've all
6 been peer reviewed by my colleagues -- or my colleague
7 peer reviewed directly and my colleagues, over time, as
8 we've developed intellectual capital in the area.

9 MR. WALTER SARANCHUK: Did MPI or its
10 internal investment committee working group have any
11 input into the drafting of the final report?

12 MR. JEREMY BELL: Yes, we sent them
13 reports and they provided us with comments but I'd say
14 limited.

15 MR. WALTER SARANCHUK: So can we say that
16 the final product was still and nonetheless your document
17 or was it a -- a consensus, so to speak, with MPI?

18 MR. JEREMY BELL: Absolutely my document
19 and I'm comfortable with it.

20 MR. WALTER SARANCHUK: My Learned Friend,
21 Mr. McCulloch, reviewed with you some of the -- the
22 information contained on page 12 of the report. You just
23 might want to take a look at that. And, in particular,
24 I'm looking at the second bullet that he drew your
25 attention to, where it states, quote:

1 "It is worth noting that the RSR rules
2 as currently drafted serve largely to
3 stabilize the retained earnings rather
4 than stabilizing the rates paid by the
5 policyholders [bracket] (where rates
6 are considered to be Basic rates,
7 surplus distributions, and additional
8 premiums) [end of bracket, period]."

9 Then it says:

10 "Annual application of the [then it's
11 again a quote]. Annual application of
12 the RSR rules [bracket] (rather than a
13 longer period such as three (3) years)
14 [end of bracket], and a very tight RSR
15 band relative to the size of the
16 portfolio, will result in rather
17 unstable rates paid by [bracket] (or
18 refunded to) [end of bracket]
19 policyholders [period]." End of quote.

20 What is actually meant by that particular
21 paragraph, sir?

22 MR. JEREMY BELL: Well, one (1) of -- one
23 of the original objectives of the study, which wasn't now
24 part of the report, was to stabilize the premiums paid.
25 And so in looking at what the premiums paid were and

1 considering the premiums paid being Basic premiums plus
2 adjusting it for surplus distributions and adjusting it
3 for increase in premiums, it was -- it's simply a comment
4 that there's something like that that's going to be
5 happening in two-thirds (2/3s) of the years, so the
6 observation is simply that the rate stabilization reserve
7 from the modelling perspective doesn't necessarily serve
8 us to stabilize those rates, as well as I might consider
9 with some other different types of margins I've seen with
10 different institutional clients.

11 MR. WALTER SARANCHUK: Were you aware,
12 sir, that the rebates that had been issued in the past
13 two (2) years had been done separate of rates and that
14 rates -- that the rates have not been adjusted?

15 MR. JEREMY BELL: No, I was considering
16 when I was writing that rebates -- I mean sort of
17 ignoring the larger context of them that money paid to
18 and from -- or money paid from policyholders to the
19 company were -- the net money that the company got from
20 them was rates, whether -- I mean whether they were
21 called rates or not, when they're paid rebates or -- I
22 wasn't considering.

23 MR. WALTER SARANCHUK: Are you aware that
24 the rate levels had not changed?

25 MR. JEREMY BELL: Not explicitly, no.

1 MR. WALTER SARANCHUK: Can you indicate
2 why you did define rates to include rebates; that is the
3 surplus distributions and your discussion on rate
4 volatility?

5 MR. JEREMY BELL: If I were an
6 individual, that's how I'd consider rates to be. It's my
7 observation based on the net amount of money that I would
8 pay to the company, that that net amount of money that --
9 paid to the company, so what I paid out versus what I got
10 back, so the net amount would be a fairly volatile number
11 -- or not -- not volatile, but would change fairly
12 frequently.

13 MR. WALTER SARANCHUK: You say you would
14 take that position as an individual, but in your position
15 as an expert do you take that position?

16 MR. JEREMY BELL: Well, I think I'm using
17 rates in a different way than you're using rates. The
18 way I've written rates in the report it's obviously not
19 the way you're using -- using rates. So I mean I think
20 we're talking about two (2) different things.

21 MR. WALTER SARANCHUK: Did MPI bring to
22 your attention that there had been no change in rate
23 levels?

24 MR. JEREMY BELL: We would have had the
25 right rate levels in -- in the report and in the

1 modelling. They didn't, on seeing that comment, say
2 there was no change in rate levels and I think that the
3 qualifications where I'm stating what I consider -- would
4 consider rates to be wouldn't have made them take
5 immediate offence to it.

6 MR. WALTER SARANCHUK: In the agreement
7 that you'd entered into with the Corporation to provide
8 services that you did, sir, at page 3 -- I don't know if
9 you have to refer to this -- but in Section 2.05 called
10 "Report Review," I can quote to you for the record what
11 it says. Quote:

12 "Prior to submitting the written report
13 to Manitoba Public Insurance's
14 investment committee, key members of
15 the vendor's staff shall be required to
16 review the proposed asset liability
17 study with personnel from Manitoba
18 Public Insurance. Subsequent to this
19 review, the vendor shall make such
20 changes as are directed by Manitoba
21 Public Insurance. The final version of
22 the report shall be delivered to
23 Manitoba Public Insurance no later than
24 December 31st, 2007." End of quote.

25 And of course the vendor is Aon Consulting

1 Inc., isn't it?

2 MR. JEREMY BELL: That's right.

3 MR. WALTER SARANCHUK: And just in terms
4 of that understanding that the vendor shall make such
5 changes as are directed by MPI, is that common in -- the
6 request for these kind of reports and studies? At least
7 in the ones that you've undertaken.

8 MR. JEREMY BELL: I'd say no, but --
9 yeah, I'd say no.

10 MR. WALTER SARANCHUK: But you of course
11 were prepared to live with it.

12 MR. JEREMY BELL: We would have put
13 qualifications in if there was something that we weren't
14 prepared -- prepared to live with but -- in the reports -
15 - but we would have accepted feedback from MPI.

16 MR. WALTER SARANCHUK: So you weren't
17 concerned about perception, that perhaps someone might
18 say, Well wait a second, this isn't Aon's study, this is
19 Aon's study to accommodate MPI?

20 MR. JEREMY BELL: I would say I wasn't
21 concerned with that particular part of the contract. The
22 way that the discussion goes with any client is that it's
23 always collaborative, but the -- the report is ultimately
24 ours and we're not going to sign or submit anything we're
25 not comfortable with.

1 So I wasn't particularly concerned that
2 this mandate would turn out with us being asked to do
3 something that we wouldn't have done, because it -- had
4 it reached that point, there would be some other
5 resolution to the problem because it -- we're not going
6 to sign it -- MPI's report.

7 MR. WALTER SARANCHUK: And at the end of
8 the day of course, MPI adopted something other than what
9 you had recommended.

10 MR. JEREMY BELL: Correct.

11 MR. WALTER SARANCHUK: And you're
12 prepared to sign-off on that as being something that's
13 acceptable, according to your study.

14 MR. JEREMY BELL: Yeah, I'd say it's
15 reasonable. I'd prepare long bonds obviously like I've
16 stated, but otherwise modelling is fairly sensitive to
17 inputs and I don't think relying on modelling as the
18 gospel makes sense. MPI, like all clients, I recommend
19 that they use the modelling as directional and make
20 decisions in that way. And most directions that they
21 went were fairly consistent with what we'd said so, I'm
22 comfortable with the direction they're going.

23 MR. WALTER SARANCHUK: Of course, what
24 they did accept was Portfolio Number 11, is that correct?

25 MR. JEREMY BELL: They accepted a

1 modified version of Portfolio 11.

2 MR. WALTER SARANCHUK: All right. And in
3 retrospect, do you think that perhaps Aon should have had
4 some qualifications included in the study, by reason of
5 that fact?

6 MR. JEREMY BELL: Well our study is -- it
7 almost has nothing to do with what they ultimately decide
8 to choose. Our study is -- tried to set what a strategic
9 asset mix would be relative to the modelling. Whether
10 clients use it or to the extent that they use -- accept
11 the modelling is sort of next step. In fact it's a
12 little bit special to have even that -- that last
13 appendix which was put in there at MPI's request to see
14 whether or not that ultimate portfolio made sense.

15 But, I mean, we can't sort of predict what
16 they're going to ultimately choose with -- when they get
17 to their investment working group months later and
18 they're trying to implement the report. So it's advice
19 on what direction to go from us; where they go, I mean, I
20 wouldn't qualify it because it wasn't even confirmed
21 exactly where they were going to ultimately go. This was
22 just a portfolio -- they wanted models they could see
23 whether it was appropriate.

24 MR. WALTER SARANCHUK: Yes. And in your
25 evidence on direct examination, you indicated that you

1 would personally as the consultant have preferred a
2 movement to Long Term Bonds.

3 Is that anywhere in your report?

4 MR. JEREMY BELL: Our recommended
5 portfolio has Long Term Bonds. I didn't comment
6 specifically on my likes or dislikes on the modified
7 Portfolio 11 in the report. That wasn't part of the
8 mandate.

9 MR. WALTER SARANCHUK: I'm having
10 difficulty understanding that. You, in your engagement
11 as the individual who was to provide the ultimate or
12 optimum -- optimal, I guess it is, asset class, didn't
13 feel duty bound as part of your engagement to make some
14 comment in respect of the last choice made by MPI?

15 MR. JEREMY BELL: Well, it wasn't
16 actually technically last choice. They asked me to model
17 that particular portfolio as -- and to see whether --
18 where it showed up relative to the efficient frontier.
19 That I would feel duty bounds to follow everything
20 through to the completion and see exactly where they
21 implemented things? No, that's not typical practice.

22 MR. WALTER SARANCHUK: Okay, sir. On
23 December 14th of last year, as I understand it, Aon
24 provided its first report by way of a PowerPoint
25 presentation where you outlined your suggested portfolio

1 mix as follows:

2 Namely, that the primary goals of the
3 study as set out on the presentation were:

4 1. To maintain retained earnings within
5 the RSR band established by the Public Utilities Board.
6 That was the primary objective.

7 And secondly, to maximize return. In
8 particular, maximized likelihood of attaining a 5 percent
9 return which was the secondary objection.

10 You recall that in your PowerPoint
11 presentation in December?

12 MR. JEREMY BELL: Okay.

13 MR. WALTER SARANCHUK: In the final
14 report, I'm advised and it appears, in any event, on page
15 3 of the executive summary, that there was a change in
16 the goals and -- and I'm just paraphrasing what appears
17 in the second paragraph on page 3 of your report, and
18 that is to (a), minimize the tracking error of the assets
19 relative to the liabilities and (b), maximize returns
20 subject to the reasonable levels of risk.

21 And do you see that, sir?

22 MR. JEREMY BELL: I do.

23 MR. WALTER SARANCHUK: And what was
24 behind those changes?

25 MR. JEREMY BELL: Those were from MPI,

1 based on receiving the initial results. There was a
2 discussion at MPI and it was decided that the assumptions
3 weren't -- or the objectives, sorry, weren't exactly what
4 they had wanted. The ultimate objectives, I think were
5 more catered to -- to prudently managing the company,
6 where the original objectives were -- were within the
7 construct of the PUB order, which is ultimately something
8 that they have to comply with. But they wanted a -- sort
9 of a more broad -- let's make sure that the assets and
10 liabilities are moving together, as opposed to a more
11 specific objective on the -- relative to the RSR band.

12 MR. WALTER SARANCHUK: And in your
13 decision or in your instruction to make those changes,
14 were you dealing with anybody in particular from MPI?

15 MR. JEREMY BELL: Well, I was dealing
16 with Glenn Bunston at MPI, the Director of Investments.
17 Yeah, he can tell you internally exactly how the -- or if
18 they can...

19 MR. WALTER SARANCHUK: And what was your
20 reaction to the instruction to change the goals?

21 MR. JEREMY BELL: I'd say entirely
22 reasonable. It may have been a bit -- it's not
23 necessarily common to change the objectives halfway
24 through a study but I think that there was a recognition
25 that the objectives weren't exactly what MPI wanted, so

1 they decided to change the objectives.

2 Those objectives to me -- either set of
3 objectives -- objectives to me appear reasonable as an
4 outsider. So it really is what -- what does MPI value as
5 far as objectives go? And so they made a different
6 judgment when they had some results and had some
7 objectives in front of them.

8 MR. WALTER SARANCHUK: Who set the
9 initial objectives?

10 MR. JEREMY BELL: MPI, originally.

11 MR. WALTER SARANCHUK: And so there was
12 no discussion in respect of the validity, if you will, or
13 acceptability, vis-a-vis MPI, in the stating of those
14 initial objectives, at least not until there was some
15 results of your study known.

16 Is that correct?

17 MR. JEREMY BELL: Hm --

18 MR. WALTER SARANCHUK: What I'm getting
19 at is -- can you explain a little bit more in terms of
20 how it came about that initially you were working with
21 two (2) objections. There was no question about them.
22 You addressed those and then suddenly after there was
23 this information provided on a preliminary basis, you
24 found yourself working with a couple of other objectives.

25 First of all, did that surprise you?

1 MR. JEREMY BELL: Did it surprise me?
2 Asset liabilities today are reasonable dynamic. It
3 didn't surprise me. It's not -- I mean, it would be not
4 all that common to do something and -- and -- and switch
5 it.

6 But -- I mean, the switch of objectives
7 was fairly minor in terms of what the results were going
8 to be. I feel like I'd be guessing a little bit if I got
9 to -- if I got any deeper into why I think MPI changed
10 the objectives, because it happened with limited
11 consultation from us.

12 I mean we -- we agree that these
13 objectives are modellable and reasonable for someone to
14 have in a study, but ultimately those objectives came
15 from MPI.

16 MR. WALTER SARANCHUK: So there was no
17 rationale that you discussed with MPI, relative to the
18 change?

19 MR. JEREMY BELL: Well, the rationale at
20 the very high level would be that they wanted to run --
21 or make their decisions based on what's best for the
22 company, as opposed to based on a specific order; so long
23 term health of company having the assets and liabilities
24 moved closer together. Both -- the objectives that they
25 had originally served to do that but was a little less

1 direct than the objectives that they ultimately got.

2 So that was the high, high level
3 discussion, but if you need more detail I'd think MPI
4 would be the people to talk to because I cert -- got more
5 second hand information then.

6 MR. WALTER SARANCHUK: Can you give us an
7 idea of how the results of the modelling changed when the
8 objectives changed?

9 MR. JEREMY BELL: The changes were fairly
10 limited. I don't have it broken out exactly what -- what
11 they were, but ultimately if you're trying to manage your
12 retained earnings within the band, versus you're trying
13 to have assets close to liabilities, those are
14 fundamentally and fairly similar things. So you're not
15 going to have fundamentally different portfolios at the
16 end of the day, assets and liabilities moving closer
17 together should make retained earnings more stable.

18 MR. WALTER SARANCHUK: And I'm looking at
19 the table in the executive summary on page 1, sir, if you
20 wouldn't mind referring to that.

21 And for the benefit of all of us, would
22 you just give us an indication of what each of those
23 columns represent.

24 MR. JEREMY BELL: Each column represents
25 a different portfolio. Going through it, the current mix

1 is what their -- MPI's policy portfolio was at the outset
2 of the study. And then the other portfolios are
3 recommended portfolios that we provided to MPI, based on
4 the results of the study, one (1) of which is based on
5 some sen -- one (1) sensitivity testing on changing the
6 assumptions. So we used some assumptions from MPI, which
7 were very similar to ours but had a slightly different
8 inflation rate and slightly different long bond
9 assumption but very similar.

10 And then the other one is based on our own
11 assumptions, the ones that we would typically use on a --
12 unchanged by MPI.

13 MR. WALTER SARANCHUK: And as I
14 understand it, although Aon noted that the current
15 portfolio is reasonable it nonetheless recommended two
16 (2) other portfolios.

17 Is that correct?

18 MR. JEREMY BELL: That's correct.

19 MR. WALTER SARANCHUK: And one was
20 Portfolio Number 5 based on MPI's assumptions, shown at
21 page 27, that is Section 6, which reflected the 75
22 percent fixed income and included -- and included 20
23 percent mortgages with 5 percent equities and 20 percent
24 other. And in alternative Portfolio Number 10, based on
25 Aon's assumptions, Section 6 at page 31, which included

1 70 percent fixed income with no mortgages and 10 percent
2 public equities and 20 percent other.

3 And -- is that correct, sir?

4 MR. JEREMY BELL: Yes.

5 MR. WALTER SARANCHUK: And can you
6 confirm that relative to the current portfolio, these
7 portfolios are expected to provide higher returns with
8 lower levels of asset liability mismatch risk?

9 MR. JEREMY BELL: I confirm that for the
10 first one, Portfolio 5 on page 27, and -- and for
11 Portfolio 10 on page 31. Yeah.

12 MR. WALTER SARANCHUK: Thank you, sir.
13 Now, I note that the chart on page 27 refers to after the
14 heading, quote, "Asset Allocation of Optimal Portfolios,"
15 end of quote, it says in brackets, quote, "(new economic
16 scenarios)," end of quote.

17 What -- can you explain that please?

18 MR. JEREMY BELL: I can. That -- that
19 shouldn't have been left in the report. The way we
20 modelled it originally was we used Aon's assumptions and
21 then the sensitivity was based on MPI's assumptions. How
22 we ultimately wrote it in the report is we used MPI's
23 assumptions as the base and Aon's assumptions as the
24 sensitivity. So that reflects our modelling spreadsheet,
25 where we had still called MPI's assumptions new economic

1 scenarios, but really it's just MPI's assumptions.

2 MR. WALTER SARANCHUK: It doesn't reflect
3 your categorization of MPI's assumptions as reflecting
4 new economic scenarios? Or does it?

5 MR. JEREMY BELL: It doesn't -- well, I
6 say it should be deleted so I'm not trying to qualify
7 anything about MPI's assumptions. But I mean MPI's
8 assumptions are different from ours, which means that
9 they have different economic scenarios from ours. So...

10 MR. WALTER SARANCHUK: And you considered
11 theirs to be reasonable nonetheless?

12 MR. JEREMY BELL: Theirs are reasonable,
13 yeah.

14

15 (BRIEF PAUSE)

16

17 MR. WALTER SARANCHUK: Could you please
18 explain, sir, the characteristics of your recommended
19 portfolio and what that led you to believe it was the
20 optimal portfolio for MPI. So for example, if you
21 wouldn't mind just reviewing the portfolio statistics
22 from the report and have -- and if you wouldn't mind
23 demonstrating and explain why each of the particular
24 statistics made it to the superior portfolio?

25

1 (BRIEF PAUSE)

2

3 MR. WALTER SARANCHUK: And just while
4 you're looking through your notes, just can you confirm
5 that number 5 on page 27 is MPI's base as submitted, and
6 number 10 is yours, or Aon's? It's on page 31.

7 MR. JEREMY BELL: Yes, I confirm, though,
8 just to add some more precision to that statement, number
9 5 on page 27 isn't MPI's recommended portfolio; number 5
10 is using MPI's assumptions. It's our recommended
11 portfolio based on MPI's assumptions.

12 And similarly, on 31: our assumptions, our
13 portfolio -- or our recommended portfolio.

14 MR. WALTER SARANCHUK: So in terms of
15 comparing the two (2)? Reviewing the salient
16 distinctions.

17 MR. JEREMY BELL: Are you interested more
18 in the asset class differences or how they're going to
19 perform?

20 MR. WALTER SARANCHUK: Well, actually
21 both, but basically how you came to the conclusion of
22 recommending what you did.

23 MR. JEREMY BELL: Okay. Well, the last -
24 - the last step in the process is largely MPI's step.
25 Ultimately, we come with a recommended portfolio, which

1 is based on our understanding of what the trade-off is
2 between MPI's primary and secondary objectives. So their
3 primary objective being -- where am I looking here:

4 "To minimize the tracking year of
5 assets relative to liabilities, and
6 maximize returns subject to reasonable
7 level of risks."

8 Based on our understanding of that and our
9 review of the report, we make a recommendation.
10 Ultimately, all clients choose a place in the curve to be
11 rather than what we recommend, often where we -- where we
12 don't recommend. The curve really tells you what' s
13 optimal, so anywhere on the curve mathematically is just
14 as good as anywhere else on the curve, basically.

15 Portfolio 5 reflected our trade-off. Our
16 assumption would be -- would have been that the primary
17 objective would have been more important than the
18 secondary objective which is why Portfolio 5 would have
19 been what we recommended. So Portfolio 5 has relatively
20 low risk and Portfolio 10 on -- on Chart 31 has relative
21 low risk. So that would be us making the primary
22 objective of paramount importance when we decide which --
23 where to recommend the MPI go.

24

25

(BRIEF PAUSE)

1 MR. WALTER SARANCHUK: So if you ever to
2 -- if you did emphasize the first objective or primary
3 one, namely minimizing the tracking error, as opposed to
4 the secondary object of -- of maximizing returns, then
5 had you endorsed, or at least given as much priority to
6 the secondary objective, then there would have been
7 maximization, if you will, of the returns?

8 MR. JEREMY BELL: Yeah, if -- based on --
9 based on the way that it's written, if I put the primary
10 objective of paramount importance, then I'm going to end
11 up further left on the curve, which means the Portfolio 5
12 on -- on page 27 and Portfolio 10 on page 31.
13 Ultimately, MPI placed them towards more of equal
14 importance and they chose something to the right of what
15 we chose, which it provided a little bit more return and
16 a little less risk. But that's ultimately their judgment
17 to trade those -- those things off generally.

18 MR. WALTER SARANCHUK: Now both of the
19 portfolios -- both of your portfolios, suggest the much
20 lower percentage allocation to equities than the current
21 portfolio mix.

22 Is that correct?

23 MR. JEREMY BELL: That's correct.

24 MR. WALTER SARANCHUK: And what would a
25 higher level of equities provide for the risk and return?

1 MR. JEREMY BELL: Well, a higher level
2 would provide more mismatch to your liabilities. So
3 higher level of risk and the -- and a higher level of
4 return, because it should provide higher returns than the
5 other alternatives.

6 MR. WALTER SARANCHUK: And is it a fact
7 that MPI added the -- I've got the acronym here -- EAFE,
8 E-A-F-E? And is that Europe, Asia, Far East emerging
9 markets?

10 MR. JEREMY BELL: Emerging market --
11 markets is optional but, yes, it's Europe, Asia, Far
12 East.

13 MR. WALTER SARANCHUK: And was that to
14 further diversify the portfolio and gain exposure to the
15 equity markets outside North America?

16 MR. JEREMY BELL: I -- that's -- that's
17 how I'd interpret it.

18 MR. WALTER SARANCHUK: And what is your
19 comment on the inclusion of EAFE?

20 MR. JEREMY BELL: Reasonable to the
21 extent that there's capacity to manage EAFE. I think
22 models can sometimes be a little bit brittle, so to the
23 extent you can diversity a little bit beyond what the
24 model tells you, I would say that's a positive step,
25 generally. I wouldn't have put a large allocation into

1 EAFE, but a 3 percent allocation is something that I'd be
2 comfortable with.

3 MR. WALTER SARANCHUK: Why didn't your
4 optimal portfolios include this sector?

5 MR. JEREMY BELL: It's a little bit
6 difficult to say on -- for an individual asset class why
7 it didn't get put in there. But, I mean, it all boils
8 down to had it replaced anything else, it wouldn't have
9 provided you with the same level of reward for that level
10 of risk. So whether or not it was a correlation relative
11 to other asset classes, so it's -- this doesn't provide
12 much diversification benefits, or whether or not it was -
13 - didn't have the same expected return or has had a
14 higher standard deviation assumption, it -- it's kind of
15 -- it -- it's difficult to isolate a single reason why an
16 individual asset class doesn't show up.

17 But -- but ultimately, it was the model;
18 there was no judgment.

19 MR. WALTER SARANCHUK: Did you model
20 EAFE?

21 MR. JEREMY BELL: We modelled EAFE.

22 MR. WALTER SARANCHUK: Was it reviewed
23 with MPI?

24 MR. JEREMY BELL: Define reviewed.

25 MR. WALTER SARANCHUK: Well, what -- to

1 what extent did you discuss your modelling of EAFE with
2 MPI?

3 MR. JEREMY BELL: Well, we -- EAFE
4 approve -- or EAFE -- MPI approved out use of EAFE as a -
5 - as a modelling asset class. And like all other asset
6 classes, we provided them with an expected return,
7 standard deviation correlation assumption. So -- but
8 that's as deep as the -- as it went.

9 And -- well, I guess one other thing, we
10 defined constraints, so we set a maximum level where EAFE
11 can go to and a minimum level where EAFE can go to in the
12 study. And that -- those are the only sort of
13 discussions we'd had with MPI on EAFE.

14 MR. WALTER SARANCHUK: I draw your
15 attention, sir, to the economic assumptions and I want to
16 review the difference between them.

17 In Appendix A with -- this is pages 36 to
18 38 of your report -- there is the set of assumptions
19 entitled, "Base Nominal Return". And as I understand it,
20 that is to be compared with the assumptions on pages 39
21 to 41, which is entitled the "Alternative Nominal
22 Return".

23 Do you see those, sir?

24 MR. JEREMY BELL: I do. And you can call
25 base MPI assumptions, just to -- for consistency in our

1 discussion, and you can call alternative Aon's
2 assumptions.

3 MR. WALTER SARANCHUK: Thank you, sir.
4 Now, in terms of the differences -- and you'll just have
5 to bear with me, sir, in terms of turning these pages
6 back and forth. But at -- looking at page 36, for
7 example, just reviewing some of the asset classes, I'm
8 looking at the very bottom of page 36, and the Canadian
9 Equity Large Cap as being shown as the asset class that
10 is the index, and that's the S&P TSX capped composite.

11 Do you see that at 8.4 percent, sir?

12 MR. JEREMY BELL: I do.

13 MR. WALTER SARANCHUK: Can you advise as
14 to what that 8.4 rep -- percent represents?

15 MR. JEREMY BELL: That represents the
16 expected return in the model for what Canadian Equities
17 will give an investor over the next fifteen (15) years.

18 MR. WALTER SARANCHUK: Yes. And now
19 turning to page 39 at the very bottom in the asset class
20 -- the same asset class of Canadian Equity Large Cap is
21 indicated there at 8.0 percent.

22 Can you explain the difference there, sir?

23 MR. JEREMY BELL: Sure. The Canadian
24 Equity asset class is set as an equity risk premium
25 overtop of cash, and the cash return changed from one (1)

1 to the other. The cash return changed because of the
2 inflation assumption and -- well, there are two (2)
3 assumptions that changed.

4 One (1) is we had to change the -- in
5 order to get to MPI's assumptions, we had to change the
6 way that our yield curve actually moved, because they
7 wanted a different return -- or different long bond
8 assumption. And so because the yield curve changed a
9 bit, that will affect what we ultimately do for Canadian
10 Equities, because Canadian Equities is based on a premium
11 over the short-term yields.

12 MR. WALTER SARANCHUK: And I note that
13 the column entitled, "Expected Returns," relative to the
14 Canadian Equity Large Cap asset class, basically contains
15 the same narrative, that there's no change in the two
16 (2).

17 Is that correct, sir?

18 MR. JEREMY BELL: Correct.

19

20 (BRIEF PAUSE)

21

22 MR. WALTER SARANCHUK: So in looking at
23 the differences between the base, or MPI's assumption,
24 and Aon's at the alternative, what inflation factors are
25 built in?

1 MR. JEREMY BELL: Aon is assuming 2
2 percent inflation with a standard deviation. So there's
3 different scenarios where inflation can be large and
4 different scenarios where inflation can be small.

5 MPI is assuming 2 1/4 percent inflation
6 with a standard deviation, so a range of values, but the
7 expected value is 2 1/4 percent for MPI's assumptions.
8 So the assumption on the bottom of page 38 would be MPI's
9 inflation assumption: 2 1/4 percent with a standard
10 deviation of one point one (1.1).

11 MR. WALTER SARANCHUK: So would that
12 account for the difference between the 8.4 percent and
13 the 8.0 percent?

14 MR. JEREMY BELL: No, not exactly. There
15 was a change in -- in the yield curve. We had a -- a
16 yield curve that was mean reverting, so we had -- our
17 bond rates -- or all of the yields on bonds were
18 increasing over the time to go back to what their
19 historical average had been.

20 MPI didn't want that for Long Term Bonds,
21 so we had to hold that steady of -- just let me reference
22 what my notes...

23

24

(BRIEF PAUSE)

25

1 MR. JEREMY BELL: Yeah, MPI want -- MPI
2 assumed that the yield curve would maintain its current
3 shape where we normally have a mean reverting yield
4 curve. So that's going to make a slightly different
5 return on fixed income over the fifteen (15) year period,
6 which is going to effect what we're going to --
7 ultimately going to have for our equity returns, because
8 those derived from fixed income returns.

9

10 (BRIEF PAUSE)

11

12 MR. WALTER SARANCHUK: So is it correct
13 to state that MPI was essentially looking to the yields
14 to remain static while you were looking more to a forty
15 (40) year low, so that the yields would then refer back
16 to the long term averages?

17 MR. JEREMY BELL: Sorry, could you repeat
18 that?

19

20 (BRIEF PAUSE)

21

22 MR. WALTER SARANCHUK: My understanding
23 is that Aon wanted to model on the basis of Long Term
24 Bonds, which were at a forty (40) year low, as opposed to
25 MPI looking at a yield that would be static.

1 Is that correct?

2 MR. JEREMY BELL: No. Aon didn't -- well
3 we didn't -- we didn't want to model on the forty (40)
4 lows. We -- we assume that the yield curve could have --
5 would revert back to what the long term average had been.
6 So we're not actually saying it's going to stay at forty
7 (40) year lows.

8 MPI, and this doesn't reflect anything to
9 do with them as a company as their expectation -- it was
10 more of a -- we don't think that Long Term Bonds are
11 going to provide higher yields in the future; can be
12 modelled what the impact would be if we didn't get those
13 higher yields. Because it was making the -- the thought
14 was, within the investment working group, that it was
15 making the returns on Long Term Bonds look a little bit
16 too good and -- and thus they were showing up perhaps
17 artificially.

18 So it was -- it was more of a sensitivity
19 testing and ultimately what we -- we thought was a
20 reasonable basis.

21 Whether yields mean revert or stay the
22 same, either one of those is a reasonable assumption.
23 The market has a pretty guess for what yields will be in
24 the future as of today, and mean reversion is a somewhat
25 standard guess for where yields could be in the future

1 possibly too. So either one of them's reasonable.

2 MR. WALTER SARANCHUK: So does this lend
3 some credence and support to MPI's decision not to go
4 with Long Term Bonds?

5 MR. JEREMY BELL: Well, Long Term Bonds
6 showed up in either scenario so, no.

7 MR. WALTER SARANCHUK: Now looking at the
8 other -- another category, namely Canadian Equity Small
9 Cap where under the base it's implicated at 8.9 percent,
10 and under the alternative, at page 40, it's indicated at
11 8.4 percent.

12 Can you comment on that difference, sir?

13 MR. JEREMY BELL: Exact same reason. So
14 yield curve change and change in inflation rate. It --
15 it's necessary that -- I mean all these models, all the
16 assumptions are moving parts, and to change the yield on
17 long term bonds that rate requires you to change the --
18 the return on the entire yield curve which will require
19 you to change returns across the board on -- on a whole
20 bunch of other asset classes.

21 So it's -- it's a function of keeping the
22 model internally consistent and not making it contradict
23 itself.

24 MR. WALTER SARANCHUK: So in broad terms
25 how comfortable are you with MPI based assumptions, as

1 compared to your own?

2 MR. JEREMY BELL: In broad terms,
3 reasonably -- reasonably comfortable.

4 MR. WALTER SARANCHUK: Do you equally
5 recommend findings based on MPI's assumptions, as those
6 based on your own?

7 MR. JEREMY BELL: I would say I endorse
8 them as reasonable but I -- if asked to recommend
9 something I'd use my own.

10 MR. WALTER SARANCHUK: Now referring to
11 page 69 of the report, which compares the returns
12 selected by MPI with Aon's optimal portfolios, again can
13 you confirm in that table of three (3) columns there,
14 going horizontally, that the recommended portfolio,
15 Portfolio 5, Chart 3, is MPI's, and the alternative
16 recommended portfolio, Portfolio 10, Chart 5 is Aon's?

17 MR. JEREMY BELL: I'll just clarify that
18 again though. Neither one of those is MPI's recommended
19 portfolio.

20 So Portfolio 5, Chart 3, is the
21 recommended portfolio that we developed, based on our
22 understanding of the primary versus secondary objective
23 importance. So it's Aon's recommended portfolio using
24 MPI's assumptions. Similarly, Portfolio 10 of Chart 5 is
25 our recommended assumptions, based on our understanding

1 of the objective, which was ultimately -- the relative
2 importance was ultimately revisited by MPI, but our
3 recommended assump -- portfolio based on our assumptions.

4 MR. WALTER SARANCHUK: Is it correct that
5 this information here looks at the historical returns
6 based on the optimal, versus the current portfolio?

7 MR. JEREMY BELL: Yeah, it compares the
8 two (2) recommended portfolios, which are both optimal on
9 the curve, relative to the current asset mix.

10 MR. WALTER SARANCHUK: What level of
11 comparison was done by Aon on its optimal portfolios with
12 what was selected ultimately by MPI?

13 MR. JEREMY BELL: You mean how do we
14 compare these portfolios to modified Portfolio 11?

15 MR. WALTER SARANCHUK: Yes.

16 MR. JEREMY BELL: Well, typically we
17 don't even do what's in Appendix G. This was requested
18 by MPI as a -- as an add-in to help them decide what
19 would have been the impact had they been in those
20 portfolios.

21 So Appendix G is something that we would
22 normally not do. We don't compare what past returns had
23 been. We set assumptions based on our understanding of
24 past returns, standard deviations, correlations, expected
25 returns, so we don't do any back-testing of what would

1 have happened had they had been in X, Y, Z. We would
2 have ended up with -- I don't think that's all that
3 useful for making decisions, but some investment
4 committees like to know some of those sorts of things
5 before they make a decision: What would this impact have
6 been?

7 MR. WALTER SARANCHUK: Now, of course
8 these are the two (2) portfolios that you recommended but
9 were not selected.

10 Is that correct?

11 MR. JEREMY BELL: That's correct.

12 MR. WALTER SARANCHUK: And we are advised
13 by MPI that Aon was supportive of the ultimate selected
14 portfolio. This is at page 382 of the transcript, for
15 the record. However, I'm also advised that this was not
16 indicated in the actual report.

17 Is that correct?

18 MR. JEREMY BELL: Is it correct that we
19 didn't indicate that we were...

20 MR. WALTER SARANCHUK: Supportive of the
21 ultimate selected portfolio?

22 MR. JEREMY BELL: That's correct, that's
23 not in the report.

24

25 (BRIEF PAUSE)

1 MR. WALTER SARANCHUK: You referred to
2 the term "back-testing" as being sought on occasion.
3 Does this information on page 69 reflect back-testing?

4 MR. JEREMY BELL: Yeah, I'd call that
5 back- testing. They weren't actually invested in either
6 of those recommended portfolios, and they were interested
7 in what the returns would have been had they been in --
8 in that. It's just another piece of information that a
9 committee might be interested in to make a prospective
10 decision.

11 MR. WALTER SARANCHUK: And did MPI want
12 this back-testing, to your infor -- to your knowledge, to
13 support their decision for number 11, ultimately?

14 MR. JEREMY BELL: No.

15 MR. WALTER SARANCHUK: Can you elaborate
16 on how Aon is generally supportive of -- supportive of
17 MPI's selected portfolio, just in terms of reviewing any
18 differences in probabilities and risk and expansion into
19 EAFE.

20 MR. JEREMY BELL: Well, as far as the
21 modelling goes, the reason why we'd be generally
22 supportive is because it's effectively an optimal
23 portfolio; it's -- it's touching the ultimate portfolio.
24 Although there can be a free lunch by being had -- it's a
25 very small free lunch possible, and it does put a fair

1 bit of weight into the model if you decide to take one
2 (1) of the model portfolios as being perfect.

3 I mean, I -- I can say that it's --
4 without looking at the numbers -- you can look at where
5 it is on the graph on page 70, and -- and it's -- I -- I
6 wouldn't call that a suboptimal portfolio. It's
7 effectively an optimal portfolio, being that close to the
8 curve.

9 MR. WALTER SARANCHUK: I'm intrigued by
10 your use of the vernacular, quote, "free lunch," end of
11 quote.

12 What do you mean?

13 MR. JEREMY BELL: Well the definition of
14 the efficient frontier is that you -- you can get a free
15 lunch if you're not on the efficient frontier by moving
16 up and to the left. Generally the top left is where you
17 want to be. If I'm below the curve and to the right then
18 there is a free lunch involved in moving to the curve.
19 By moving up and to the left you decrease your risk and
20 increase your -- your expected return.

21 But the difference between where MPI chose
22 and -- and the -- a free lunch available and moving to
23 let's say Portfolio 11, because Portfolio 11 is slightly
24 optimal in both ways, slightly less risk and slightly
25 higher expected returns, is I'd say fairly small.

1 MR. WALTER SARANCHUK: So a free lunch is
2 an actuarial term?

3 MR. JEREMY BELL: Perhaps.

4 MR. WALTER SARANCHUK: And I don't know
5 whether I asked you this specifically before, sir, if I
6 did, I apologize, but again, just to make sure that I
7 cover this off, can you explain why there is no
8 commentary in your actual report, related to MPI's
9 selected portfolio?

10 MR. JEREMY BELL: Yeah. Implementation
11 for all clients -- or almost all clients, is done as a
12 second step. Ultimately we make a report, make a
13 recommendation, and then the investment committees and
14 boards and all the rest have to approve implementation.

15 So there wasn't a specific question of,
16 can you provide some commentary on this, it was -- they
17 were considering implementing that considering talking
18 about that with the investment committee, wanted to have
19 some statistics for the discussion but it wasn't a
20 specific question that we were asked to deal with in the
21 report.

22 MR. WALTER SARANCHUK: Thank you, sir.
23 Did Aon prepare a similar analysis as that on page 69,
24 comparing the returns of MPI's selected portfolio against
25 historical returns?

1 MR. JEREMY BELL: No.

2 MR. WALTER SARANCHUK: And is there a
3 reason for that?

4 MR. JEREMY BELL: We weren't asked to.

5

6 (BRIEF PAUSE)

7

8 MR. WALTER SARANCHUK: Can you give us an
9 idea of what measure of effort it would take to prepare
10 that?

11 MR. JEREMY BELL: Limited. Half an hour
12 to an hour. Not from right at this moment, but -- of
13 actual work.

14 MR. WALTER SARANCHUK: Mr. Chairman, I'm
15 going to be proceeding with another area in the cross-
16 examination of this witness and I'm just wondering
17 whether this is an opportune time to have the morning
18 break.

19 THE CHAIRPERSON: It sounds fine.

20

21 --- Upon recessing at 10:22 a.m.

22 --- Upon resuming at 10:45 a.m.

23

24 THE CHAIRPERSON: Anytime you are ready
25 to begin again, Mr. Saranchuk.

1 CONTINUED BY MR. WALTER SARANCHUK:

2 MR. WALTER SARANCHUK: Thank you, sir.
3 I'd ask you to turn, sir, to the chart on page 70 of your
4 report.

5 And I think that in earlier testimony you
6 referred to the efficient frontier as being represented -
7 - is it, by the yellow squares in that chart?

8 MR. JEREMY BELL: That's correct.

9 MR. WALTER SARANCHUK: And I think you
10 defined the efficient frontier as the optimal portfolio
11 for the highest reward for the level of risk?

12 MR. JEREMY BELL: Yeah, it consists of
13 the optimal portfolios, so all those are individual
14 portfolios. Portfolios 1 through 21, each one of those
15 would provide the optimal level of reward for a given
16 level of risk.

17 MR. WALTER SARANCHUK: And so in respect
18 of this chart, does it trade off the risks and rewards of
19 various different portfolios as per MPI's assumptions?
20 It's on page 70.

21 MR. JEREMY BELL: Yeah.

22

23 (BRIEF PAUSE)

24

25 MR. JEREMY BELL: Yes.

1 MR. WALTER SARANCHUK: And in your
2 confirmation of that, are you referring to the infor --
3 the chart on page 26?

4 MR. JEREMY BELL: Correct.

5 MR. WALTER SARANCHUK: Now, with
6 reference to the chart on page 70, could you please
7 describe what the chart represents, and where your two
8 (2) recommended portfolios fall within this chart?

9 MR. JEREMY BELL: Okay. Portfolio 10,
10 from Chart 31, isn't on this report, so that's not
11 optimal of -- relative to the MPI assumptions. So only
12 MPI -- only the recommended portfolio we had on page 26
13 is actually going to show up on this report, and that
14 will be Portfolio 5.

15 If you look at the red square -- or the
16 yellow square that is numbered five (5), that is the
17 initial recommended portfolio that we had.

18 MR. WALTER SARANCHUK: So you're talking
19 about the yellow square?

20 MR. JEREMY BELL: Yellow square, number
21 5.

22 MR. WALTER SARANCHUK: Okay. Can you
23 talk about the differences then, please.

24 MR. JEREMY BELL: Between yellow square
25 number 5 and modified mix 11, or between...?

1 MR. WALTER SARANCHUK: Your two (2)
2 recommended portfolios?

3 MR. JEREMY BELL: My -- my other
4 recommended portfolio isn't on there, because it's not
5 optimal using those assumptions.

6 MR. WALTER SARANCHUK: All right. Then
7 could you please interpret the chart then?

8 MR. JEREMY BELL: Sure. Well, Portfolios
9 1 to 21 have -- provide the optimal level of return,
10 where return is defined as the average annual excess
11 return, so the return of the assets in excess of the
12 increase in the value of the liabilities -- obviously you
13 want that to be higher than lower -- versus the average
14 annual standard deviation of the excess return. So you
15 don't want your -- which is what we call tracking error
16 of the assets relative to the liabilities.

17 You want your tracking error to be low;
18 you want to be as left most as you can on that graft --
19 graph. And you want your excess return to be high; you
20 want to be as -- as high as you can on that graph.

21 Portfolios 1 to 21 represent the best
22 twenty-one (21) portfolios, or the -- or the free lunch
23 portfolios, as we were talking about before, where you
24 get the highest level of return for a given level of
25 risk.

1 Portfolio 5 was our initial portfolio
2 which -- our initial recommended portfolio, which
3 provided paramount importance to limiting risks. You can
4 see it's fairly far to the left of that portfolio, has
5 relatively the -- low level of risk, and a relatively low
6 level of return, relative to a place on the portfolio
7 where MPI ultimately ended up, which is between eleven
8 (11) and -- modified mix number 11. So the light blue
9 triangle and the yellow square.

10 The current mix, you can see is
11 suboptimal, but it's beneath the curve. Though, as we
12 talked about before, it wasn't -- it wasn't entirely
13 unreasonable; it's just there was a fair bit of reward
14 you could gain without taking on more risk.

15 MR. WALTER SARANCHUK: And, of course, it
16 appears that the current portfolio was below the
17 efficient frontier.

18 Is that correct?

19 MR. JEREMY BELL: The current portfolio
20 is, yeah.

21 MR. WALTER SARANCHUK: And on this chart
22 on page 70, there's reference to the portfolio universe.
23 Can you explain that, please.

24 MR. JEREMY BELL: Those are all the
25 tested portfolios at that stage of the study. So the

1 study goes in a few different steps where we can -- we
2 refine down what asset classes are interesting for future
3 steps. So we'll talk about what kind of bond terms we
4 want to look at. We'll talk about what -- what type of
5 equities we want to invest in, those sorts of things.

6 So this is the last step where decided
7 equities -- what -- like how to structure our equities,
8 relative to each other. We decided how to do -- do bond
9 terms. And then all of the different testings of weights
10 between alternatives and -- and equities versus fixed
11 income. This is what we're testing and this is going to
12 be just a whole bunch of different portfolios, so
13 different asset mixes all adding up to 100 percent, and
14 what kind of reward they give you for their level of
15 risk.

16 MR. WALTER SARANCHUK: Now, you also
17 plotted modified Portfolio Number 11, which is MPI's
18 selected portfolio. Can you comment on its relative
19 position, versus the efficient frontier.

20 MR. JEREMY BELL: Yeah, it's beneath an
21 efficient frontier or to the right, or however you want
22 to call it. It's not on the efficient frontier, which
23 mathematically would tell you it's not optimal. However,
24 I'd say it's relatively close, and as much as I enjoy
25 mathematics, it's -- it -- there is a real world too, so

1 it provides some deference to the fact that models aren't
2 perfect, but it's -- it's reasonably close to the curve.

3 MR. WALTER SARANCHUK: And on page 26, as
4 I understand it, is the plotting of a similar chart,
5 based on MPI's assumptions. And on page 30 by way of
6 comparison there's a similar chart with alternative
7 assumptions based on Aon's assumptions.

8 Is that correct?

9 MR. JEREMY BELL: That's correct. In
10 fact, page 26 is the exact same as page 70, except for --
11 the modified mix 11 has been added. So it's -- it was
12 just an add-on to try and see where modified mix 11 was.

13 MR. WALTER SARANCHUK: And the difference
14 between the two (2) charts on page 26 and 30 of course is
15 due to the differing economic assumptions?

16 MR. JEREMY BELL: That's correct. But
17 it's also important to note that each one of those charts
18 followed its own process, so there was a -- before
19 getting to each chart, there was a talk -- or there was
20 an optimization of what term to go to in bonds -- how to
21 structure the equity portfolio, because each one of those
22 depends on the previous -- on -- on the -- on the
23 assumptions.

24 So this represents the final step. Chart
25 3 represents the final step of an optimization using --

1 and this is the chart on page 26 -- represents the final
2 step of the optimization using MPI's assumptions and
3 Chart 70 represents the final step using Aon's
4 assumptions. And now the universe, or the portfolio
5 universe, isn't going to be the same on both, because in
6 Aon's assumptions we may not be testing the exact same
7 portfolios because they may have been -- or some asset
8 classes may have been eliminated before getting to the
9 very final steps.

10 So they're largely the same types of
11 graph, but -- and largely the same results, but not
12 exactly the same things have been tested.

13 MR. WALTER SARANCHUK: So which chart
14 should be viewed in comparison to Appendix H?

15 MR. JEREMY BELL: Chart 3 is the exact
16 same as Appendix H. I mean, I guess you could probably
17 get information from comparing anything to -- to Appendix
18 H, but chart 3 is the same with -- with modified mix 11
19 added on. Chart 5, I guess it's hard to compare lines to
20 different lines, so perhaps you wouldn't compare that to
21 Appendix H but...

22 MR. WALTER SARANCHUK: Now, MPI has
23 indicated that the relative position of their chart is
24 suboptimal from what Aon proposes. This at the
25 transcript, for the record, page 349.

1 Would you agree?

2 MR. JEREMY BELL: Sorry, one (1) more
3 time on that?

4 MR. WALTER SARANCHUK: MPI has indicated
5 that the relative position of their chart is suboptimal
6 from what you proposed?

7 MR. JEREMY BELL: I don't know what that
8 means, a chart being suboptimal.

9 MR. WALTER SARANCHUK: In terms of the
10 term "suboptimal," what is your understanding of it?

11 MR. JEREMY BELL: It doesn't actually
12 have any meaning to me, that statement, because charts
13 aren't optimal or suboptimal.

14 MR. WALTER SARANCHUK: So in terms of the
15 actual portfolio selected, can the term "suboptimal"
16 apply?

17 MR. JEREMY BELL: Yes, portfolios can be
18 suboptimal. The portfolio that they ultimately chose,
19 modified mix 11, would be -- and mathematically all you'd
20 say that it is a suboptimal portfolio; not with the sort
21 of loaded connotations of the word suboptimal, but
22 mathematically it's -- there -- there -- it's not on the
23 efficient frontier, which means it's suboptimal.

24 MR. WALTER SARANCHUK: But it's close?

25 MR. JEREMY BELL: Yeah, but it's close.

1 MR. WALTER SARANCHUK: And of course I
2 think you did mention earlier that you would have --
3 relative to MPI's approach, if you will, you would have
4 preferred some movement to Long Term Bonds?

5 MR. JEREMY BELL: Yeah. I'll just
6 correct that. There was some movement; I'd prefer more
7 movement. They put -- they are putting 10 percent of
8 their assets into Long Term Bonds that we recommended --
9 I'd say forty (40) would be better, but -- but there is
10 some.

11 MR. WALTER SARANCHUK: Thank you, sir.
12 MPI in this process did provide some reasons why it did
13 not ultimately select the portfolio recommended by MPI --
14 by Aon. And this is addressed at Interrogatory -- or
15 Information Response Number 10, served by the Public
16 Utilities Board on MPI in the First Round.

17

18 (BRIEF PAUSE)

19

20 MR. WALTER SARANCHUK: I don't know if
21 you have a copy of this. Have you, sir?

22 MR. JEREMY BELL: I do, yeah.

23 MR. WALTER SARANCHUK: Looking at the
24 bottom of page 1 of the response to that interrogatory,
25 the first reason given is, quote:

1 "The ICWG, [that's the Investment
2 Committee Working Group] was
3 uncomfortable with the wholesale switch
4 from Universe Bonds to Long Term Bonds,
5 given the fact Long Term Bond rates are
6 currently at forty (40) year lows."
7 End of quote.

8 Oh, sorry I should also read in, quote:

9 "In addition, due to the relatively low
10 spread between the yield on Long Term
11 Bonds and the yield on Universe bonds,
12 there was little advantage to such a
13 switch. Aon recognized the risk of
14 such a switch on page 34 of their
15 report." End of quote.

16 Aren't the returns on Long Term Bonds
17 usually higher than Universe Bonds?

18 MR. JEREMY BELL: Yeah. Normally --
19 normally the yield curve is steep, or steeper than it
20 currently is, which means that you get a slightly lower
21 yield on -- on shorter term bonds than you might get on
22 longer term bonds.

23 So the longer term you go you get a
24 slightly higher yield.

25 MR. WALTER SARANCHUK: And MPI cites that

1 the Long Term Bonds are currently at forty (40) year
2 lows. What are the implications of gradually switching
3 over to Long Term Bonds?

4 MR. JEREMY BELL: Well, it obviously
5 depends where interest rates go. From our perspective,
6 the reason that Long Term Bonds are showing up in the
7 portfolio has nothing to do with the expected return on
8 Long Term Bonds; it has to do with risk mitigation.

9 Basically if interest rates go from where
10 they are now in the fours down to 3 percent as it can
11 happen in some scenarios, and down to 2 percent in the
12 extreme scenarios, MPI's liabilities are going to --
13 going to go up fairly dramatically.

14 So for -- the reason Long Term Bonds show
15 up is because then if interest rates decline that way,
16 the assets will go up similarly.

17 As far as returns go which is largely the
18 reason why the Investment Committee Working Group made
19 the decision, there's a -- there's a concern that if the
20 interest rates, which are at forty (40) year lows go up,
21 which I don't think is an automatic assumption, but if
22 they do go up then it's worst to be in longer term bonds
23 than it is to be in shorter term bonds, because longer
24 term bonds are more sensitive to changes in interest
25 rates.

1 MR. WALTER SARANCHUK: Now on to page 34
2 of your report there's the explanation as to why you
3 believed that Long Term Bonds were more appropriate. And
4 I'm not sure whether this is exactly what you were
5 alluding to just now, this last bit of evidence, sir, but
6 just for the record, it says that, quote:

7 "We believe that Long Term Bonds are
8 the more appropriate option for the
9 Company's policy asset mix than the
10 Universe Bonds.

11 However, we understand why clients are
12 often reticent with making a dramatic
13 switch in the policy asset mix at what
14 appears to be an inopportune time.

15 We recommend that MPI either [and I'll
16 use (a)] change the fixed income asset
17 allocation from Universe Bonds to Long
18 Term Bonds immediately or (b) change
19 the fixed income assets using a defined
20 transition schedule based on the yield
21 spread between long term and short term
22 bonds.

23 The long term -- or the following table
24 -- there's a table provided there that
25 summarizes a possible schedule for

1 moving to Long Term Bonds." End of
2 quote.

3 Can you elaborate on that statement of
4 yours in the -- the report, sir?

5 MR. JEREMY BELL: Yes. Long Term Bonds
6 are a better place to be, as far as risk mitigation goes.
7 We think you should go there immediately.

8 The reason why we have these sorts of
9 discussion on perhaps implementing it a little bit
10 differently, is because clients like MPI, often are loath
11 to do it, because it feels like the wrong time to do it,
12 for exactly the same reason that they put inside their
13 description, forty (40) year low interest rates.

14 From our perspective it's like buying an
15 insurance policy. There's not reason that you would --
16 once you realized I needed a million dollars of life
17 insurance, there's no reason you would buy at two hundred
18 and fifty thousand dollars (\$250,000) worth at a time,
19 you'd buy it all now. That's how we think about Long
20 Term Bonds and that's why you should do it immediately.

21 But clients often won't do that
22 immediately, and so some sort of a schedule to switch
23 over from one to the other, we found actually helps
24 lubricate the move.

25 MR. WALTER SARANCHUK: Thank you, sir.

1 (BRIEF PAUSE)

2

3 MR. WALTER SARANCHUK: Over what
4 timeframe would that move usually occur?

5 MR. JEREMY BELL: Well, we'd recommend
6 immediately, but clients can do it over -- and what we've
7 recommended here isn't a timeframe. What we're
8 recommending here is when yields pick up to a point where
9 clients feel like they're getting paid for it.

10 It's more of a behavioural recommendation
11 as opposed to a mathematical recommendation. If someone
12 asked me what I'd prefer, as I've told you, Long Term
13 Bonds now and Long Term Bonds immediately make more sense
14 to me. But it may take five (5) years for yield spreads
15 to get to a point where they would move according to this
16 schedule.

17 MR. WALTER SARANCHUK: Yes. Now MPI's
18 indicated that there's a relatively low spread between
19 the yield on Long Term Bonds and the yield on Universe
20 Bonds.

21 Do you anticipate that that's to continue?

22 MR. JEREMY BELL: I don't really have a
23 specific anticipation of -- of what spreads will do.
24 Well, I mean, in -- in the modelling there's expected
25 returns and -- and there is some mean reversion, so I

1 guess the spread's going up a little bit. But it's not
2 showing up for anything to do with the return.

3 It's only showing up for risk mitigation
4 and the fact that in the 25 percent or close to 50
5 percent of scenarios where interest rates decline, Long
6 Term Bonds are a better place to be, and the risk -- the
7 interest rate risk that the company bears is dealt with
8 better by being in Long Term Bonds.

9 So I don't have any tactical decision
10 making, and that's why I'd say you'd do it right now,
11 because it's the right correct -- strategic place to be.

12 MR. WALTER SARANCHUK: Now can you give
13 an indication as to what would be a normal spread?

14 MR. JEREMY BELL: I can't. Maybe --
15 well, I'd be guessing, but fifty (50) to one hundred and
16 fifty (150) basis points, somewhere in that range. So .5
17 percent to 1.5 percent.

18 I mean that's not -- I'm not looking at
19 numbers, so I wouldn't put that in the transcript.

20 MR. WALTER SARANCHUK: Well, it's there.

21

22 (BRIEF PAUSE)

23

24 MR. JEREMY BELL: I meant zero to five
25 hundred (500) basis points.

1 MR. WALTER SARANCHUK: Now when you're
2 providing an option for transitioning to Long Term Bonds,
3 can you explain how this transitioning may work?

4 MR. JEREMY BELL: MPI, or Department of
5 Finance, or whoever is actually implementing the bond
6 move, I -- whether or not MPI can tell Department of
7 Finance to do this, or whether MPI has to look at it
8 themselves and then request it, or -- or -- through their
9 boards and governance structure -- I'm -- I'm not
10 anticipating anything there, but whatever it takes --
11 someone looks at where the yield spreads are between
12 Short and Long Term Bonds and then they decide when the
13 yield spread reaches the level that it's pre-determined
14 in the table that they do, it makes a mechanical motion,
15 which actually gives you a better chance of getting there
16 than some clients who don't want to get there at all, or
17 -- or don't -- don't feel the need because they're very
18 afraid of interest rates rising.

19 MR. WALTER SARANCHUK: Were you given any
20 information as to the working relationship between the
21 Department of Finance and MPI, in respect of the
22 investment portfolio?

23 MR. JEREMY BELL: On -- on an ad hoc
24 basis, not -- not explicitly. I -- I don't -- I mean,
25 yeah -- bare -- a little, noth -- nothing really.

1 MR. WALTER SARANCHUK: What conclusion
2 did you draw regarding that?

3 MR. JEREMY BELL: None whatsoever.

4 MR. WALTER SARANCHUK: So you don't know
5 how they interrelate or anything or anything like that?

6 MR. JEREMY BELL: Well I know, just in
7 passing, how things work. But our mandate, we consult
8 with the working group then we met with the board, but --
9 and I, you know, I know that they had responsibility, but
10 the exact relationship with the Department of Finance I -
11 - I know a little bit through discussions but very, very
12 little.

13 MR. WALTER SARANCHUK: Does the fact that
14 the portfolio is actively traded have any bearing on your
15 suggested transition strategy and how it would work?

16 MR. JEREMY BELL: No.

17

18 (BRIEF PAUSE)

19

20 MR. WALTER SARANCHUK: Are you familiar
21 with the report from Professors Hum and Simpson, sir?

22 MR. JEREMY BELL: Yes.

23 MR. WALTER SARANCHUK: Now, my
24 understanding is that they recommended that MPI implement
25 a laddering technique in reinvesting it -- its bond

1 portfolio into longer term bonds. This is referred to at
2 page 7 of the Hum and Simpson report.

3 What is your view on this strategy?

4

5 (BRIEF PAUSE)

6

7 MR. JEREMY BELL: I find the description
8 a bit confusing, the idea a bit unnecessary, those sorts
9 of things. I -- I mean laddering is -- it -- from the
10 way they're describing it, it's just investing in bonds.
11 I'm not sure whether or not they're matching cash flows
12 or what they're trying to do, so I'd say I'm confused.

13 MR. WALTER SARANCHUK: MPI thought it was
14 naive, that this approach was naive. What do you say to
15 that?

16 MR. JEREMY BELL: Yeah, I'd -- I'd --
17 well, I don't understand fully what they're trying to get
18 at in that one (1) paragraph.

19 Laddering bonds is a catch phrase. If
20 someone described exactly what that meant and what they
21 were going to ladder it and how they were going to match
22 liabilities, or what their -- what the point of their
23 laddering was, then perhaps we could comment on it, but
24 the way it's written it doesn't really mean much to me.

25 MR. WALTER SARANCHUK: And what is your

1 overall view on MPI's decision to limit its portfolio
2 exposure to Long Term Bonds, in terms of the risk in
3 return?

4 MR. JEREMY BELL: To limit? So the fact
5 they're not going all the way to Long Term Bonds?

6 MR. WALTER SARANCHUK: Yes.

7 MR. JEREMY BELL: Not positive, but I
8 mean it's not -- it's not a deal breaker where I'd get --
9 say that this isn't reasonable, but it's somewhat
10 expected. A lot of clients have a difficulty -- have
11 difficulty moving to Long Bonds, but we think about bonds
12 as risk mitigators and if you think about it that way,
13 it's hard not to move to Long Bonds.

14 MR. WALTER SARANCHUK: And returning to
15 the Corporation's response to Public Utilities Board
16 Information Request 1 -- or, sorry, Number 10 on the
17 First Round, it indicated, the Corporation did on page
18 10, that its investment committee working group disagreed
19 with the recommendation to allocate significantly more to
20 US equities than Canadian equities. And it goes on to
21 state --

22 MR. JEREMY BELL: Page 10, sorry?

23 MR. WALTER SARANCHUK: Page 2, sorry, of
24 the response.

25 And it says in it that particularly

1 that's -- their basis for their disagreement is
2 particularly in light of the superior performance of the
3 Canadian equity market over the last nine (9) years, and
4 indicate that in addition, Portfolio 5 had an allocation
5 to equities of only 5 percent, which was deemed to be too
6 low, particularly given the Corporation's recent efforts
7 to increase the equity allocation to 20 percent.

8 What is your view of that rationale of
9 continuing with the level of Canadian equity weighting?

10 MR. JEREMY BELL: I'm not overly
11 supportive. I don't think that looking at the past nine
12 (9) years' performance of Canadian equities means much.
13 It doesn't mean much to me and -- as far as prospective
14 performance goes. Nor do I put much weight in the -- in
15 the Corporation's recent efforts to increase their
16 equities. That they've tried hard to increase their
17 equities, if it's not strategically the right place to be
18 right now, it doesn't mean much to me either.

19 Though I'm not opposed to the idea of
20 having more money in Canadian equities than US equities
21 than what we had in our report, I don't necessarily agree
22 with the rationale in that paragraph.

23 MR. WALTER SARANCHUK: Wouldn't investing
24 in the US market, which is broader than the Canadian
25 market, provide an opportunity for greater returns, as

1 well as diversification?

2 MR. JEREMY BELL: Most people would say
3 not greater returns. I think the old traditional thought
4 on foreign equities was perhaps that you get higher
5 returns. But most people would say it's about the same
6 type of return to expect and you -- your main benefit
7 will be diversification benefits versus Canadian
8 equities. And you'd get perhaps more diversification,
9 the fact that it's a bit broader than Canadian -- or a
10 fair bit broader than the Canadian equities.

11 MR. WALTER SARANCHUK: At the bottom of
12 page 19 of your report, sir, it states as follows, quote:

13 "Based on these projections and given
14 that the foreign currency exposure is
15 relatively low [bracket] (3.5 percent
16 for foreign equities) [end of bracket]
17 we recommend that the plan not hedge
18 its US currency exposure associated
19 with equity investments." End of
20 quote.

21 And of course MPI did indicate, for your
22 information, that it currently hedges this. Why did you
23 make the recommendation that you did there?

24 MR. JEREMY BELL: Well, it's part of a
25 study. We modelled whether or not hedging currencies

1 made any kind of a difference in terms of what the
2 returns would be prospectively that the Corporation would
3 enjoy. And it didn't really make any difference; it was
4 a mild negative.

5 So that was our recommendation
6 mathematically, whether or not this other rationale for
7 it, the model said don't hedge your currency.

8 MR. WALTER SARANCHUK: And at page 9 of
9 its -- of their report, Professors Hum and Simpson, and
10 this is the first full paragraph on page 9 indicate as
11 follows, quote:

12 "MPI's refusal to countenance a
13 stronger position in US equities
14 because of the superior performance
15 recently of Canadian equities, revealed
16 some flaws in their thinking.
17 The very fact that US and Canadian
18 equity performances can diverge is
19 usually [or sorry] is actually prima
20 facie evidence of the raison d'etre to
21 diversify in a portfolio. The issue
22 then is a matter of timing and it's
23 probably wise to take a position in US
24 equities, precisely when US equities
25 are inferior to the Canadian equity

1 performance. In the long run
2 regression to mean suggests that this
3 will yield superior return." End of
4 quote.

5 What is your view on that position?

6 MR. JEREMY BELL: It's hard to understand
7 it that -- I would say it's similar to my view on MPI's
8 position. I don't think that there is a phenomenal
9 rationale to be in US equities because of mean reverting.
10 I -- either one, MPI's position or Hum and Simpson's
11 position don't seem to trust the markets. They seem to
12 say -- one says good performance begets good performance;
13 the other one says bad performance begets good
14 performance.

15 I think either one of those are not
16 necessarily true and so I wouldn't -- I wouldn't put much
17 stock in it. I'd say the benefit would be still largely
18 diversification benefits which is, I guess, the first
19 half of their paragraph, which I'll agree with.

20 MR. WALTER SARANCHUK: And Hum and
21 Simpson also indicated that the timing might be right to
22 take a greater position in US equities, appropriately
23 hedged against currency risk, due to the recent inferior
24 returns as citing a return to long term averages will
25 result in superior returns.

1 What is Aon's view on this position,
2 relative to the -- its investment portfolio strategy?

3 MR. JEREMY BELL: Well, first off, Aon --
4 Aon advises boards and committees on a strategic mix. We
5 don't really provide much tactical decision making
6 advice.

7 So timing decisions aren't really in our
8 area of expertise. I -- I would hazard a guess it's
9 probably not within the area of expertise of -- of the
10 report, the Hum and Simpson report. If anyone has a
11 chance which -- it's difficult to make timing decisions
12 even for professionals that are trading all the time, I
13 would say it would be an active manager who's in the
14 market. We -- we make decisions on strategic asset mix.

15 So timing to me doesn't mean much. And
16 then the -- the discussion on it being a bad time, I
17 would say like I said before, bad returns don't mean good
18 returns, good returns don't mean good returns. The
19 market is probably smarter than the aggregate of the
20 people that I know.

21 MR. WALTER SARANCHUK: And you say that
22 notwithstanding the current situation?

23 MR. JEREMY BELL: The situation, as in
24 the people in this room or...?

25 Notwithstanding the current situation.

1 The mar -- the market knows more than -- more than
2 individual humans know. I mean, it's got more in it.

3 MR. WALTER SARANCHUK: Now, also stated
4 by Professors Hum and Simpson, and this is at page 9, the
5 second full paragraph. They indicate that, quote:

6 "The refusal by Aon to countenance
7 international equity, in our judgment,
8 is inexcusable. The fastest growing
9 economies in the world include Brazil,
10 Russia, India, and China [bracket]
11 (BRIC), [B-R-I-C, end of bracket] and
12 parts of Asia. The weighting for
13 Canadian equities, 12 percent, relative
14 to US, 5 percent, and the
15 international, 3 percent, appears
16 imbalanced for an investment portfolio
17 of MPI's size, currently at \$2
18 billion." End of quote.

19 Why did you not -- well, first of all, let
20 me ask you two (2) questions and you can answer them
21 together I guess.

22 What is your comment relative to that
23 statement by Hum and Simpson and why did you not model
24 international returns?

25 MR. JEREMY BELL: We did model

1 would this be a transition over a period of time?

2 MR. JEREMY BELL: Yeah, that would be an
3 implementation issue. So, I mean, whether they are or --
4 or not someone's comfortable making the sale of
5 everything now and the purchase of everything now, to me
6 wouldn't affect where they put their strategic asset mix.
7 They would end up putting their strategic asset mix where
8 they wanted it to be and then they'd find a way to get
9 there, either using cash flows or monies flowing in and
10 out of the fund and gradually getting there, if they
11 think the transactional costs are too high or some other
12 method.

13 But I wouldn't use that as a strategic mix
14 -- a policy mix decision.

15 MR. WALTER SARANCHUK: So the evolution
16 to the new portfolio could be done over a period of time?

17 MR. JEREMY BELL: Yeah, absolutely.

18 MR. WALTER SARANCHUK: What is your view
19 of MPI's decision to weight their portfolio more heavily
20 towards Canadian and EAFE versus US equities?

21 MR. JEREMY BELL: I don't know if they
22 are weighted all that heavily towards EAFE.

23 MR. WALTER SARANCHUK: And what about the
24 Canadian versus US equity?

25 MR. JEREMY BELL: Like I said, it's a

1 slight tilt towards Canadian equities, relative to what
2 the average investor would do. It -- perhaps the average
3 investor might take a couple percent out of Canadian
4 equities. Probably if -- if -- the average investor
5 would have 50 percent normally -- I mean, as a rule of
6 thumb, would have 50 percent of their money in Canadian
7 equities, 50 percent in foreign equities, and that 50
8 percent in foreign would be split 50 percent US, 50
9 percent EAFE. So if there was any money taken out of
10 Canadian, it wouldn't be going to US; it would probably
11 be going to EAFE to make 5 percent, as a general rule of
12 thumb for how people invest.

13 But it's a pretty slight tilt being 2
14 percent overweight in Canadian equities, relative to what
15 the average investor would do and 2 percent underweight
16 in EAFE.

17 MR. WALTER SARANCHUK: Thank you, sir.

18

19 (BRIEF PAUSE)

20

21 MR. WALTER SARANCHUK: Now, on the
22 proposition of segregating pension assets, the report,
23 your report, addresses this at page 3, at Section 1 of
24 the introduction, the second full paragraph, where you
25 give reasons for your view that it's reasonable to

1 bunch and I don't think I'm capable to go through it all,
2 because I -- you would need someone who was more
3 specialized in perhaps governance issues, and talk about
4 the full implemt -- implementation -- or implication to
5 MPI. But governance issues, autonomy over the pension
6 plan, wanting to perhaps have some better accounting
7 results, not having the liabilities show up right on
8 their balance sheets, because of how it looks.

9 But as far as investments go, we'd say
10 there isn't really an investment reason to do it, because
11 ultimately, investment wise, everything is rolled up. If
12 I go -- if they invest more aggressively in the pension
13 plan, and we roll everything up, the exact same modelling
14 would have them invest slightly less aggressively in the
15 -- the rest of their assets, because everything rolls up
16 to the exact same place from investments.

17 But non-investments, I mean I -- I'd just
18 be guessing, but there could be accounting, governance,
19 other types of reasons why they might want to do it, or
20 even employee relations, or whatever.

21 MR. WALTER SARANCHUK: At the bottom of
22 page 12 of your report, the second bullet from the
23 bottom, under the subtitle of Projection of Retirement
24 Liabilities, pension liabilities are indicated as
25 totalling, currently, \$137 million dollars, or at least

1 in 2007 they were \$137 million dollars, but would grow
2 steadily with expected increase volatility.

3 What do you mean by increased volatility
4 there?

5 MR. JEREMY BELL: Sorry, I think that the
6 quote may have been off there. The retirement liability
7 is expected to grow steadily over the projection period -
8 - period. The volatility of the retirement liability is
9 fairly low, so it's got low volatility.

10 MR. WALTER SARANCHUK: But increases over
11 the projection period?

12 MR. JEREMY BELL: Well, the volatility of
13 the return on -- on your -- or the volatility of your
14 liability is going to be related to Long Term Bonds.
15 Long-term bonds are going to -- as you project further
16 out, going to move further and further apart.

17 Some scenarios will have Long Term Bonds
18 in fifteen (15) years with yields of 6 percent. Some
19 will have Long Term Bonds with a yield of 2 percent in
20 fifteen (15) years. And that's kind of a -- a fan that
21 fans out towards the end of the projection period, which
22 will make the volatility a little bit higher as you go
23 further out.

24 In any -- in any projection it gets furth
25 -- bigger as you go further out.

1 As well, the dollar amount becomes a
2 bigger dollar amount too.

3

4 (BRIEF PAUSE)

5

6 MR. WALTER SARANCHUK: So it has to do
7 with the modelling assumptions more so than the
8 characteristics of the pension liability itself?

9 MR. JEREMY BELL: I'm not willing to say
10 more so, but I'd say -- I mean, if I were to hazard a
11 guess, they'd be about equal. So you have got a bigger
12 amount of money, but the volatility and -- and results at
13 the end of the period is going to be due to the fact that
14 you're going to have different bond yields, thus discount
15 rates for your liabilities.

16 MR. WALTER SARANCHUK: And would the
17 growth in the size of the pension obligation over time
18 ultimately make it more appropriate to segregate the
19 investment portfolio?

20 MR. JEREMY BELL: It wouldn't change a
21 thing from an investment perspective; it might change
22 something from a -- another perspective.

23 MR. WALTER SARANCHUK: What do you mean
24 by another perspective?

25 MR. JEREMY BELL: The same on the -- the

1 same amount of investment perspectives I talked about
2 before. So governance, employee relations, or whatever;
3 there could be a -- different reasons.

4 MR. WALTER SARANCHUK: Thank you, sir.
5 Returning to the Hum and Simpson report, and this is at
6 page 9, there is reference there to the topic of the
7 Absence of Real Return Bonds in the MPI Portfolio.

8 Do you see that, sir? Page 9.

9 MR. JEREMY BELL: It's page 10 on my copy
10 but perhaps there's different copies floating about. But
11 I see that on page 10 of mine.

12 MR. WALTER SARANCHUK: Others have shared
13 that problem.

14 Now Aon has recommended the elimination of
15 investments in Real Return Bonds, and I think you
16 addressed this earlier, but can you confirm what the Real
17 Return Bonds feature, in terms of inflation adjusted
18 return?

19 MR. JEREMY BELL: You mean what is the
20 expected return we have for bonds going forward or -- or
21 what is...?

22 MR. WALTER SARANCHUK: Well, what are the
23 characteristics essentially?

24 MR. JEREMY BELL: Real Return Bonds are
25 going to provide you with a coupon that increases with

1 Canadian price inflation. So whatever price you buy it
2 at it's going to be yielding something and then it'll be
3 growing -- that amount will be growing and the ultimate
4 amount you get paid back will be growing at Canadian
5 price inflation.

6 So it'll be perfectly correlated to
7 changes in Canadian price inflation.

8 MR. WALTER SARANCHUK: And you
9 recommended the substitution of real estate and
10 infrastructure for inflation protection, is that correct?

11 MR. JEREMY BELL: No. Not -- we -- we
12 made no explicit recommendation of one (1) asset class
13 versus another -- it's kind of like making a soup;
14 there's a lot of ingredients -- and real estate and
15 infrastructure came out.

16 Real estate and infrastructure,
17 qualitatively, when you discuss these, have inflation
18 protection but it wasn't like we said we need to have
19 some inflation protection, let's throw in this.

20 MR. WALTER SARANCHUK: Can you explain
21 how the characteristics of real estate and infrastructure
22 compare with Real Return Bonds as an inflation hedge?

23 MR. JEREMY BELL: Yeah. Less so and
24 maybe a little bit more -- or less -- less correlated
25 with the inflation and perhaps a little bit more

1 to inflation but obviously not as direct as -- as a Real
2 Return Bond.

3 MR. WALTER SARANCHUK: Could inflation
4 protection be selected as an objective for an ALM or an
5 asset liability model study?

6 MR. JEREMY BELL: No. I've never seen
7 it. It would be a fairly distinct issue. It -- it's
8 kind of cooked into what companies actually care about.
9 And what companies actually care about isn't inflation
10 protection; they care about, well how much do my
11 ratepayers have to pay, how much do my other people have
12 to pay?

13 So it's -- it's -- I'd say looking at just
14 that would be too small from what any one of our clients
15 would ever be interested in.

16 MR. WALTER SARANCHUK: And in the
17 evidence, sir, this is for the record at page 409 of the
18 transcript, one (1) of the MPI witnesses indicated, and
19 I'm quoting here:

20 "And included in the modified are real
21 estate as an asset class and
22 infrastructure as an asset class, which
23 are also inflation sensitive. So you
24 get the protection of that inflation
25 protection plus increased

1 diversification, which you would not
2 get with the Real Return Bonds." End
3 of quote.

4 Do you agree with that?

5 MR. JEREMY BELL: That sounds fair.

6 MR. WALTER SARANCHUK: Is there any
7 change in risk levels or reward levels between the Real
8 Return Bonds and the two (2) alternatives?

9 MR. JEREMY BELL: Yeah, if you're
10 directly comparing them, your Real Return Bonds will
11 generally, perhaps except for an extreme economic
12 distress, provide less returns than infrastructure or
13 real estate. So your returns will almost always be
14 higher from real estate and infrastructure.

15 As far as risk level goes, to the extent
16 that you have liabilities that are exactly matched to
17 CPI, Real Return Bonds will be better, but it's -- it's
18 an extreme price to be paying for that level of
19 insurance.

20 MR. WALTER SARANCHUK: Can you give us an
21 idea of -- in your view, what MPI should consider to, as
22 acting inflation hedge; that is, what types of real
23 estate or infrastructure?

24 MR. JEREMY BELL: Id' say any of them.
25 Not REITs, which would be Real Estate Investment Trust,

1 but direct ownership of real estate. Not MPI actually
2 buying buildings, but investing in a pooled-fund where
3 the pooled-fund holds geographically diversified --
4 diversified by property type: retail, industrial, multi-
5 unit, residential, commercial.

6 Over time, all real estate should be
7 pushed by the same factors, which is how much does it
8 cost to build and replace this product with some land-
9 specific prices. All that would be domestic, here in
10 Canada, so you would get a fairly direct CPI or -- or
11 inflation protection in Canada.

12 Infrastructure, you're going to get more
13 global inflation protection. There aren't really that
14 many infrastructure funds where you can get much Canadian
15 exposure. There'd be the odd North American fund and it
16 would have a minimal amount of Canadian exposure, more in
17 -- in the US. And this would be like a -- a pooled-fund
18 where you'd put in -- you'd make a commitment and you'd
19 buy fifteen (15) different projects. And the projects,
20 we wouldn't specify, but it would be generally accepted
21 by the larger pooled-funds of -- of infrastructure
22 products or -- or limited partnerships of infrastructure
23 products.

24 MR. WALTER SARANCHUK: And now, sir,
25 turning to the Hum and Simpson report, which, in my copy,

1 is at the -- the quote that I'm going to give you is at
2 the top of page 10 and it starts with the words:

3 "MPI appears to have followed Aon's
4 advice."

5 And then it says, quote:

6 "Aon has essentially calculated their
7 optimal investment frontier without
8 regard to possible future inflation
9 risk. [bracket] (Aon assumes that
10 future inflation will be within the
11 Bank of Canada's current target range
12 for the duration of the horizon of the
13 portfolio and implicitly that MPI is
14 willing to accept this inflation range
15 [bracket] (MPI's forecast is based on 2
16 percent for the next five (5) years)
17 [end of bracket]."

18 And in dealing with -- or after making
19 that comment there is reference to the -- what I can term
20 the inflation footnote, in your report at page 17 at the
21 bottom.

22 And can you comment on Hum and Simpson's
23 observation?

24 MR. JEREMY BELL: Generally true. MPI
25 did appear to follow our advice. We didn't calculate our

1 optimal investment frontier without regard to possible
2 future inflation risk. So we assumed 2 percent inflation
3 and with the MPI assumptions, 2 1/4 percent inflation,
4 with a 1 percent standard deviation, which means that
5 it's generally going to be between, in most scenarios, 1
6 and 3 percent, though it can get to the extreme levels of
7 maybe 4 or 5.

8 But we're not getting -- we're not
9 modelling scenarios where future inflation's sitting in
10 the -- much of a higher range than that, although perhaps
11 it could get to an extreme level. It would be pretty
12 remote with that type of assumption.

13 So I agree that we didn't -- we're not
14 modelling 6, 7, 8, 9, 10 percent inflation, which would
15 have made Real Return Bonds become more attractive. It
16 would have made -- it would make real estate generally
17 become more attractive, too, and infrastructure more
18 attractive too. So I'm not -- it's not necessarily true
19 that Real Return Bonds would even still be the thing
20 then, but they would obviously be more attractive in --
21 if inflation isn't in that 1 to 3 percent band.

22 MR. WALTER SARANCHUK: What is your
23 current view of the inflation environment?

24 MR. JEREMY BELL: We're still using --
25 we're still using the same assumption. Core inflation is

1 above two (2) now, but ultimately our assumption is that
2 the Bank of Canada, since setting all of its new rate
3 regime in the early '90s, targeting between 1 and 3
4 percent with a target -- or allowable range of one (1) to
5 three (3) with a target of two (2), they've shown
6 reasonable ability at doing it. They don't have any
7 other, like, economic goals. Their only goal is to keep
8 their inflation target there. And they have complete
9 supply of the money.

10 So to the extent that the political will
11 still is there, keeping it within that one (1) to three
12 (3) range should be possible.

13 The problem -- I mean, the problem -- only
14 problem that's possible could be the economy is doing
15 very poorly and they have to further choke-off the money
16 supply to keep inflation down. And that's the times
17 where inflation might get outside that one (1) to three
18 (3) range.

19 But without having to worry about the
20 economic -- economic stability of -- of the country, that
21 would be a fairly extreme scenario.

22 MR. WALTER SARANCHUK: So how does your
23 view impact your optimal portfolio?

24 MR. JEREMY BELL: Well, it doesn't.
25 Ultimately, I -- I'd still say 2 percent with a standard

1 deviation of 1.1 percent is a reasonable portfolio. And
2 even if I thought inflation was a fairly extreme problem,
3 I -- I still think there's enough inflation protection in
4 the portfolio -- as a qualitative thing -- this is going
5 away from the modelling, because ultimately you have to
6 decide whether or not you can implement this, I still
7 think that the inflation protection in real estate and
8 infrastructure is fairly strong and the inflation
9 protection in equities is actually fairly reasonable.

10 If you're a company and you've built up
11 this company and inflation skyrockets while competitors
12 have to pay a lot more money to try and compete with you
13 now -- the competitors that didn't exist before, so it
14 increases your pricing power, not perfectly with
15 inflation, but generally it should be with inflation,
16 unless economic times are terrible.

17 So there's a bias with MPI's portfolio
18 that it's going to do well to the extent the economy
19 doesn't do very, very poorly over the next fifteen (15)
20 years.

21 MR. WALTER SARANCHUK: Thank you, sir.
22 Those are all my questions of this witness, Mr. Chairman.

23 THE CHAIRPERSON: Thank you, Mr.
24 Saranchuk. We're going on to Mr. Williams, but before we
25 do, I've got a couple of questions here.

1 QUESTIONS BY THE BOARD:

2 THE CHAIRPERSON: When you get into your
3 base assumptions, do you assume that a loss that was due
4 to investment volatility would drive a premium increase?

5 MR. JEREMY BELL: I will need to check.
6 What we actually set it based on exactly what -- well,
7 let me just look in our assumptions.

8

9 (BRIEF PAUSE)

10

11 MR. JEREMY BELL: So -- well no, but only
12 to the extent -- well, not a loss from investments but to
13 the extent that they're outside the rate stabilization
14 reserve number there's going to be a premium increase,
15 that's what we've assumed.

16 THE CHAIRPERSON: So it's the same thing.
17 In other words if -- if a loss developed, your assumption
18 would be there would be a premium change?

19 MR. JEREMY BELL: Yeah. But perhaps it's
20 parsing language, but it's only if the loss is outside
21 the rate stabilization reserve. Like, if they're at the
22 top-end of the range and there's a loss of not quite the
23 same amount as the range, that's not a premium increase,
24 so.

25 THE CHAIRPERSON: But if it did take it

1 outside the range, your assumption is there would be a
2 rate -- rate change?

3 MR. JEREMY BELL: Yes.

4 THE CHAIRPERSON: Just to confirm, from
5 your perspective volatility is a risk, correct?

6 MR. JEREMY BELL: No. Well, I mean
7 volatility is what some people may call risk. We're not
8 calling volatility risk here; we're saying asset
9 liability mismatch is the risk. And -- and that can be
10 driven by volatility, but it's sort of a -- let's call it
11 a sub-risk and not something we're actually dealing with
12 directly.

13 THE CHAIRPERSON: Okay. Then is a
14 mismatch in a competitive and private market different
15 than one that's a Crown corporation monopoly?

16 MR. JEREMY BELL: Is the mismatch
17 different? Or do they take different positions? Are they
18 closer matched in other companies or does it affect a
19 public company differently?

20 THE CHAIRPERSON: Does it affect the
21 types of recommendations that you might put forward? The
22 environment that you're dealing with. Like, a comparison
23 to say, for example, a private competitive business, as
24 opposed to a public monopoly?

25 MR. JEREMY BELL: No, that's driven large

1 -- well, the objectives are largely driven by what MPI
2 tells us the objectives are, so obviously that's going to
3 be flavoured -- obviously that's going to be flavoured by
4 whether they're a public monopoly or whether they're a
5 private company. So they've set those objectives.

6 And where we ultimately choose affects
7 where we think the tradeoff is, but where they ultimately
8 go affects their understanding of where they are. So
9 perhaps they may choose something different than a
10 private company may ultimately choose, and they're not
11 subject to the exact same regulatory regimes -- regimes
12 for insurance investment. But there isn't really any
13 kind of modelling difference or recommendation difference
14 once we get given some direction from MPI.

15 THE CHAIRPERSON: If you were giving the
16 recommendations to a client, along this line of work,
17 where the client didn't provide the objectives, would you
18 look to the difference of the client as opposed to the
19 type of other structure it may have?

20 MR. JEREMY BELL: I don't -- I don't
21 think it's possible that we would do this without given
22 an objective from the client. I mean, we -- we are -- we
23 need direction to know what's important to them. We'd
24 just be guessing otherwise and it -- and it wouldn't be a
25 -- a useful exercise. And I can't imagine being hired

1 without that -- that situation.

2 I mean, if we had to fully understand MPI,
3 where it sat inside of Manitoba, and -- and what its --
4 what its sensitivities were, this project couldn't
5 happen, and we couldn't make those assumptions, and we
6 wouldn't do the project.

7 THE CHAIRPERSON: Just to confirm, the
8 Portfolio Number 21, on page 70, the asset mix is
9 considerable different than the recommendations you gave
10 where the selection that was finally made.

11 Is Portfolio Number 21 within the
12 efficient frontier?

13 MR. JEREMY BELL: It's -- yes, it's
14 optimal within efficient frontier.

15 THE CHAIRPERSON: And it would be
16 predicted to have a higher excess return?

17 MR. JEREMY BELL: Than every other
18 portfolio, but included what they -- what MPI ultimately
19 chose, yeah.

20 THE CHAIRPERSON: And a higher
21 probability of having an excess return?

22

23 (BRIEF PAUSE)

24

25 MR. JEREMY BELL: The probability of a

1 positive excess return would be fairly similar.
2 Portfolios 14 to Portfolio 21 all have a 61 percent
3 chance of a -- of a positive excess return.

4 So that it provides a higher excess return
5 doesn't necessarily mean it's going to have -- it's just
6 going to have more extremes, so it's going to have --

7 THE CHAIRPERSON: It is in the group that
8 has a higher probability --

9 MR. JEREMY BELL: It's in the group with
10 the -- with the highest probability, yeah.

11 THE CHAIRPERSON: Mr. Saranchuck touched
12 on this -- this is a different question -- but MPI has
13 selected a different portfolio than the one that they
14 have right now.

15 The evidence that we had before you
16 arrived did not give us any sense of how long it would
17 take them to move towards the portfolio that they have
18 selected.

19 What would be a reasonable period of time,
20 in your mind, to move from where they are to transition
21 to the asset mix that they have picked?

22 MR. JEREMY BELL: To fully get there,
23 four/five (4/5) years. A lot of it's fairly easy, but
24 private equity and infrastructure take a lot of time to
25 actually build up to what your commitment level is. Real

1 estate may take a fair bit of time too. And I think
2 starting all those searches at the exact same moment to
3 get those managers in place, to do three (3) at once is,
4 you know, a bit much. So let's call it four (4) years.

5 THE CHAIRPERSON: The current portfolio
6 you measured is -- based on your calculations, provides
7 an expected excess return of zero, correct?

8 MR. JEREMY BELL: 0.22 percent based on
9 MPI's expected return -- MPI's assumptions. And based on
10 our assumptions -- so I'm looking at page 27 of the
11 report has that 0.22 percent number.

12 THE CHAIRPERSON: I'm looking at page...

13 MR. JEREMY BELL: Page 32 is zero. So
14 using -- using Aon's assumptions, yes, it's zero percent.

15 THE CHAIRPERSON: Is there any -- given
16 the time that it takes to do these investments that you
17 are talking about, is there any transitional steps that
18 provide a higher excess return as one moves towards that,
19 given that it takes longer to do it? It's equally safe
20 from MPI's perspective?

21 MR. JEREMY BELL: Yeah. I -- I would
22 need to think about that, but largely no. But they
23 could...

24

25

(BRIEF PAUSE)

1 MR. JEREMY BELL: Yeah, I'd say not
2 really. Most of the change is in the alternatives -- and
3 that's going to take a while to get into -- I -- if -- if
4 -- they could put a bit more money into equities
5 currently as a parking spot for it, but the difference
6 would be relatively marginal as a transition to get it
7 from where it is into alternatives. As well, it's not
8 necessarily a natural thing to have more money in
9 equities to replace your real estate or your
10 infrastructure.

11 Perhaps your private equity 5 percent
12 allocation, you might say put that into EAFE equities
13 right now and maybe a little bit of your real estate and
14 -- and infrastructure allocation, but not the full
15 amount, because those are kind of, I would say, as a rule
16 of thumb half bonds, half equity.

17 So maybe you could put a little bit more
18 into equities right now as a parking spot, but
19 ultimately, you're going to be held up by just the time
20 it's going to take you to get into those. And there
21 aren't really many way to get to dab your toe into either
22 -- any of those all that nicely.

23 You can buy REITs, Real Estate Investment
24 Trusts, for real estate. Not ultimately recommended.
25 It's got fairly high volatility. It's very much like

1 equities anyways so...

2 THE CHAIRPERSON: Thank you, Mr. Bell.
3 Okay. We'll move now to Mr. Williams for CAC/MSOS.

4

5 CROSS-EXAMINATION MR. BYRON WILLIAMS:

6 MR. BYRON WILLIAMS: Thank you. Thank
7 you, Mr. Chairman and Members of the Board.

8 Mr. Bell, welcome. I guess welcome to
9 Manitoba. You're from BC, is that right?

10 MR. JEREMY BELL: I am, yeah.

11 MR. BYRON WILLIAMS: Okay, welcome.
12 Perhaps just in terms of your report and I -- I don't
13 think I'll be too long. Mr. Saranchuk has plowed fertile
14 ground.

15 But perhaps if you could turn to page 21
16 for just one (1) second, please?

17

18 (BRIEF PAUSE)

19

20 MR. BYRON WILLIAMS: And -- and you did
21 have a bit of a discussion with Mr. Saranchuk, both about
22 the base assumptions -- what I'm going to call them --
23 and the -- the sensitivity assumptions.

24 You recall that earlier today, sir?

25 MR. JEREMY BELL: Yes.

1 MR. BYRON WILLIAMS: And just in the
2 third full paragraph on this page, and again you
3 discussed this with Mr. Saranchuk but I have a few
4 questions I want to follow up on, the first sentence
5 states:

6 " In the alternative assumptions used
7 for the sensitivity optimization, the
8 return and standard deviation
9 assumptions were derived by assuming
10 that the yield curve would tend to
11 revert towards its mean shape and
12 height over time."

13 Do you see that, sir, that statement?

14 MR. JEREMY BELL: Yes. Yeah.

15 MR. BYRON WILLIAMS: And just if you
16 could -- again recognizing that you've had some
17 discussion on this -- elaborate for me, just somewhat,
18 what you mean by that statement, sir.

19 MR. JEREMY BELL: Sure. The -- the yield
20 curve, which is a -- a curve telling you how much money
21 you'd get if you were investing in and more -- more often
22 than not people use the Government of Canada yield curve
23 so more -- if you're investing in a Government of Canada
24 payment that was paid at a certain time, the yield curve
25 tells you what that is. So you go across the yield curve

1 and say if I had bought a two (2) year piece of paper,
2 nothing being paid beforehand, I'm getting 3 percent. If
3 I go across there, I look at a ten (10) year piece of
4 paper, without the coupons on it, and say oaky, I'm
5 getting four (4) and then what's a twenty (20) year piece
6 of paper worth? Well, it's worth 5 percent.

7 The yield curve has a certain shape right
8 now, which is relatively flat, so the -- the difference
9 between the yields on Universe Bonds and Long Term Bonds
10 isn't that much, relative to what it has been in the
11 past. And the level of short-term interest rates, that
12 varies based on what the Government of Canada does, and
13 how they set their -- their policy interest rates.

14 So -- and I -- I don't know exactly where
15 that is right now, but it looks -- I think it's in the 3-
16 ish percent range or -- and back here it was higher.

17 Ultimately, what we're expecting is that
18 the yield curve from what it was at the time that we
19 started, is going to go towards what the yield curve
20 generally looks like. So as a -- as an expectation what
21 the yield curves look like over some period of time is
22 going to happen again.

23 It's not -- there's plenty of -- of
24 shaking going on here. We're not saying it's going to do
25 that. It's more of a -- that's our standard assumption

1 and then let's make the volatility happen around there.
2 So we're -- we're having plenty of scenarios where the
3 yield curve is doing radically different things, but
4 overall as a trend that, in our thousand scenarios that
5 we do, the median scenario is going towards a mean
6 reverting yield curve going towards what the yield curve
7 generally looks like.

8 MR. BYRON WILLIAMS: Thank you very much
9 for that. And just -- the assumption -- just in -- in
10 terms of it reverting towards its mean shape and height
11 over time, in a poor humble lawyer's lay words, it will
12 be less flat.

13 Is that what you're telling me, sir?

14 MR. JEREMY BELL: That's basically it.
15 And perhaps a little higher at the back-end, but let's
16 call it curvier.

17 MR. BYRON WILLIAMS: Just working through
18 the sent -- this paragraph just a little bit more, if I
19 might, aiming towards a taller and curvier curve.

20 The next sentence is:

21 "These changes in the yield curve would
22 drive returns on fixed income assets
23 directly."

24 And affecting others as well. But just in
25 terms of what you mean by driving returns on fixed income

1 assets directly a little more explicitly more, sir.

2 MR. JEREMY BELL: Sure. Fixed income,
3 the return you get on fixed income, I'll -- I'll use two
4 (2) examples: Short Term Bonds and Long Term Bonds. In
5 fact cash and Long Term Bonds.

6 For cash you get whatever the current
7 yield is on cash. The changes in the yield curve don't
8 really mean much but when you projecting over fifteen
9 (15) years, the changes in where the cash rate is from
10 today to five (5) years from now, that's how you're
11 reinvesting your cash at. So where that's ultimately
12 going to go is if I started at a yield curve where the
13 cash was, the cash rate was 2 percent and ultimately it
14 got to 4 percent and it moved there gradually, then over
15 time, over the next fifteen (15) years you're going to be
16 assuming about a 3 percent return on cash, because you're
17 going to be getting a low rate for the first ten (10)
18 years and a slightly higher rate for the last -- for the
19 last ten (10) years.

20 For long -- for longer term rates there's
21 -- the effect of reinvestment is a little bit less
22 because you're buying a Long Term Bond that has a term to
23 maturity of beyond ten (10) years, so you tend to hold
24 those for most of the time.

25 The main -- the main effect on the returns

1 on Long Term Bonds is going to be, if interest rates
2 decline the value of Long Term Bonds increase, and if
3 interest rates increase the value of Long Term Bonds go
4 down. So it's going to be some invest -- some factor of
5 reinvestment but some factor of -- of most of the factor
6 of how it changes the interest rates.

7 MR. BYRON WILLIAMS: Thank you -- thank
8 you for that. I believe when you were discussing the --
9 this topic with Mr. Saranchuk earlier today, I think you
10 indicated that the assumptions found in this paragraph,
11 kind of the third paragraph, are the assumptions that Aon
12 would -- would typically use.

13 Is that fair, sir?

14 MR. JEREMY BELL: That's correct, yeah.

15 MR. BYRON WILLIAMS: And if -- if I were
16 -- and if I were to compare those to the base case
17 assumption, focussing specifically on the -- the yield
18 curve, in the base case the assumption is that the yield
19 curve is effectively fixed at its current level for the
20 duration of the projection period.

21 Is that right?

22 MR. JEREMY BELL: That's right.

23 MR. BYRON WILLIAMS: Just in getting down
24 to brass tacks, recognizing that the -- the sensitivity
25 optimization or the -- the assumption that -- that the

1 yield curve will -- will tend to revert towards its mean
2 shape and height over time is your typical assumption, if
3 I were to ask you in your professional opinion which of
4 these two (2) assumptions is more -- more reasonable,
5 which -- which would you choose, sir?

6 MR. JEREMY BELL: More reasonable, I'd
7 choose mine, but -- or mine, the mean reverting yield
8 curve. Though reasonable I'd say both so.

9 MR. BYRON WILLIAMS: It's the one you
10 prefer?

11 MR. JEREMY BELL: Yes. I mean for any --
12 for any client, normally we would just use mine, or
13 Aon's.

14 MR. BYRON WILLIAMS: For a couple minutes
15 then I -- I want to just focus on your Aon assumptions
16 and if I -- if I wanted to look at how those are
17 portrayed graphically, I think I'd ask you to turn to
18 page 30.

19 Would that be right, sir?

20 MR. JEREMY BELL: That would be -- well,
21 that wouldn't display what the assumptions look like
22 graphically; that would display what optimal portfolios,
23 using my assumptions, would look like, yeah.

24 MR. BYRON WILLIAMS: And thank you for
25 your precision. You've -- that asks this question better

1 than -- or you've answered it better than it was asked
2 and I appreciate that.

3 And just again, if I look at Chart 5,
4 based on your preferred assumptions, just so I'm
5 understand this correctly, in the -- towards the bottom
6 right-hand corner is the dot -- and realize, I don't have
7 colours, sir. That's --

8 MR. JEREMY BELL: Me neither. Me neither,
9 so --

10 MR. BYRON WILLIAMS: Okay. That's the
11 current portfolio in the bottom right?

12 MR. JEREMY BELL: Yes.

13 MR. BYRON WILLIAMS: Is that right, sir?

14 MR. JEREMY BELL: Yeah.

15 MR. BYRON WILLIAMS: And so on -- on
16 these assumptions, its excess return is in the range of
17 zero. Am I reading this correctly?

18 MR. JEREMY BELL: You are. I think it's
19 minus zero point zero two (-0.02) --

20 MR. BYRON WILLIAMS: Okay.

21 MR. JEREMY BELL: Zero, let's call it.

22 MR. BYRON WILLIAMS: And in terms of its
23 fifteen (15) year annual average -- average annual
24 standard deviation of the excess return, it's a bit above
25 4 percent.

1 Would that be right?

2 MR. JEREMY BELL: That's correct.

3 MR. BYRON WILLIAMS: And just at a very
4 simplistic level, if I'm looking on the lefthand side,
5 excess return gives me an idea of the -- the improved
6 opportunities for return, whereas the -- the bottom line,
7 the standard deviation, gives me some sense of increased
8 risk.

9 Is that fair, sir?

10 MR. JEREMY BELL: Yeah, exactly. I'll
11 even go one (1) step further. I look at that and say
12 it's got a standard deviation of the excess return of 4
13 percent. It's got no -- no average annual excess return.
14 In poor scenarios, you're going to be losing about 4
15 percent in a year, and very bad scenarios, 8ish, 10ish
16 percent.

17 So that gives you a magnitude of what that
18 actually means in real life for a company.

19 MR. BYRON WILLIAMS: I appreciate that.
20 And I don't always invite witnesses to go further but,
21 you know, that -- that was fine. And just to use what
22 I'm assuming is not an actual actuarial term of art, but
23 the free lunch situation arises from the current
24 portfolio definitely up and to the left.

25 Is that -- is that what you're suggesting,

1 sir?

2 MR. JEREMY BELL: Yeah, everything that's
3 up in to the left is free lunch, though everything on the
4 optimal curve is -- is equivalent to the free lunch or
5 so. I call the curve, kind of -- they're all the same
6 sort of thing but -- but the obvious free lunch ones,
7 relative to the current portfolios, would be Portfolios 3
8 to 11.

9 MR. BYRON WILLIAMS: And -- and so just
10 hypothetically, if you were looking at a corporation that
11 did not want to assume additional risk beyond its current
12 portfolio -- just -- you'll assume that with me, sir?

13 MR. JEREMY BELL: Yeah.

14 MR. BYRON WILLIAMS: Then if I went up --
15 up -- straight up or slightly to the left, the -- the two
16 (2) ones that look that most promising in that regard
17 would be Portfolios 10 and 11.

18 Would that be -- that be fair?

19 MR. JEREMY BELL: Well, you're saying
20 that -- don't want to assume more risk. I'd say
21 Portfolios 1 to 11 would be fine but, I mean, 10 or 11 if
22 you want to assume the same level of risk effectively.

23 MR. BYRON WILLIAMS: Okay. And let me
24 rephrase that. Let's say if the question was: I want
25 the highest possible return but no risk more than the

1 current portfolio, 10 and 11 would be the --

2 MR. JEREMY BELL: That's correct.

3 MR. BYRON WILLIAMS: -- the hot ones, is
4 that right?

5 MR. JEREMY BELL: That's correct, yeah.

6 MR. BYRON WILLIAMS: And, Mr. Chairman,
7 I'm -- I'm going to be about probably 45 minutes or so,
8 maybe a bit more. I can break now or I can keep going.
9 What -- I'm at the pleasure of the Board.

10 THE CHAIRPERSON: I think we will break
11 now. We will try to come back by 1:15. We have got
12 something to prepare for this hearing, so we will give it
13 a shot for 1:15. Thank you.

14

15 --- Upon recessing at 12:00 p.m.

16 --- Upon resuming at 1:19 p.m.

17

18 THE CHAIRPERSON: Okay. Welcome back,
19 Mr. Bell, in particular. Mr. Williams...?

20 MR. BYRON WILLIAMS: I was wishing I
21 would have got as warm a welcome back as Mr. Bell, Mr.
22 Chairman, but I'll -- I guess that will suffice.

23 I should welcome on my -- on behalf of my
24 clients, a Ms. Lori Baldwin from CAC, is somewhere hiding
25 back by the water cooler. So she'll be observing. Ms.

1 Desorcy is unable to make it today.

2

3 CONTINUED BY MR. BYRON WILLIAMS:

4 MR. BYRON WILLIAMS: Mr. Bell, I -- when
5 -- when we broke for lunch we were talking about page 30
6 of your report, looking at some of the assumptions based
7 upon your preferred scenarios. And -- and I think we had
8 agreed, with an answer that was better than the question,
9 that if I was looking for -- along the efficiency
10 frontier, for the -- the points where the -- the highest
11 return, whilst -- whilst still within the risk, as
12 measured by average annual standard deviation of the
13 current portfolio, I might be looking to Portfolio's
14 Number 10 and Number 11.

15 Is that right, sir?

16 MR. JEREMY BELL: Yes.

17 MR. BYRON WILLIAMS: And if I was just --
18 and if you could just turn to page 31, if you would, sir.

19 If I look at page 31, in the middle of the
20 page, I'll actually see the proposed asset allocations
21 for these portfolio's we were just speaking of, Number 10
22 and Number 11.

23 Is that correct, sir?

24 MR. JEREMY BELL: Yes, Number 10 is
25 highlit, because that's recommended, but we see both.

1 MR. BYRON WILLIAMS: And just in terms of
2 -- I want to just, you know, take a few moments to walk
3 through the characteristics of both these two (2)
4 portfolios. And again, I will step a little bit on what
5 Mr. Saranchuk has talked about before but I'll -- I'll
6 try not to tread too heavily.

7 I'll see the first thing, in both
8 Portfolios 10 and 11, is that there are no recommend --
9 no recommended Universe Bonds but there is 50 percent
10 allocation to Long Term Bonds.

11 Is that right, sir?

12 MR. JEREMY BELL: Yes.

13 MR. BYRON WILLIAMS: And you'll correct
14 me if I'm wrong, but as I understand your evidence to Mr.
15 Saranchuk this morning, and your preference for Long Term
16 Bonds, as opposed to Universe Bonds, relates to a fair
17 degree to the reduction -- or the benefits of
18 diversification, the reduction and the relative risk.

19 Am I right, sir?

20 MR. JEREMY BELL: No, not diversification
21 but the match to your liabilities. so your liabilities
22 move more like Long Term Bonds than like Universe Bonds.

23 MR. BYRON WILLIAMS: So it's to match the
24 liabilities. Now in terms of return itself between those
25 two (2) categories, what -- what, if any, differences do

1 you see?

2 MR. JEREMY BELL: I'll turn to --
3 consistent with the same chart we were looking at, we'll
4 turn to page 39. We have the return on Long Term Bonds
5 as 5.4 percent expected over the next fifteen (15) years,
6 that's an annualized return, versus Universe Bonds at 5.0
7 percent. So you're looking for a .4 percent return
8 difference.

9 MR. BYRON WILLIAMS: So from your
10 perspective, there's benefits in terms of matching and
11 some modest benefits in terms of return as well.

12 Is that fair?

13 MR. JEREMY BELL: That's how I'd
14 characterize it, yeah.

15 MR. BYRON WILLIAMS: And just -- just so
16 I have your point clearly, in your discussion at page 22
17 of the -- the sensitivity analysis which is what we're --
18 we're talking about now, page 22, the second bullet,
19 you'll see the statement:

20 "Universe Bonds were less attractive to
21 Long Term Bonds and that -- and thus
22 were not considered in the final step
23 of the optimization."

24 That's your position?

25 MR. JEREMY BELL: Yes.

1 MR. BYRON WILLIAMS: And presumably, it's
2 because of the two (2) reasons we just announced.
3 Universe Bonds have a -- the return is slightly lower as
4 well as the -- the matching issue.

5 Is that right?

6 MR. JEREMY BELL: Yeah. I mean, I'd say
7 it's -- even if the returns were the same, we'd probably
8 come up with Long Term Bonds. So I'd say it's almost
9 entirely the matching issue but there are some other
10 modest -- modest benefits.

11 MR. BYRON WILLIAMS: Now, when I -- I
12 realize we're bouncing back and forth a little bit but
13 going back to page 31 again, which is your Asset
14 Allocation of Optimum Portfolios, and again looking at
15 Portfolios 10 and 11, we see Manitoba Bonds at 20
16 percent, and that's an allocation across the line.

17 Is that right, sir?

18 MR. JEREMY BELL: That is. That -- that
19 was a constraint of the study.

20 MR. BYRON WILLIAMS: And that was a
21 constraint directed by Manitoba Public Insurance
22 presumably, sir?

23 MR. JEREMY BELL: Yeah. I mean, I won't
24 parse out exactly who it was because it was a -- I
25 presume the investment consult -- or investment committee

1 working group but it was from the client.

2 MR. BYRON WILLIAMS: Fair enough. Going
3 down to equities just for a second, without going to the
4 numbers per se, whether I'm looking at Portfolio 10 or
5 Portfolio 11, would I be correct in suggesting to you
6 that your recommended portfolios or the -- these
7 portfolios, excuse me, are more heavily weighted to US
8 equities than to Canadian equities, sir?

9 MR. JEREMY BELL: Yeah.

10 MR. BYRON WILLIAMS: And, again, is that
11 primarily for -- well, let's start, is that primarily for
12 the reason of diversification, sir?

13 MR. JEREMY BELL: That would be primarily
14 for the reason of the diversification. So it would have
15 a similar standard deviation assumption. There's --
16 there's three (3) drivers: returns, standard deviations,
17 correlations. Correlation being where the
18 diversification comes from, standard deviation being how
19 much an asset class shakes around, and returns being how
20 much you're supposed to get out of it.

21 US equities, I think get a slightly higher
22 return than the others so that's going to be a plus for
23 it, relative to some of the other equity asset classes.
24 Correlations, I don't -- I mean I -- I can't recall them
25 off the top of my head but I think they are pretty

1 similar. But a standard deviation, pretty similar.

2 So -- but it would -- but it wouldn't be
3 diversification; it would be a main reason and a slight
4 return difference between them.

5 MR. BYRON WILLIAMS: Excuse me. And in
6 terms of the diversification, if you could just elaborate
7 on that point a bit more for me, sir.

8

9 (BRIEF PAUSE)

10

11 MR. JEREMY BELL: Turn to page 42 in the
12 report.

13 MR. BYRON WILLIAMS: I have it.

14 MR. JEREMY BELL: Okay. Diversification
15 shows up by the fact that US equities will be -- will
16 move a little less like other asset classes that you'll
17 invest in. So if you look at the US Equities Large Cap -
18 - sorry, I'll slow down -- US Equities Large Cap column,
19 and you compare to what Canadian equities have, the lower
20 the better. So the lower, the more diversification
21 benefits that you get and if it's negative the more
22 diversification benefits you get in investing with it.

23 So if I compare the US Equities Large Cap
24 column to the Canadian Equities Large Cap column as an
25 example, you can see where the diversification benefits

1 come from a portfolio level. I'm not looking at
2 individual stocks because each one of one will be higher
3 -- or each mandate you get into is going to be
4 diversified by stock, so we'll kind of ignore that as a
5 diversification issue.

6 If you look at the column on Canadian
7 Equities Large Cap, almost all those numbers are a little
8 bit higher than the US Equities Large Cap. Us Equities
9 moving a little less similarly to the other asset classes
10 than Canadian Equities Large Cap. So there's some
11 correlation diversification benefits, however exactly you
12 want to say it; a little bit more being with US equities
13 than being with Canadian equities.

14 It's not a major difference. It's not
15 like one is fundamentally different from the other, but
16 the models going to pick up minor differences and have
17 preferences towards things that -- that mathematically
18 are -- are better.

19 MR. BYRON WILLIAMS: Thank you for that.
20 And -- and you also -- you also mentioned some
21 differences in return and my -- my assumption is that
22 those assumptions show up on pages 39 and 40.

23 Is that right, sir?

24 MR. JEREMY BELL: That's correct.

25 MR. BYRON WILLIAMS: And if you could

1 just run me through those --

2 MR. JEREMY BELL: Sure.

3 MR. BYRON WILLIAMS: -- those differences
4 as well, please.

5 MR. JEREMY BELL: So the expected return
6 on Canadian equities we have at 8 percent. That's the
7 bottom of page 39. So that's going to be the return over
8 time. And I'll even just add, the standard deviation is
9 14.5 percent so that's a guide of how much the -- the
10 returns are going to be shaking around over time.

11 Page 40 has the returns on US equities.
12 We'll look at Large Cap at 8.5 percent versus 14.4
13 percent for standard deviation. So it's slightly less --
14 standard deviation, higher expected return.

15 Now the expected return there is -- is
16 being driven by interest rates in different countries.
17 So there's a little bit of a difference in -- if interest
18 rates in different countries tell you something about
19 what the exchange rate is now and what -- what the
20 exchange rate might be in fifteen (15) years, there's a
21 slight adjustment for it. So there's a slight higher
22 return in US equities expected prospectively than
23 Canadian equities because of the interest rate
24 difference.

25 We have the exact same assumption for the

1 equity risk premium and it's applied to the same Canadian
2 cash; it's just adjusted a little bit for interest rate
3 differences.

4 International equity which would be the
5 EAFE equity is two (2) rows below and that's got a 7.8
6 percent expected return. So it does have a -- a return
7 difference for US equity that's making it show up in --
8 in slight better correlations.

9 MR. BYRON WILLIAMS: Okay, thank you --
10 thank you very much for that. And just going back again
11 to page 31 for a moment.

12 Again, looking at those two (2) columns,
13 can -- sorry, I'll wait -- are you there?

14 MR. JEREMY BELL: Yes.

15 MR. BYRON WILLIAMS: Look at those two
16 (2) columns, 10 and 11 and I'm going to give the heading
17 of Alternative Investments. I don't know if you'll
18 accept that or not, but whether it's Canadian real
19 estate, private equity or infrastructure, I guess there's
20 a small difference between the two (2) portfolios, with
21 Portfolio Number 10 having about 20 percent versus
22 Portfolio 11 having 15 percent.

23 Is that -- that right, sir?

24 MR. JEREMY BELL: Yeah. To me the
25 difference is, you have Portfolio 10, the 5 percent in

1 infrastructure moves into equities; when it moves over to
2 Portfolio 11 becomes a slightly more risky and slightly
3 better return.

4 MR. BYRON WILLIAMS: And thank you for
5 that. And -- and I just want to -- just so my client can
6 understand it -- understand some of the tradeoffs that
7 you're -- you're working through on your model, going
8 back to page 30 for just a second, if you would, sir,
9 that's Chart 5.

10 I'll just pick one not quite out of the
11 air but I'll -- I'll pick one.

12 Let's look at Portfolio Number 17 on the
13 efficient frontier. If I could -- first of all, if I
14 compare that to the current portfolio, it's got a much
15 higher excess return antici -- anticipated.

16 Is that right, sir?

17 MR. JEREMY BELL: Correct.

18 MR. BYRON WILLIAMS: But as compared to
19 the current portfolio, there's also a higher assumed
20 average annual standard deviation.

21 Would that be right?

22 MR. JEREMY BELL: That's correct, yeah.

23 MR. BYRON WILLIAMS: And just flipping
24 over to page 30 -- 31, if we might, for a second. Once
25 again, you're assuming still a high percentage of Long

1 Term Bonds at 40 percent, but a bit less than for the
2 Portfolio's 10 and 11.

3 Is that right, sir?

4 MR. JEREMY BELL: Yeah.

5 MR. BYRON WILLIAMS: And again, no
6 universal bonds for the reasons we've enunciated earlier.

7 Is that fair?

8 MR. JEREMY BELL: That's right, yeah.

9 MR. BYRON WILLIAMS: We've got the same
10 percentage of Manitoba Bonds, because that's one of the
11 constraints compo -- imposed upon your work.

12 Is that right?

13 MR. JEREMY BELL: Yes.

14 MR. BYRON WILLIAMS: And if we go to
15 equities as a whole, this -- this proportion --
16 proportion is compared to -- if you totalled the equities
17 as a whole, both Canadian and US, as compared to options
18 10 and 11, you've got a higher proportionate investment
19 in equities.

20 Am I right, sir?

21 MR. JEREMY BELL: Yes.

22 MR. BYRON WILLIAMS: And again, you still
23 have that same relationship with -- the relative weight
24 given to American equities is higher than the relative
25 weight given to Canadian equities?

1 MR. JEREMY BELL: Yes.

2 MR. BYRON WILLIAMS: And the -- to -- to
3 fund the increased investment in equities, you've taken a
4 bit out of Long Term Bonds and a bit out of Alternative
5 Investments.

6 Is that right?

7 MR. JEREMY BELL: Yes.

8 MR. BYRON WILLIAMS: And so the trade-
9 off, just so my clients can understand, is increased
10 return through a greater investment in equities, but also
11 some more risk.

12 Is that fair? As measured by annual
13 deviation -- standard deviation?

14 MR. JEREMY BELL: Yes, that's true.
15 Yeah.

16 MR. BYRON WILLIAMS: Mr. Bell, I could
17 probably go back to the MPI kind of assumptions, but I
18 just -- I have some general observations that -- that I
19 would -- I'm proposing to make on behalf of my clients,
20 and I just wonder if you'll agree with them.

21 Generally, whether one looks at the --
22 your alternative -- or excuse me, the -- the Aon
23 preferred assumptions, or the MPI assumptions, generally
24 your advice would be a preference for Long Term over
25 Universal.

1 Would that be fair?

2 MR. JEREMY BELL: That would be fair,
3 yeah.

4 MR. BYRON WILLIAMS: And generally,
5 again, a preference -- not a preference, but a greater
6 weight proportionally to US equities versus Canadian.

7 Would that be fair?

8 MR. JEREMY BELL: I'd qualify that a
9 little bit. Equity assumptions are harder to get and
10 they don't link up to liabilities. Bonds it's fairly
11 easy to say who -- which one -- you know, when bond deals
12 move around, what's going to be happening here.

13 So they're pretty hypersensitive to the
14 assumptions -- the way that the assumptions are set up,
15 that's more attractive, but when -- when implementing,
16 it's good to have a healthy skepticism of -- of how good
17 modelling can be.

18 So I'd say yes, but qualified.

19 MR. BYRON WILLIAMS: So if I was putting
20 it to you you'd say yes, but you'd -- you'd have a little
21 stronger qualifications than on the Long Term Bonds
22 versus the Universal.

23 Would that be fair?

24 MR. JEREMY BELL: If you're pushing me
25 I'd still qualify it, but...

1 MR. BYRON WILLIAMS: And again, in terms
2 of trade-offs, if -- if one is looking for the -- the
3 higher returns, but -- and prepared to accept higher
4 risks, one is -- one may move the portfolio a little
5 more heavily towards equities and a little bit out of
6 bonds and alternatives.

7 Is that fair?

8 MR. JEREMY BELL: That's fair, yeah.

9 MR. BYRON WILLIAMS: In your discussion
10 with Mr. Saranchuk this morning you -- he asked you a
11 question and I -- I wrote down your response. You said
12 you'd like to put a little more precision to that
13 statement.

14 Do you recall saying that, or something to
15 that effect, sir?

16 MR. JEREMY BELL: I don't.

17 MR. BYRON WILLIAMS: Okay. Well, that's
18 okay. I -- I've noted in your -- I'm going to suggest to
19 you in your written language -- in your written report
20 that you are quite precise in the language that you --
21 that you choose.

22 Would you accept that, sir?

23 MR. JEREMY BELL: Yeah, I try to be.
24 Yeah, I mean, it's -- as well as possible, but without
25 making it a 200 page report, yeah.

1 MR. BYRON WILLIAMS: Well -- and, for
2 example -- and I can put you to references if you wish,
3 but at times in your evidence I see a -- the language
4 "extremely likely" versus "likely".

5 It is that a conscious choice, sir, or is
6 that -- generally, is -- is that kind of your actuarial
7 precision coming -- coming out?

8 MR. JEREMY BELL: It's not a conscious
9 choice, but if you reference me to where I said it, I
10 could tell you whether or not I meant something much
11 stronger than -- than "likely". But I -- but I -- I
12 can't recall where I said it so I don't know but I -- I
13 try to be as precise as possible.

14 MR. BYRON WILLIAMS: And I'll actually
15 come to that reference in a minute, but just so I
16 understand, because I know when I talk with
17 mathematicians, the word "significance" has a meaning
18 that -- that -- that poor, old lawyers don't always
19 grasp, but in your world does the -- do the words
20 "extremely likely" have -- have a meaning?

21 MR. JEREMY BELL: The -- not officially.
22 I mean, it would mean -- it would kind of depend on
23 context, yeah.

24 MR. BYRON WILLIAMS: And we'll go through
25 the context in a little -- in a little bit then.

1 At page 8 of your report -- do you have
2 page 8, sir?

3 MR. JEREMY BELL: I do.

4 MR. BYRON WILLIAMS: You, on the third
5 line of the first bullet, you make reference to MPI's
6 objectives, and just so I -- I'm sure -- and just so that
7 I'm sure of what you mean by that, how would you describe
8 MPI's objectives?

9 MR. JEREMY BELL: I'd describe them
10 literally using -- using the primary and secondary
11 objective. Though my understanding now is a little bit
12 different on how they implemented it, but I put a heavier
13 weight in writing the report on the primary objective
14 than the secondary objective and my understanding is MPI
15 puts a close to equal weight on them.

16 So if you're reading the report, you might
17 sense a primary weight being a bit heavier.

18 MR. BYRON WILLIAMS: Okay. And just so I
19 understand that, the primary objective, as I understand,
20 relates to the matching and the -- as you originally
21 understood, and the secondary objective related to
22 maximum return -- maximizing returns, given acceptable
23 levels of risk.

24 Is that fair?

25 MR. JEREMY BELL: That's right.

1 MR. BYRON WILLIAMS: And -- you know the
2 inference you've drawn, presumably from the -- from their
3 preferred portfolio, number 11 is that they're prepared
4 to -- to go -- to move a little more highly -- or heavily
5 to the -- to the return side.

6 Is that fair?

7 MR. JEREMY BELL: That -- that's fair and
8 we had discussions afterwards about why we used the words
9 "primary" and "secondary," which is actually -- we just
10 use "primary" and "secondary" normally in asset liability
11 studies, and it -- it probably put words into MPI's mouth
12 when we use "primary" and "secondary," when I think that,
13 had they been asked at the outset of the study, they
14 probably would have said "equal," but we didn't really
15 give them that option of something to go through.

16 So at the discussion at the end, in
17 discussion, why we use "primary" and "secondary," it was
18 more of a conversation than...

19 MR. BYRON WILLIAMS: Fair enough. Just
20 in the second bullet there, instead of using the words
21 "MPI's objectives," line 2, you used "MPI's needs".

22 Is there any conscious choice in the -- is
23 there any distinction you'd draw between "objectives" and
24 "needs," sir?

25 MR. JEREMY BELL: No conscious difference

1 between them. No.

2 MR. BYRON WILLIAMS: Just a -- just a
3 replacement word, is that fair?

4 MR. JEREMY BELL: Yes.

5 MR. BYRON WILLIAMS: Just turning to page
6 16 of your report for a second. And I think you've
7 answered this but I want to make sure I have it answered.

8 The second bullet at the top -- from the
9 top, you've got the statement:

10 "In the efficient frontier, the
11 Canadian equity weight is minimized
12 with an allocation of 30 percent of
13 equities to Large Cap Canadian
14 equities."

15 And just if you can explain what this --
16 what that statement means, sir.

17 MR. JEREMY BELL: Yes. At the outset of
18 the study one of the major inputs is what asset classes
19 to model also constraints upon the asset class. You
20 don't want to accept what numbers tell you without a
21 little bit of logic, because MPI was not going to
22 implement a portfolio that didn't have Canadian equities
23 in it ,nor necessarily what I say should if -- if the
24 math tells them to.

25 So when running the model it -- it reached

1 the bottom end of the constraint. And the bottom end of
2 the constraint was you have to have at least 30 percent
3 of your equities in Canadian equities.

4 So that's -- that's what I'm trying to say
5 there, is that when optimized most of the money is -- as
6 much of the money as is allowed, according to what you
7 guys said is your assumptions or constraints, is outside
8 of Canadian -- Canada.

9 MR. BYRON WILLIAMS: So just so I
10 understand, through the model as much as they'll allow is
11 optimized outside of Canada.

12 Is that right?

13 MR. JEREMY BELL: Yes, that's right.

14 MR. BYRON WILLIAMS: Just staying on page
15 16 for a second, in terms of bond structure, and again, I
16 -- I think we've -- we've answered this, but if we look
17 at your description of Chart 2 at the bottom of the page,
18 you have a bit of a discussion, I'm not going to read it
19 to you, but it appears to me that you're suggesting that
20 if you're making lower allocations to fixed income, then
21 a -- the efficient frontier is optimized by allocating
22 towards Long Term Bonds. If there are higher
23 proportionate allocations to fixed income, that's when
24 Universe Bonds become more attractive.

25 Have I paraphrased that correctly, sir,

1 first of all?

2 MR. JEREMY BELL: Yes, you have. Though,
3 I'll note that this is as opposed to what we were talking
4 about before, this is the MPI assumptions, yeah. But
5 yes, you paraphrased that paragraph.

6 MR. BYRON WILLIAMS: Going back to just
7 the -- the Universe Bonds, if -- if -- my sense of this
8 first of all is that you're -- when they become more
9 attractive is when you're looking at allocations of equal
10 to or greater than 80 percent of fixed income.

11 Is that right, sir?

12 MR. JEREMY BELL: Yes. And I can give
13 you the reason if you want.

14 MR. BYRON WILLIAMS: I was going to ask
15 for it.

16 MR. JEREMY BELL: Okay. Largely the
17 reason has to do with the fact that the duration of your
18 assets, so the sensitivity of your assets to changes in
19 interest rates, is largely captured in your bonds. If I
20 had 50 percent of my assets invested in bonds and it's
21 got a duration of ten (10) years let's say, whereas your
22 liabilities have a duration of assets of ten (10) years
23 themselves, well your assets all together are only going
24 to have half of them moving the same amount as your --
25 your liabilities.

1 So to the extent you have less money
2 invested in bonds, if you want to get rid of your
3 interest rate risk, you have to be longer term. You have
4 to have more sensitivity to interest rates in -- in the
5 assets that remain in bonds.

6 So it's -- it's expected generally, if you
7 have less in there.

8 MR. BYRON WILLIAMS: Thanks. Thank you
9 very much for that. Just -- and we are jumping around a
10 lot, the solace I can offer you is that we won't -- we
11 won't be that much longer.

12 You can turn here if you like, I don't
13 know if you need to, but at page 7 of your evidence --
14 maybe we'll -- we'll flip over to there if you will.

15 And I don't know whether to call it the
16 3rd last bullet or the 4th last. There's a little
17 indented one.

18 "Assets will be valued consistent with
19 current financial statement
20 methodology. Market value for all
21 assets except for non-marketable
22 Manitoba bonds at -- at book value."

23 Do you see that statement, sir?

24 MR. JEREMY BELL: I do.

25 MR. BYRON WILLIAMS: Just to start with,

1 what was your understanding of current financial
2 statement methodology? Just so I understand what you --
3 what you mean by that.

4 Is this the mark-to-market business, sir?

5 MR. JEREMY BELL: This is -- we don't
6 have a deep knowledge of what their financial statement
7 methodology is; this is just direction on exactly what to
8 do with the assets and my understanding is that the
9 direction that I've said there was their current
10 financial statement methodology.

11 So I -- I didn't mean anything beyond the
12 -- the rest of that sentence basically, but...

13 MR. BYRON WILLIAMS: Well -- well, I want
14 to get into just a -- a bit of a discussion about
15 constraints; not much because I think you're much more
16 capable in this area than I am.

17 But as I understand current financial
18 accounting rules, certain of the -- the assets of
19 Manitoba Public Insurance can be designated as held for
20 trading, and those show up on the -- right into the --
21 the net income statement. Certain of those assets may be
22 designated or have been designated as available for sale,
23 and they -- they show up on a different line called,
24 "Other Comprehensive Income;" the -- the market value of
25 both those do. And then the -- the -- a third category

1 be. I mean, to the extent that bonds are held at book
2 value versus market value, if you -- if you care about
3 year-to-year volatility of your financial position, then
4 it might make a difference on -- on exactly what you do.
5 I'd be guessing a little bit to say what the impact could
6 be, but there could be different investment decisions
7 that you'd make, depending on accounting.

8 MR. BYRON WILLIAMS: And again, and not -
9 - I -- I don't want to push you farther into the
10 accounting issue, but staying on portfolio theory, there
11 might be different constraints you might build into your
12 optimization if you were considering that an issue.

13 Is that possible, sir?

14 MR. JEREMY BELL: Yeah, it would -- it
15 would be modelled. So yeah, it -- it could have not
16 constraints on asset mix, not constraints on asset class,
17 perhaps not even constraints on, like, objectives; it
18 just could be something that is a part of the modelling
19 and shows up as part of the financial position or excess
20 return, or whatever the excess return that you care about
21 is.

22

23 (BRIEF PAUSE)

24

25 MR. BYRON WILLIAMS: If you want to just

1 turn to page 71 for a -- a couple of minutes, sir.

2 Excuse me, I misspoke, page 70?

3

4 (BRIEF PAUSE)

5

6 MR. BYRON WILLIAMS: Now, based upon Mr.
7 Saranchuk's discussion with you this morning, I
8 understand that this is basically a replication of a
9 Chart 3 from page, I think, 26 of your -- your report,
10 with the exception that we've put in a modified mix
11 number 11.

12 Is that right, sir?

13 MR. JEREMY BELL: That's right.

14 MR. BYRON WILLIAMS: And it's designed
15 upon the MPI-based optimization rather than the Aon
16 optimization?

17 MR. JEREMY BELL: That's right.

18

19 (BRIEF PAUSE)

20

21 MR. BYRON WILLIAMS: Just a couple
22 moments on this again and I -- I may have asked this
23 before. If so, I apologize.

24 If I was looking at -- at this chart and
25 trying to determine -- saying my objective is a higher

1 return as measured in annual excess return, the average,
2 and about the same level of risk as the current
3 portfolio, would I be focussing on options 4 through 8,
4 sir?

5 MR. JEREMY BELL: I'm sorry. Could you
6 repeat that?

7 MR. BYRON WILLIAMS: Yeah. Let -- let's
8 just say that I'm still caught in my kind of mind set
9 from the current portfolio. I want about the same level
10 of risk but a higher return. The options I'd be
11 focussing on are Option 4 through 8.

12 Is that right?

13 MR. JEREMY BELL: That -- that's correct,
14 yeah.

15 MR. BYRON WILLIAMS: Okay. I apologize
16 for the imprecision.

17 And then let's move up to number 11 and
18 modified number 11. If I look at the two (2) -- there is
19 -- eleven (11) versus the MPI preference, does have a
20 somewhat higher return.

21 Is that fair?

22 MR. JEREMY BELL: So eleven (11) versus
23 modified mix number 11 --

24 MR. BYRON WILLIAMS: Yeah.

25 MR. JEREMY BELL: -- the ultimate one MPI

1 is going for? Yeah, that's fair. Has a slightly higher
2 return --

3 MR. BYRON WILLIAMS: Okay.

4 MR. JEREMY BELL: A somewhat lower risk
5 but looks --

6 MR. BYRON WILLIAMS: And --

7 MR. JEREMY BELL: -- negligible.

8 MR. BYRON WILLIAMS: Okay. Sorry, is the
9 return negligible?

10 MR. JEREMY BELL: Well, it depends what -
11 - what people may call -- I mean, I guess any percentage
12 of \$2 billion isn't negligible to people, but .1 percent
13 when you -- when you trust math to that level, that's
14 probably too precise to trust it, so I'd say negligible
15 in that sense.

16 MR. BYRON WILLIAMS: Fair enough. And --
17 and just going to the left a little bit, option number 10
18 has a -- a slightly higher return and also a lower risk.

19 Is that fair? As compared to the modified
20 mix number 11.

21 MR. JEREMY BELL: That's right.

22 MR. BYRON WILLIAMS: And are those
23 negligible as well, sir?

24 MR. JEREMY BELL: That judgment would
25 have to be MPI's, but to me they look close, and -- and

1 trusting models to -- with infinite precision would be
2 silly, I'd say, so...

3 MR. BYRON WILLIAMS: Fair enough. Just a
4 couple more questions. Page 14, if you would.

5

6 (BRIEF PAUSE)

7

8 MR. BYRON WILLIAMS: Actually, I
9 misspoke. Page 11.

10 You'll see a heading, "Retained Earnings
11 from Total Operations," and in the second bullet under
12 that heading, the second sentence, there's a statement:

13 "It appears extremely likely that the
14 retained earnings from total operations
15 will be positive throughout the
16 projection period."

17 Do you see that statement, sir?

18 MR. JEREMY BELL: I do.

19 MR. BYRON WILLIAMS: The -- going back to
20 my question, just in terms of your choice of language
21 there, what did you mean by "extremely likely"?

22

23 (BRIEF PAUSE)

24

25 MR. JEREMY BELL: If you turn to page

1 50...

2

3

(BRIEF PAUSE)

4

5

MR. BYRON WILLIAMS: Please proceed.

6

MR. JEREMY BELL: The probability of
7 total retained earnings in 2023, being less than zero, is
8 zero percent, so I'd call that extremely likely. Even --
9 even though I don't have the decimal places, I'd still
10 call it extremely likely.

11

MR. BYRON WILLIAMS: So that's a
12 conscious choice of -- of use of the word "extremely," is
13 that right?

14

MR. JEREMY BELL: It is. I mean I
15 wouldn't -- I don't if I'd use it at 2 percent or 1
16 percent or zero percent but to me that sounds extremely
17 likely. But it wasn't a mathematical or a numerical
18 choice of -- it was 'X' value so I said "extremely"
19 versus "not extremely".

20

MR. BYRON WILLIAMS: Okay. Just on that
21 point so I -- I understand it more carefully, in -- in
22 what context are you making this observation? And I'll
23 inarticulately explain and then you can help me with it.

24

Is it based on MPI's current investment
25 portfolio, their future one, or does it -- does it

1 matter?

2 MR. JEREMY BELL: This is current,
3 otherwise I would say it wouldn't matter. This -- this
4 is current, that I made the observation.

5 MR. BYRON WILLIAMS: And just to follow
6 that through then, you were -- your view -- I'm -- I'm
7 going to suggest to you that even if we're looking at
8 their preferred portfolio or one (1) of the options
9 you've recommended, you would still be of the view that
10 it would be -- appear extremely likely that the retained
11 earnings from total operations will be positive?

12 MR. JEREMY BELL: Absolutely, yeah.

13 MR. BYRON WILLIAMS: Okay. I want to go
14 to the issue of hedging for just a second, pages 19 and
15 20 of your evidence.

16

17 (BRIEF PAUSE)

18

19 MR. BYRON WILLIAMS: If I was trying to a
20 ten (10) second clip your -- your advice to MPI on
21 hedging, would it be: Make sure that you hedge any
22 foreign currency exposure with regard to real estate and
23 infrastructure, but that you not hedge currency exposure
24 associated with equity investments.

25 Would that be fair?

1 MR. JEREMY BELL: That would be fair.

2 MR. BYRON WILLIAMS: And I think you
3 explain it pretty well in footnote number 6 but if -- if
4 you can elaborate on -- on why that's your advice on both
5 those categories, sir.

6

7 (BRIEF PAUSE)

8

9 MR. JEREMY BELL: If you look at page 29,
10 and unfortunately if you've got everything bound which I
11 guess you don't, we have to look at one (1) other at the
12 same time.

13

14 MR. BYRON WILLIAMS: I feel competent to
15 handle that task, sir.

16

17 (BRIEF PAUSE)

18

19 MR. JEREMY BELL: Page 60.

20

21 (BRIEF PAUSE)

22

23 MR. BYRON WILLIAMS: Please proceed.

24 MR. JEREMY BELL: So page 29 we hedged
25 the currenc -- or we modelled the excess return over

1 liabilities projected into the future in various years.
2 You can see 2007 to 2022. And this assumes that the
3 foreign exchange -- or foreign currency risk is hedged
4 for the Large Cap equity exposures.

5 And you can look at the return -- or you
6 can look at what the excess return over liabilities is
7 all the way across the board, and it is -- it has very
8 little difference between the two (2) of them.

9 And I think...

10

11 (BRIEF PAUSE)

12

13 MR. JEREMY BELL: We would say that the
14 effect is negligible effectively, because you have 3 1/2
15 percent in there. But if we had a larger amount, we
16 would be seeing something similar but a little bit lower
17 returns on the -- on the hedged portfolio.

18 I mean hedging's paid off handsomely over
19 the last, well, however long it's been done, at least the
20 last six/seven (6/7) years, but prospectively, hedging is
21 assumed to be pretty close to a zero sum game with some
22 costs in doing it.

23 As well, it's not going to be -- there's
24 not enough money inside of it, such that -- or inside of
25 foreign currency, such that MPI's results are going to be

1 materially affected by having a small amount of unhedged
2 exposures in US equities or EAFE equities.

3 It's not an extremely strong
4 recommendation, because it's not something that shows up
5 as being obviously poor or obviously good. It's one of
6 those things that shows up as being marginally poor
7 because there's a little bit of a cost associated with
8 it. And that's for the Large Cap equity exposures.

9 MR. BYRON WILLIAMS: If the -- if -- if
10 there was a more significant investment, would -- would
11 that conclusion change?

12 MR. JEREMY BELL: It would, yeah.
13 Typically when it gets above 30 percent let's say,
14 somewhere in that order of magnitude, the conclusion
15 would change, yeah. Mostly because the liabilities are
16 100 percent Canadian dollars.

17 MR. BYRON WILLIAMS: And I may have
18 missed it, but in terms of the real estate -- maybe you
19 can elaborate on it --

20 MR. JEREMY BELL: Real -- real estate --
21 real estate, which we didn't actually -- I mean we put it
22 inside the report as if you had global real estate you'd
23 hedge it, but we're also saying -- we're not saying
24 global real estate. But absolute return asset classes.
25 The way we model it, we model them assuming that there's

1 no currency exposure.

2 And if there were currency exposure, they
3 may not show up as being attractive in the model, so we
4 recommend for the absolute return asset classes that the
5 -- the currency not be hedged, just as a -- a matter of
6 course. As well, it's what people expect from them.

7 It's a little bit more of a qualitative
8 argument on -- on hedging for them.

9 MR. BYRON WILLIAMS: Fair -- fair enough.
10 Just a couple of concluding questions.

11 I believe you told Mr. Saranchuk that real
12 estate was fairly correlated with inflation. Do you
13 recall a statement to that effect?

14 MR. JEREMY BELL: I can imagine using
15 that, yeah.

16 MR. BYRON WILLIAMS: You didn't use
17 "extremely," for example?

18 MR. JEREMY BELL: No.

19 MR. BYRON WILLIAMS: In terms of the --
20 that conclusion, first of all, what do mean by "fairly"?

21

22 (BRIEF PAUSE)

23

24 MR. JEREMY BELL: I mean that over long
25 periods of time the price of real estate is generally

1 associated with the cost of building buildings. Land is
2 a bit of residual; it doesn't, over large periods of
3 time, hold much of the value. Much of the value for a
4 diversified portfolio of real estate is in the building
5 and the replacement costs of the buildings.

6 The replacement costs of buildings are
7 going to be related to steel, concrete, labour, and all
8 three (3) of those are going to be reasonably related to
9 CPI. It's not going to be the same basket of goods as --
10 as a CPI measure, so it's not going to be perfect.

11 As well, there's a bit of an economic
12 impact. If -- if the economy's doing poorly and there's
13 an over supply of buildings, how much it costs to build a
14 building doesn't mean anything. What makes more sense
15 then is how much rent you can get out of them or how much
16 -- what your vacancy is. And -- and that could hurt for
17 a little period of time.

18 But over long periods of time, buildings
19 need to be priced such that replacing a building is
20 economic, otherwise there can't be economic growth in the
21 country.

22 MR. BYRON WILLIAMS: And by "over a long
23 period of time," what -- what period are you referring
24 to, in your choice of that language?

25 MR. JEREMY BELL: I'd just be picking a

1 number right now but I'd say ten/twenty (10/20) years are
2 eve -- what I'd be thinking about.

3 MR. BYRON WILLIAMS: And in terms of that
4 observation, is there a specific data source or report
5 you're -- you're referring to in terms of that
6 correlation over time? Or is it -- what -- what
7 empirical support, just -- is there a reference you can
8 provide me with?

9 MR. JEREMY BELL: Various. I can -- I
10 can think of one (1), the book "Irrational Exuberance"
11 talks about it, but -- and other sort of documents on
12 long-term prices of real estate over -- it's actually I
13 think Version 2 of that book I'm talking about. But
14 there's others that are like that which relate -- the
15 price of -- price of real estate long term to the cost of
16 replacing buildings.

17 MR. BYRON WILLIAMS: And -- and you're
18 aware of the work of authors like Schiller (phonetic) for
19 example in this Hearing.

20 MR. JEREMY BELL: He wrote that, so yes.

21 MR. BYRON WILLIAMS: And he looked at, if
22 memory serves me right, real estate over what -- American
23 data over a hundred and five (105) year period or
24 something like that.

25 MR. JEREMY BELL: Yeah. I want to say

1 it's a hundredish, as a round number.

2 MR. BYRON WILLIAMS: And they looked at
3 Amsterdam as well, am I right?

4 MR. JEREMY BELL: In the 1600's or
5 somewhere like that. Yes, I think he concentrated on
6 almost all on residential real estate, so there's a
7 little bit of a -- of a change that needs to be made.
8 And I think commercial tends to have a little bit more --
9 a little less emotion and there's a little bit more put
10 on what the rents are that are coming out of it.

11 So the decisions are a bit more economic
12 in the commercial world, but I think that similar types
13 of information stands.

14 MR. BYRON WILLIAMS: So you would see --
15 well, in terms of commercial and residential real estate,
16 some correlation in terms of the patterns?

17 MR. JEREMY BELL: I would say that's
18 fair, to the extent that they're built with similar
19 things. Though residential real estate is built with
20 lumber and has different types of building that goes into
21 it, so the price of building these types of buildings
22 that we're in today made of steel and concrete can go up
23 while the price of building residential real estate can
24 go down.

25 So they can move apart, but over time

1 labour should -- should move in similar directions and
2 commodities shouldn't get too far apart from each other.
3 But I think right now we're going through a time where
4 lumber is doing the exact opposite thing as what steel
5 and concrete are doing.

6 MR. BYRON WILLIAMS: Do you have any --
7 staying on this theme -- do you have any observations --
8 well, let me back up.

9 Are there rent controls in the Province of
10 British Columbia?

11 MR. JEREMY BELL: I don't know. Probably
12 not, but...

13 MR. BYRON WILLIAMS: Do you any
14 observations in terms of the impact of rent control
15 legislation on the relationship between real estate and
16 inflation?

17 MR. JEREMY BELL: I don't have any. I
18 would say almost all of what any investor would buy is
19 going to be very -- very little of it is going to be
20 multi-unit residential, so it's almost all going to be
21 commercial, retail, industrial. It'll be a portion
22 multi-unit residential, but it's not going to make up a
23 major portion. And I'm under the impression there isn't
24 too much rent control in that area.

25 MR. BYRON WILLIAMS: Mr. Chairman, if I

1 could have two (2) minutes.

2

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(BRIEF PAUSE)

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THE CHAIRPERSON: Are you ready, Mr. Williams?

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CONTINUED BY MR. BYRON WILLIAMS:

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MR. BYRON WILLIAMS: Yeah, I just have a couple more questions. And, Mr. Bell, thank you for your patience.

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I'll ask you a hypothetical first of all. If a client came to you, you know, a client with similar objectives as MPI, as you currently understand them, but said that over the next ten (10) to fifteen (15) years I can construct a plausible inflation scenario, by which inflation would rise 10 percent in kind of year 1, 11 percent in year 2, 12 percent in year 3, 9 percent in year 4, and 5 percent in year 5, if -- if they said that's something that we consider plausible, would that change any of your advice in this report at all?

22

23

24

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MR. JEREMY BELL: If someone came to me and said this is plausible I'd say, well, perhaps, plausible depends on exactly how you're using the word "plausible." I guess it is a scenario. But that could

1 happen once in a while, but if they wanted me to use that
2 as the assumption, which they could provide that
3 direction me, I -- I suppose, and we -- we wouldn't mind
4 modelling their portfolio for them, then, yeah, Real
5 Return Bonds would end up being more attractive, some of
6 the other asset classes would get more attractive.

7 So it would -- it would effect things.
8 I'm not saying that we'd change -- them telling me that
9 it's plausible doesn't mean we're changing the
10 assumption, unless they think that the assumption isn't
11 plausible.

12 MR. BYRON WILLIAMS: Fair enough. And I
13 thank you for your candour.

14 Are you familiar -- and I hesitate to come
15 back to any accounting terms -- but are you familiar with
16 the acronym IFRS at all?

17 MR. JEREMY BELL: I Yeah. Well, yes, but
18 that's about as deep as my knowledge goes is that -- all
19 four (4) of those letters.

20 MR. BYRON WILLIAMS: Well, we're -- we're
21 probably speaking on a level playing field, but this
22 relate to your work. I just want to understand.

23 And you understand that whatever these --
24 this IFRS, this international financial accounting rules,
25 that -- that there's a possibility -- or that we're

1 looking at implementation in the Canadian context early
2 in the next decade.

3 And is that your understanding?

4 MR. JEREMY BELL: That's my
5 understanding. I don't know how it would apply to these
6 companies. I know a bit more about pension plans to do
7 with different accounting standards but I don't really
8 have a clue how it applies to MPI.

9 MR. BYRON WILLIAMS: And -- and that's
10 fair enough. And just in terms of your analysis in this
11 report, would it be fair to say that the possible
12 implications of those rules ha -- have not been taken
13 into account?

14 Would that be fair?

15 MR. JEREMY BELL: That would be fair.

16 MR. BYRON WILLIAMS: Mr. Chairman, thank
17 you for that.

18 THE CHAIRPERSON: Thank you, Mr.
19 Williams.

20 MR. BYRON WILLIAMS: And thank you, Mr.
21 Bell.

22 THE CHAIRPERSON: We will just do a fast
23 survey here to see how we fit everyone in.

24 Mr. Oakes, do you have questions for Mr.
25 Bell?

1 MR. RAYMOND OAKES: I do not, Mr.
2 Chairman.

3 THE CHAIRPERSON: Mr. Dawson...?

4 MR. ROBERT DAWSON: I have about five (5)
5 minutes literally, Mr. Chairman.

6 THE CHAIRPERSON: Mr. Kruk, do you have
7 any?

8 MR. JERRY KRUK: I have none.

9 THE CHAIRPERSON: Let's go with Mr.
10 Dawson then.

11

12 (BRIEF PAUSE)

13

14 THE CHAIRPERSON: Mr. Dawson represents
15 the Manitoba Bar Association.

16

17 CROSS-EXAMINATION BY MR. ROBERT DAWSON:

18 MR. ROBERT DAWSON: Good afternoon, Mr.
19 Bell. When I read through your report, I noticed that
20 you didn't particularly mention the fact that MPI is a
21 Crown corporation. Can you tell me if the fact that MPI
22 is a Crown corporation is chiefly relevant to the issues
23 that you wrote about in your report?

24 MR. JEREMY BELL: Only insofar as the
25 objectives set by MPI reflect their current understanding

1 of how they need to manage themselves. So as far as I'm
2 concerned, no, but it could have been indirectly, based
3 on what they told me for objectives.

4 MR. ROBERT DAWSON: So when you wrote
5 your Ion or Aon report, you were treating MPI like you
6 would, shall we say, any other insurance company that had
7 come to you to reconsider its approach to investment; is
8 that right?

9 MR. JEREMY BELL: That's correct. In
10 fact, any pool of money that has liabilities that are
11 reasonably well defined, that's how I would think of them
12 in a -- not in a pejorative sense, but a pool of money.

13 THE CHAIRPERSON: Mr. Bell, not to
14 interfere, but you'd have to take into account no
15 taxation presumably?

16 MR. JEREMY BELL: Well, yeah. No, I
17 mean, but any pool -- yeah, any pool of money, though,
18 that tells me what the liabilities are and where you
19 understand what the comings and goings are, but it's just
20 money that has obligations coming out at the end that is
21 nontaxable.

22

23 CONTINUED BY MR. ROBERT DAWSON:

24 MR. ROBERT DAWSON: I don't say this by
25 way to be critical but I want to know if there are any

1 other qualifications that you want to offer because the
2 question that the Chair asked is indeed, I'll suggest,
3 one (1) difference that a Crown corporation introduces.
4 Are there any other qualifications that you think are
5 relevant?

6 MR. JEREMY BELL: Well, I -- I typically
7 wouldn't offer that qualification because almost all of
8 our investors or most institutional investors are --
9 don't have tax, so I wouldn't typically say it. So it
10 wasn't necessarily an oversight because of a lack of
11 understanding of MPI; it's because if -- if they were
12 taxable, I would mention it more so because that would be
13 unique for institutional investors.

14 No, I -- I mean, I need to know what the
15 objectives are. I need to know how much money is there.
16 I need to know what the obligations are that need to be
17 paid with the money, and then from that we can do all the
18 modelling. There -- I suppose you could say the
19 constraints on what asset classes they would be allowed
20 to put into the study, but those are all kind of either
21 client -- either from the client -- whether or not
22 they're driven from the fact that it's a Crown
23 corporation and they can't buy commodities for that
24 reason or whether or not my client tells me they don't
25 want me to model commodities, it's not really me doing

1 anything relative to the fact they're a Crown
2 corporation.

3 MR. ROBERT DAWSON: So -- and I'm not
4 trying to belabour this, but you would accept that the
5 Corporation in this particular case is owned by the
6 Crown; that's what a Crown corporation is, right?

7 MR. JEREMY BELL: I'll accept that.

8 MR. ROBERT DAWSON: And it's your view
9 either that it's -- well, not so much it's not chiefly
10 relevant to what you were writing about, but rather it
11 was just something that was not within the scope of what
12 you were expected to consider; is that right?

13 MR. JEREMY BELL: No, I'd say that it's
14 stuff that the investment committee working group and MPI
15 management brings to the table and they combine that with
16 our investment expertise. So it's not something I would
17 consider or not consider and -- and it's not that they
18 didn't ask me to consider it. I don't know how you can
19 consider it, to be honest, beyond treating it like a pool
20 of money that has obligations coming out of it at the end
21 of the day.

22 MR. ROBERT DAWSON: And the same thing
23 would apply in your view to, for example, the way in
24 which government might pursue public policy objectives
25 through a Crown corporation; same thing?

1 MR. JEREMY BELL: Yeah, we made no -- no
2 special recognition from that beyond things like not
3 investing in commodities because that was a constraint of
4 the study. So beyond some of the initial things that
5 were brought into it by MPI management or investment
6 committee working group, we didn't -- we didn't have any
7 special invest in Manitoba initiatives or -- or things to
8 that extent.

9 MR. ROBERT DAWSON: I don't want to --
10 you to have to stick out your neck, I'm just asking you
11 as an expert. If any of those factors that you have
12 explained why you did not consider were shown to be
13 relevant, would you want to revisit the conclusions that
14 your report comes to?

15 MR. JEREMY BELL: Now, you're thinking
16 about me saying -- talking about commodities or talking
17 about investing in Manitoba or was there anything else
18 that I talked about that -- 'cause that's a pretty broad
19 thing about things that I didn't include.

20 MR. ROBERT DAWSON: I paint with a broad
21 brush.

22 MR. JEREMY BELL: I answer precisely so
23 we're going to -- we're going to have a problem.

24 MR. ROBERT DAWSON: It's going to take
25 longer than five (5) minutes, Mr. Bell. We'll go through

1 them one (1) by one (1). We talked about Crown ownership
2 of the Corporation. If that factor were shown to be
3 relevant to the way in which the Corporation, the
4 applicant in this instant proceedings, ought to consider,
5 or reconsider in this case, its approach to investment,
6 would you want to come back and re-write parts of your
7 report?

8 MR. JEREMY BELL: It depends how I -- I
9 mean, still, that's too broad to say. I mean, if it came
10 -- if they came back and said, you know, the Crown won't
11 let them invest in international equities, then sure,
12 because that's obviously part of the recommendation. But
13 I don't quite know -- I mean, it's such a -- such a big
14 question. I mean, it --

15 MR. ROBERT DAWSON: I'm a big guy.

16 MR. JEREMY BELL: Yeah? I wasn't -- I
17 wasn't agreeing with that.

18 Yeah, I -- with more direction, I could
19 answer the question but -- but not knowing what the
20 question is trying to get at or -- or is even really
21 asking, sure there could be some Crown reasons and public
22 policy reasons that may influence things. I'd expect
23 that the management of MPI would understand those and
24 would have brought those to the table. So I don't think
25 I'm going to be surprised by something that MPI can't

1 implement now.

2 But if there were something major that --
3 that wasn't brought to the table that could affect what
4 they're allowed to invest in or what their constraints
5 could be or something to that extent, then sure, yeah,
6 you'd want to revisit what you did to make sure it's
7 still valid. Whether it means write another report or
8 whether it means just confirm that that was a good thing
9 to leave out, who knows.

10 MR. ROBERT DAWSON: All right. I think
11 that's helpful actually and -- and I'm certainly not
12 trying to undermine your report. I'm just trying to
13 explore the parameters of its usefulness in this context.

14 I just want to pick up on something else
15 that you had mentioned in the course of cross-examination
16 and, indeed, in direct examination today. You've made
17 frequent reference to your work in the area of pension
18 plans. And let me make sure I've got this right.

19 You told me that the person at Aon who was
20 overseeing your work is primarily the person in charge of
21 the retirement practice for the central north area. Is
22 that right?

23 MR. JEREMY BELL: Central west.

24 MR. ROBERT DAWSON: And am I right that
25 it's primarily a question of retirement practice that

1 this man works in?

2 MR. JEREMY BELL: Well, actually, he
3 doesn't work there he -- he oversees them. He -- he
4 works in the investment consulting practice, which we
5 consult to foundations, insurance companies, other types
6 of institutional assets, pretty much any pool of assets
7 that has obligations attached to it, so...

8 MR. ROBERT DAWSON: Would I be wrong to
9 say that when it comes to investment approaches, it is
10 not the same approach that should be used when dealing on
11 the one hand with pension plan funds as opposed to
12 surpluses or reserve funds as in the instant case?

13 MR. JEREMY BELL: I'd say that's a fair
14 statement though it -- it doesn't affect me because we're
15 modelling mathematically and that's really the job of the
16 people that are sitting on the plans. Ultimately, most
17 reserve funds, insurance companies are going to end up
18 choosing something that's more prudent, generally, than
19 what pension plans might be doing, prudent being a fancy
20 way of saying less equities in most of -- most insurance
21 companies than you'd find in pension plans.

22 But ultimately, the math is the same.
23 It's the constraints that they're bringing to the table.
24 So a pension plan may have different constraints that
25 they bring versus an insurance company. A pension plan

1 may be more open to different types of investments than
2 an insurance company.

3 But ultimately, the modelling that goes
4 into it and the report writing and -- and what comes out
5 of it is going to be fairly like.

6 MR. ROBERT DAWSON: Would I be wrong then
7 to say that, as you're saying, the report writing, the
8 modelling, the writing is, in your words, fairly like,
9 would I be wrong then to say that it doesn't matter
10 whether the person who's doing the work has a primary
11 expertise in the area of pension plans as opposed to
12 investment counselling or consulting?

13 MR. JEREMY BELL: Sorry, one (1) more
14 time on that.

15 MR. ROBERT DAWSON: I can reword it, that
16 might help.

17 If the person who's doing the report is an
18 expert or more experienced in the area of pension plans,
19 is this person likely going to do a better or worse job
20 than someone who focusses on providing investment advice
21 to companies like MPI on Surplus Bonds as opposed to
22 pension funds?

23 MR. JEREMY BELL: I'd say that's wrong
24 but I'm not quite sure if there was a negative in there
25 so I might be agreeing with it by accident, but --

1 MR. ROBERT DAWSON: Let's make it simple.
2 Does it matter if you -- if --

3 MR. JEREMY BELL: No.

4 MR. ROBERT DAWSON: -- if you spent your
5 entire career doing pension plans are you basically doing
6 the same work?

7 MR. JEREMY BELL: You're effectively
8 doing the same work. I mean, the liabilities that we
9 get, we're not good at modelling those liabilities
10 ourselves or determining them because a lot of them have
11 to do with setting up experienced claims and stuff.

12 But so we rely on the actuaries but,
13 ultimately, when the actuaries give us the models for
14 exactly how the liabilities work, we understand how
15 liabilities function and move and then we can link them
16 up to the same way that assets function and move.

17 And it's the same -- it's the same sort of
18 thing. As well, I guess I would correct -- I don't think
19 there are many investment consultants that haven't cut
20 their teeth in the pension world.

21 So I'm not sure that it's -- it might be a
22 null set to the group of people that are investment
23 consultants that specialize in insurance companies in
24 Canada. But that's a guess. I -- I haven't seen any.

25 MR. ROBERT DAWSON: Thank you, Mr.

1 Chairman. That concludes my questions.

2

3 QUESTIONS BY THE BOARD:

4 THE CHAIRPERSON: Thank you, Mr. Dawson.
5 Actually you've raised a question in my mind while we
6 have Mr. Bell here.

7 On that note that you're -- if year-to-
8 year volatility of investment results had no necessary
9 impact on rate setting, subject only to sufficient cash
10 availability to meet claims, would a different asset mix
11 when focussed on long-term yield be worthy of
12 consideration?

13 MR. JEREMY BELL: Do you mind saying the
14 first half of that again, and then the second half too,
15 sorry.

16 THE CHAIRPERSON: If one wasn't worried
17 about the volatility between accounting periods, okay?

18 MR. JEREMY BELL: Okay.

19 THE CHAIRPERSON: As long as you had
20 enough cash to pay the claims coming up but you weren't
21 about the volatility whether you lost money one (1) year
22 and made it up the next, would the rate -- would the
23 asset mix look different, or could it look different?

24 MR. JEREMY BELL: Yeah, though I would
25 say the hypothetical question doesn't sound like an

1 insurance company to me because insurance companies have
2 to care periodically about what their liabilities look
3 like. It's a Ponsi scheme if you don't care about what
4 your financial position is.

5 So, I mean, if you didn't care about your
6 financial position and you care whether or not you had
7 the cash around, then sure, you could invest fairly
8 aggressively but it doesn't -- it doesn't fully make
9 sense to ignore the financial position and in -- in
10 yearly or triennially.

11 THE CHAIRPERSON: I follow you. In my
12 simplification of it I made it too simple.

13 MR. JEREMY BELL: Okay.

14 THE CHAIRPERSON: I wasn't suggesting
15 you weren't worried about the financial position. I was
16 suggesting that the year-to-year variability in the net
17 income wasn't a concern. It was the long-term financial
18 solvency and -- and position of the company. But you
19 weren't worried about year-to-year normal fluctuations
20 within standard deviations.

21 MR. JEREMY BELL: Yeah, to the extent you
22 focus less on individual years, you can typically invest
23 a little bit more aggressively.

24 So the focus at MPI is largely based on
25 year-to-year. So if it was -- if it was triennial or --

1 or every five (5) years, more detail or -- or longer
2 smoothing or something like that, you can typically be a
3 little bit more aggressive but...

4 THE CHAIRPERSON: The other question I
5 had was something that you mentioned before and it just
6 stuck in the back of my head because we've dealt with
7 this subject before.

8 In your experience because you used the
9 specific word, what is a standard equity risk premium
10 that one might expect?

11 MR. JEREMY BELL: Let's call it 3 to 5
12 percent somewhere in that range. Maybe 3 to 4 more
13 likely or...

14 THE CHAIRPERSON: Thank you. Mr.
15 McCulloch, do you have anything more for your witness?

16
17 RE-DIRECT EXAMINATION BY MR. KEVIN MCCULLOCH:

18 MR. KEVIN MCCULLOCH: Only a
19 clarification on the answer that he just gave to you. He
20 said 3 to 5 percent for an equity risk premium, over what
21 measure?

22 MR. JEREMY BELL: That's -- we would
23 typically measure it over cash as opposed to a over
24 longer term bonds and there's been various research
25 articles saying one versus the other. But ultimately,

1 equities in the research articles that we ascribe to do
2 it over cash return, so T-Bill returns or whatever you
3 want to call it.

4 THE CHAIRPERSON: It's a very good
5 question, Mr. McCulloch.

6 MR. KEVIN MCCULLOCH: Oh, very good.

7 THE CHAIRPERSON: Actually, it is quite a
8 good supplement to that. I can't remember, as I am aging
9 I am losing control here, Mr. Kruk, did I ask you whether
10 you had any questions?

11 MR. JERRY KRUK: You did, sir, and I
12 don't.

13 THE CHAIRPERSON: Very good. Then I
14 think we are done with you, Mr. Bell. Thank you very
15 much for coming and attending. I greatly appreciate your
16 testimony, you have been a good help.

17 MR. JEREMY BELL: Thank you.

18

19 (WITNESS STANDS DOWN)

20

21 THE CHAIRPERSON: We will take a short
22 break and we will come back with Mr. Oakes and he can
23 carry on with his cross-examination of the panel.

24

25 --- Upon recessing at 2:32 p.m.

1 --- Upon resuming at 2:49 p.m.

2

3 THE CHAIRPERSON: Mr. McCulloch, you look
4 like you have something to say.

5 MR. KEVIN MCCULLOCH: I do, Mr. Chairman.
6 We have some responses to undertakings. The first will
7 be the response to Undertaking Number 6, dealing with any
8 risk that when the cost allocation review is completed
9 the result will be a material increase in Basic's annual
10 costs and a corresponding deterioration in the Basic net
11 income forecasts. That should be marked, please, as MPI
12 Exhibit number 15.

13

14 --- EXHIBIT NO. MPI-15: Response to Undertaking 6

15

16 MR. KEVIN MCCULLOCH: The next undertaking
17 is Undertaking Number 18, and in this one (1) the
18 Corporation was asked to provide the number of extension
19 policyholders, including the number of Basic
20 policyholders who have also had extension coverage, and
21 the response from the Corporation provides the number of
22 Basic only policies and the number of policies with Basic
23 and Extension. And that would be Exhibit Number 16.

24

25 --- EXHIBIT NO. MPI-16: Response to Undertaking 18

1 thank you. I've distributed an email exchange between a
2 Mr. Greg Franks of SGI and Dr. Alister Hickson, and so I
3 have some questions, if that could be marked as, I
4 believe it's CMMG Exhibit 4?

5 THE CHAIRPERSON: 4.

6

7 --- EXHIBIT NO. CMMG-4: Email exchange between a Greg
8 Franks of SGI and Alister
9 Hickson

10

11 MPI PANEL RECALLED:

12 WARD KEITH, Resumed

13 MARILYN MCLAREN, Resumed

14 DON PALMER, Resumed

15 OTTMAR KRAMER, Resumed

16

17 CONTINUED CROSS-EXAMINATION BY MR. RAYMOND OAKES:

18 MR. RAYMOND OAKES: And I'd like to
19 follow-up with some questions to Mr. Palmer based on his
20 answer to that undertaking.

21 Mr. Palmer, would I be correct then given
22 your testimony yesterday, that the Corporation would not
23 use those special allocation rules with respect to
24 wildlife claims?

25 MR. DON PALMER: That's correct and in

1 the PUB order cited there was no reference to wildlife
2 claims.

3 MR. RAYMOND OAKES: And, sir, Exhibit
4 Number 4 that we've just introduced, that being an email
5 exchange between Mr. Greg Franks at SGI, I understand
6 that he's a senior rating analyst at SGI and has been for
7 about three (3) decades.

8 Are you or members of your back panel
9 familiar with Mr. Franks?

10 MR. DON PALMER: I know Mr. Franks, yes.

11 MR. RAYMOND OAKES: And when we read the
12 last question, which is at the top of the email exchange,
13 it says:

14 "So it would be coded as at-fault under
15 the Basic program [question mark]?"

16 The answer is:

17 "No, the claim would be coded not at
18 fault, but because there's no third-
19 party policy to cover off the
20 deductible, the insured must pay it."

21 That suggests to me, Mr. Palmer, and
22 perhaps you can confirm if that would be your
23 understanding that SGI is not allocating the claims
24 expense arising from a wildlife claim to the motorist
25 involved because of that coding not-at-fault.

1 Would you agree with that
2 characterization?

3 MR. DON PALMER: No, I would not. There
4 is no reference to allocation of claims costs in this
5 whatsoever.

6 MR. RAYMOND OAKES: I agree that there
7 isn't, but given that Saskatchewan's a no-fault insurance
8 system just like Manitoba's, surely that's the only use
9 that could be made of a coding of not-at-fault would be
10 for the actual claims expense allocation?

11 MR. DON PALMER: That's speculation and
12 the not-at-fault for -- could also be used for deductible
13 purposes and he says very specifically that the
14 deductible is the responsibility of the insured. So I
15 can't read anything into this.

16 There could also be -- not-at-fault could
17 also relate to surcharges, to discounts. The SGI does
18 have a rating scale that is based on at-fault accidents,
19 so in that case, again this would not count against a --
20 somebody's discount or surcharge level. But again, there
21 is nothing in there that would indicate anything as to
22 the allocation of costs for rating purposes.

23 MR. RAYMOND OAKES: In Manitoba, MPI
24 would code that same wildlife claim as at-fault for
25 claims expense.

1 Is that correct?

2 MR. DON PALMER: No, we would rate it
3 exactly the same as Saskatchewan does. For rating pur --
4 for rating purposes, if you're talking for pooling in
5 order to allocate classification rates, then we would
6 assign all those costs to the motorcycle, but for
7 surcharge purposes, which is also rating, we would not
8 have it at-fault.

9 MR. RAYMOND OAKES: I was setting for --
10 I was asking in the context of setting the actual
11 insurance rates based on the claim expense for that
12 category of vehicle. And when I asked you yesterday
13 about SGI, you weren't aware whether they would code it
14 not-at-fault or at-fault, with respect to again insurance
15 rating purposes for calculating the rate.

16 MR. DON PALMER: And again, there's many
17 uses of not-at-fault or at-fault as I indicated, and this
18 does not indicate anything with regard to allocation for
19 rate setting purposes at a classification level.

20 MR. RAYMOND OAKES: So -- so --

21 MR. DON PALMER: So in answer to your
22 question, I'm still unaware of what they're practices are
23 and certainly this exhibit that I've been given doesn't
24 give me any further clue.

25 MR. RAYMOND OAKES: Well, perhaps since

1 you know Mr. Franks, probably -- perhaps you could take
2 the undertaking to familiarize yourself with what SGI
3 does.

4 Would you provide that undertaking?

5 MR. DON PALMER: No, I will not do that.

6 MR. RAYMOND OAKES: And is that on the
7 basis is not germane to this application?

8 MR. DON PALMER: That's correct.

9 MR. RAYMOND OAKES: Thank you for that.
10 Moving, Mr. Chairman, as I eluded, at the
11 end of the day yesterday before we adjourned, to the
12 topic of rate-line adjustment -- and that would be
13 contained in Tab number 9 of the CMMG book of materials.

14 The question I have for you, Mr. Palmer,
15 once you have that handy, the question is as follows: As
16 shown in CMMG 1-26 when you look at the bottom of the
17 left hand of that table, in 2009, due to the rate-line
18 relativity adjustment, some six thousand three hundred
19 and ten (6,310) motorcycles will receive lower rates.
20 Comparatively, when we look to the right of that table,
21 and for the previous years, in most previous years
22 motorcyclists received rate increases due to the
23 relativity adjustment.

24 Why has there been such a significant
25 change?

1 MR. DON PALMER: This year for the first
2 time we have applied rate-line offsets.

3 MR. RAYMOND OAKES: I accept that, sir.
4 Does that mean that the treatment of motorcycles in this
5 issue is now consistent with other vehicle types?

6 MR. DON PALMER: For presentation
7 purposes, yes.

8 MR. RAYMOND OAKES: Can you explain that?

9 MR. DON PALMER: In previous applications
10 and -- and I remember quite vividly, explaining the --
11 the rate-line as having to be pivoted from the top
12 upwards. And that was because, relatively speaking, the
13 -- the lower rate-group vehicles needed increases, and
14 relative to -- to the top one which had about adequate
15 rates. So that pivoting was to -- more to demonstrate
16 the rate remedies that we were seeking because of the --
17 the rate requirement that we were -- we were seeking.

18 Now it's more pivoting from the middle and
19 then doing a -- an offset after the fact. So the rate
20 result is mathematically the same; it's just, for
21 purposes of -- of transparency for the Board to see the
22 purpose of what we were trying to accomplish here, it was
23 easier to -- to use the pivot from the top.

24 MR. RAYMOND OAKES: I see. And it leads
25 me to my next question. In terms of the rate group

1 relativity lines how much judgment is involved in
2 selecting the relativities?

3

4 (BRIEF PAUSE)

5

6 MR. DON PALMER: Within the rate-line
7 itself, not much judgment. There is a line that's fit,
8 but that's only for the collision costs.

9 About 90 percent of the costs are injury
10 costs, which we really haven't tried to fit to -- because
11 it's -- seems to -- there really isn't a relationship
12 between rate group and injury costs. So to make that --
13 to look at that, that's a judgment rather than trying to
14 fit some kind of a curve to -- to that.

15 So it's a judgment to -- to add them in
16 across the board, across all rate groups. So that's
17 judgment. They align itself to fit to the collision cost
18 there's not much you -- judgement.

19 MR. RAYMOND OAKES: How about the use of
20 credibility in developing the rate group relativities;
21 judgment involved in that?

22

23 (BRIEF PAUSE)

24

25 MR. DON PALMER: I'd like to refer you to

1 CMMG-1-28 Attachment 3.

2

3

(BRIEF PAUSE)

4

5

MR. RAYMOND OAKES: It looks like it's going to take a second to boot that up. But if you want to proceed, I'll catch up with you.

8

MR. DON PALMER: We have the line-fitting diagnostics for motorcycle collision. We have assigned motorcycle collision 100 percent credibility for these purposes. And we did that because the least squares to me fit to the rate group line is almost perfect. We've got an R-square of 99 percent which means the -- the fit, and I'll use Mr. Bell's words, is extremely good.

15

So whether there -- you just can't get any better than this from -- so there's no -- nothing in here that would say they're not 100 percent credible because it's a complete fit.

19

If we go to the diagnostics in Attachment 5 for the TPO, BI, and PD relativities you'll see that the R-squared is 4 percent which is extremely poor. There's no fit there. There's no indication that there's any credibility and that's why we have added them in on a flat base across -- all all rate groups.

25

MR. RAYMOND OAKES: So the identical

1 formula would not be used if you include the credibility
2 constant for the calculation of rate group relativities
3 for motorcycles, vis-a-vis passenger vehicles and light
4 trucks.

5 Is that correct?

6

7 (BRIEF PAUSE)

8

9 MR. DON PALMER: The procedures are
10 different, yes. And that's partially because of the --
11 the low total number of motorcycles. If we used
12 credibility weighting the lines would never move. And
13 the judgment is made because of the least squares fit
14 being so accurate that this provides adequate rating.

15 I will also say that remember rate lines
16 are relative measurements, not absolute measurements of
17 rates. So from an overall rate level perspective whether
18 you use the same relativity procedure or not, is
19 irrelevant, regarding the total rate level.

20 MR. RAYMOND OAKES: And that's because
21 they add to the whole, is that basically it?

22 MR. DON PALMER: That's because it --
23 it's a relativity ranking, yes.

24 MR. RAYMOND OAKES: Are there other cases
25 though where the formula inclusive of the credibility

1 constant is different for motorcyclists than other
2 classes?

3 MR. DON PALMER: For major class purposes
4 and for use-territory (phonetic) purposes they're the
5 same.

6 MR. RAYMOND OAKES: Has the Corporation
7 considered applying credibility in this case and in any
8 other cases, based on claim numbers?

9 MR. DON PALMER: That has been discussed
10 at previous hearings and rejected.

11 MR. RAYMOND OAKES: Is the claim based
12 approach to credibility an acceptable actuarial practice?

13

14 (BRIEF PAUSE)

15

16 MR. DON PALMER: It is acceptable,
17 especially when you have claims cost largely driven by
18 frequencies. In the case of injury claims, especially
19 for motorcycles, it's not frequency driven as so much as
20 severity driven, so the claims count credibility
21 approach, in -- in my estimation, wouldn't be warranted.

22 MR. RAYMOND OAKES: It's not terribly
23 responsive to the question, but I'd ask you to move over
24 to the next tab, which is Tab 10, and we'll take a look
25 at sport bikes.

1 And at Exhibit 18-5 -- I'm looking right
2 in the middle of the page of the current units count.

3 Would you agree with me, sir, that it's
4 extremely small, nine hundred and ninety-two (992) units,
5 as reflected in that table?

6 MR. DON PALMER: And applied a small
7 credibility measure of 8.29 percent; yes, those are in
8 concert with each other.

9 MR. RAYMOND OAKES: And what would be the
10 compliment then that is applied?

11 MR. DON PALMER: That would be the
12 current relativity. I think I'm suffering death by
13 peanut butter cookie here, just a sec.

14

15 (BRIEF PAUSE)

16

17 MR. DON PALMER: I'm back. And what was
18 the question?

19 MR. RAYMOND OAKES: Well, we're pleased
20 about the fact you've evaded that horrible death.

21 The question was: What is the compliment
22 that is applied?

23 MR. DON PALMER: The compliment is the
24 current relativity.

25 MR. RAYMOND OAKES: That would be the

1 current sport bike rate differential, I guess?

2 MR. DON PALMER: The current relativity
3 of sport bikes of one point five nine (1.59).

4 MR. RAYMOND OAKES: And are there other
5 options for the compliment, for example, the average rate
6 for all motorcycles?

7

8 (BRIEF PAUSE)

9

10 MR. DON PALMER: You could use the
11 current average rate. You could also use national data,
12 if -- if you had it; relativities from -- we could
13 combine Quebec and Saskatchewan has no-fault
14 jurisdictions. I think I recall that Quebec has a
15 relativity of three and a half (3 1/2) to four (4), so
16 that -- that's a possibility that we could use as well.

17 There -- there's a few different
18 possibilities.

19 MR. RAYMOND OAKES: And depending on the
20 compliment you use, possibly the rates could go up or
21 down.

22 MR. DON PALMER: Yes.

23 MR. RAYMOND OAKES: I'm going to go back
24 in the binder to the second tab, and that's the issue --
25 or the topic of PFADs.

1 Mr. Chairman, because this is a somewhat
2 torturous and certainly technical area I provided a list
3 of my questions to Mr. Palmer this morning, with the hope
4 that the loss of the element of surprise would be more
5 than made up for by the saving in time.

6 So I propose to ask Mr. Palmer questions
7 concerning that. And, Mr. Palmer, the first question
8 would be with reference to CMMG-1-45, that is your first
9 question -- IR that's in the CMMG materials.

10 I understand that there's a new category
11 of PFAD that the Corporation has introduced and that's
12 reinsurance PFAD which was added for 2007/2008. Is that
13 correct, sir?

14 MR. DON PALMER: Not quite. The
15 reinsurance PFAD category was always in there. It's just
16 that a margin of zero (0) was chosen for that. And the
17 reason was because we have -- or had a reinsurance
18 allowance for doubtful accounts elsewhere on the books.
19 We -- this year, have may have been more consistent with
20 the standard of practice. We have eliminated the
21 allowance for doubtful accounts for uncollectible
22 reinsurance and added to the -- to the PFAD.

23 And Mr. Saranchuk or Ms. Everard was
24 asking me about that last weekend. We did give an
25 exhibit showing the difference in the PFAD and the amount

1 for uncollectible reinsurance and, in fact, the entire
2 provision went down.

3 So in fact, we did add this to the PFAD
4 but in terms of the reserves for the Corporation as a
5 whole, they went down.

6 MR. RAYMOND OAKES: So your evidence
7 would be, there'd be no double counting because you got
8 rid of what was the former credit risk margin for
9 reinsurance?

10 MR. DON PALMER: The uncollectible
11 reinsurance, yes.

12 MR. RAYMOND OAKES: In determining the
13 PFAD margins, is that work totally undertaken by Mr.
14 Christie?

15 MR. DON PALMER: We have discussions
16 about it; the final selections are his.

17 MR. RAYMOND OAKES: And in determining
18 those PFAD margins, would Mr. Christie or any actuary for
19 that matter, rely on judgment?

20 MR. DON PALMER: There are some
21 guidelines within the standard of practice but,
22 certainly, judgment comes to bear.

23 MR. RAYMOND OAKES: Thank you, sir.

24 Mr. Chairman, we're going to look at two
25 (2) CMMG IRs that aren't in my book of materials. For

1 the Board's benefits, I've photocopied both of them. I
2 propose to give them to the Board. And I had alerted Mr.
3 Palmer to that as well earlier today if they're
4 interested parties, they'll have to dig them out of their
5 own hard drive or off the disk but...

6

7 (BRIEF PAUSE)

8

9 MR. KEVIN MCCULLOCH: Mr. Oakes, can you
10 provide me with those two (2) references for your
11 Information Requests, please?

12 MR. RAYMOND OAKES: Yes, certainly, Mr.
13 McCulloch. It's -- the next one we're going to look at
14 is CMMG-1-46 and then I'll have several questions
15 concerning that IR and also some questions relating to
16 CMMG-2-27.

17

18 (BRIEF PAUSE)

19

20 CONTINUED BY MR. RAYMOND OAKES:

21 MR. RAYMOND OAKES: And, Mr. Palmer, I'd
22 provided these questions to you because the CMMG resource
23 person has looked at the total development claims PFAD
24 and, essentially, what that involves, of course, is going
25 across and adding the columns for the PFAD.

1 And I understand that as a result of that
2 aggregate in 2001 the total development claims PFAD was
3 in the order of fifty-seven million, one hundred and
4 forty-six thousand dollars (\$57,146,000).

5 Can you confirm that, sir?

6 MR. DON PALMER: Yes.

7 MR. RAYMOND OAKES: And I understand that
8 by the year 2008 that had grown to one hundred and
9 thirty-five million, nine hundred and twenty-seven
10 thousand dollars (\$135,927,000); is that correct, sir?

11 MR. DON PALMER: Yes.

12 MR. RAYMOND OAKES: And when we look at
13 the interest rate PFAD, in 2001 the value would be
14 thirty-two million, six hundred and fifty-two thousand
15 dollars (\$32,652,000) million.

16 Is that your calculation as well, sir?

17 MR. DON PALMER: Yes.

18 MR. RAYMOND OAKES: And by 2008 that had
19 grown to one hundred and one million, three hundred
20 thousand dollars (\$101,300,000); is that similarly
21 accurate, sir?

22 MR. DON PALMER: Yes.

23 MR. RAYMOND OAKES: For 2008 their
24 reinsurance PFAD in total was one million, five hundred
25 and ten thousand dollars (\$1,510,000), sir?

1 MR. DON PALMER: Yes.

2 MR. RAYMOND OAKES: And 2001 the total
3 PFAD was eighty-nine thousand -- or I'm sorry, eighty-
4 nine million, seven hundred and ninety-eight thousand
5 dollars (\$89,798,000).

6 MR. DON PALMER: Yes.

7 MR. RAYMOND OAKES: And by 2008 that had
8 grown to two hundred and thirty-eight million, seven
9 hundred and thirty-seven thousand (238,737,000)?

10 MR. DON PALMER: Yes.

11 MR. RAYMOND OAKES: So the PFAD had grown
12 roughly by about three and half (3 1/2) times?

13 MR. DON PALMER: No.

14 MR. RAYMOND OAKES: And could you explain
15 that, sir?

16 MR. DON PALMER: Two hundred and thirty-
17 eight thousand, seven hundred and thirty-seven (238,717)
18 divided by eighty-nine seven ninety-eight (89,798) is two
19 point six five nine) 2.659.

20 So it's two point six (2.6) times, not
21 three point five (3.5).

22 MR. RAYMOND OAKES: With reference to
23 CMMG-1-46, does the basic IBNR exclude the PFAD?

24 MR. DON PALMER: No.

25 MR. RAYMOND OAKES: And when we look at

1 CMMG-IR-2-27, did the PFAD increase for every PIPP
2 coverage?

3 MR. DON PALMER: Sorry, that reference
4 again was 1-45?

5 MR. RAYMOND OAKES: This is in 2-27.

6 MR. DON PALMER: Yes, it -- they did
7 increase. The margins were the same as had previously
8 been used with the exception that the reinsurance margin
9 was added as we have -- have discussed.

10 But -- so, yes, the -- a month percent
11 increased but the margins stayed the same. The
12 reinsurance was added so the rest is, essentially,
13 mathematical that would be related to the margin on
14 interest rate.

15 MR. RAYMOND OAKES: My understanding is
16 that the -- the increase for PIPP IRE was in the order of
17 about one point two seven (1.27) percent.

18 Would you confirm that, sir?

19

20 (BRIEF PAUSE)

21

22 MR. DON PALMER: The way these numbers
23 are -- are portrayed, it's not really a one point two
24 seven (1.27) percent increase. It's in -- one point two
25 seven (1.27) percent absolute increase between those two

1 (2) percentages.

2 MR. RAYMOND OAKES: And for the PIPP
3 accident benefits, on that same type of calculation, the
4 increase could be computed at one point eight (1.8)
5 percent, sir.

6 Do you agree with that?

7 MR. DON PALMER: Yes.

8 MR. RAYMOND OAKES: And if that didn't
9 occur, how much lower would the PFAD be for that
10 coverage?

11 MR. DON PALMER: This is one of those
12 questions that has a flawed premise, that we have set --
13 the margins are exactly the same. So, as long as you
14 have set the margins the same that are part of the
15 required standards of practice for IBNR, and PFAD is part
16 of the IBNR not in addition to the IBNR, that you can't
17 really say take out that increase because that's just
18 what happens with this application of identical margins.
19 So it -- it's not a question that really makes any sense.

20 MR. RAYMOND OAKES: Okay, let me try this
21 one (1) then. If -- if you had the lower PFAD, would
22 they -- with all other things being equal, would the, and
23 this case the '07/'08, net income be higher?

24 MR. DON PALMER: The PFAD margins are the
25 same.

1 MR. RAYMOND OAKES: And just following
2 from the information on that table, in 2001 I understand
3 the total Basic IBNR was one hundred and thirty-three
4 million forty seven thousand dollars (\$133,047,000)?

5 MR. DON PALMER: Yes.

6 MR. RAYMOND OAKES: And in 2008 the total
7 Basic IBNR was four hundred and sixty-four million two
8 hundred and seventy four thousand dollars (\$464,274,000)?

9 MR. DON PALMER: Yes.

10 MR. RAYMOND OAKES: Comparing the
11 information we have in CMMG-IR-1-46 and that that we've
12 seen in 2-25 for PIPP IR-I is the main component of the
13 total IBNR for this coverage PFAD?

14

15 (BRIEF PAUSE)

16

17 MR. DON PALMER: About 47 percent, yes.

18 MR. RAYMOND OAKES: Yeah, I made it that
19 it's -- the PFAD was about 107 million of the 154 million
20 for the total IBNR.

21

22 (BRIEF PAUSE)

23

24 MR. DON PALMER: Yes, sorry, it's about
25 70 percent.

1 MR. RAYMOND OAKES: And as far as the
2 lost of fel -- lost development factors used in the
3 ratemaking methodology, how do they enter into the
4 calculation rates?

5 Can you confirm that they are being used
6 for the estimation of claims costs?

7 MR. DON PALMER: The lost development
8 factors are used within the actuarial review to come up
9 with the ultimate claims levels. The ultimate claims for
10 each year are then forecasted into the future into the
11 '09/'10 accident year and the '10/'11 accident year and
12 rates are -- are set on those basis. So, there is an
13 indirect link between the lost development factors and
14 the rates.

15 MR. RAYMOND OAKES: Okay, and let's
16 explore that a little bit. All other things being equal,
17 if lost development factors change, do the rates change?

18 MR. DON PALMER: Not necessarily.

19 MR. RAYMOND OAKES: If these factors
20 changed in a manner that increased IBNR, with all other
21 things being equal, would the required rates be higher?

22 MR. DON PALMER: No, and -- and I'll --
23 and I'll explain that.

24 IBNR is just the component of your unpaid
25 claims reserves. So, if you change something with regard

1 to your reser -- your case reserving methodology, as we
2 had a major change in 2005/'06, you certainly cannot look
3 at the IBNR in isolation, you would have to look at the
4 entire unpaid claims or, more specifically, the ultimate
5 claims that are used underlying the forecasts for the
6 rates for '09/'10 and '10/'11.

7 So, to only look at the IBNRs and say that
8 that may or may not drive rates, that would be
9 inaccurate.

10 MR. RAYMOND OAKES: Perhaps if we look at
11 an example and going back to CMMG-1-46, in the answer
12 halfway in the middle of the table, it indicates that the
13 IBNR for PIPP IR-I has shifted from a low of negative
14 thirty-seven million two hundred and nine thousand (-
15 37,209,000) in 2004 to a hundred and fifty-four million
16 six hundred and eighteen thousand (154,618,000) in 2008.

17 All other things being equal, if the IBNR
18 had remained in the negative range, would rates be lower?

19 MR. DON PALMER: And again, I would say
20 that that's a flawed premise because all things were not
21 equal. We had a major change in case reserving
22 methodologies and I think if you would take a look at the
23 proper exhibit, Mr. Oakes, that the ultimate claims
24 didn't change by that much.

25 MR. RAYMOND OAKES: Are you able to

1 answer that in the manner that I asked it, all other
2 things if they were equal? If the IBNR had remained in
3 the negative range, would rates be lower?

4 MR. DON PALMER: Again, I'm not going to
5 answer that because it's a ridiculous premise.

6 MR. RAYMOND OAKES: In terms of the
7 selection of loss development factors and ultimately the
8 level of IBNR, is the work done entirely by Mr. Christie?

9 MR. DON PALMER: No. There is work
10 that's done in-house by our actuarial services
11 department.

12 MR. RAYMOND OAKES: And in developing
13 loss development factors, would Mr. Christie, or any
14 actuary for that matter, rely on judgment?

15 MR. DON PALMER: Yes.

16 MR. RAYMOND OAKES: Would there be
17 management input from MPI into the calculation of IBNR?

18 MR. DON PALMER: Could you define
19 "management input," please? The head of our actuarial
20 services department is a manager.

21 MR. RAYMOND OAKES: Okay. How -- are
22 draft analysis prepared and discussed with anyone in MPI
23 management or executive prior to the reports being
24 finalized?

25 MR. DON PALMER: Yes.

1 MR. RAYMOND OAKES: And from those --
2 from those discussions changes would be made sometimes?

3 MR. DON PALMER: From time to time, as
4 within any analysis, there may be underlying business
5 factors that weren't taken into consideration, but, the
6 final selection of the unpaid claims reserves would be
7 that of the appointed actuary.

8 MR. RAYMOND OAKES: I'm going to move to
9 another topic at this juncture, if I could just have a
10 second, please.

11

12 (BRIEF PAUSE)

13

14 MR. RAYMOND OAKES: The next topic I'd
15 like to ask the MPI panel about would be referenced in
16 CMMG book of materials at Tab 12 and this is the details
17 of the components of the classification plan that allows
18 customers to substitute a pleasure-use vehicle for an
19 all-purpose vehicle.

20 And in referring to CMMG Interrogatory 1-
21 29, can you tell me, are light trucks that are considered
22 private passenger vehicles eligible for this program?

23 MR. DON PALMER: No.

24 MR. RAYMOND OAKES: And how many private
25 passenger cars are involved in this program?

1 (BRIEF PAUSE)

2

3 MR. DON PALMER: I don't have that
4 offhand, sir.

5 MR. RAYMOND OAKES: Could you provide
6 that by way of undertaking?

7 MR. DON PALMER: It's not a program that
8 people sign up for, so, I would have no way of -- of
9 knowing that. It's not a specific policy provision.

10 MR. RAYMOND OAKES: Okay. All of the
11 private passenger cars are -- are eligible for it, I
12 guess?

13 MR. DON PALMER: Only if you own two (2)
14 or more.

15 MR. RAYMOND OAKES: And since the private
16 passenger cars involved are likely to be in different
17 rate groups, how does the allowance of that provision not
18 undermine the classification system?

19 MR. DON PALMER: There's -- they're both
20 given CLEAR rate groups. They're both given or one (1)
21 would be given an all-purpose and one (1) would be
22 pleasure; there's no undermining of the classification
23 system. They're very similar.

24 MR. RAYMOND OAKES: And the CMMG asked
25 the question in IR-2-23. And I would ask you to assume,

1 sir, that there are two (2) households in Manitoba. In
2 one (1) household they own a Nissan Versa and a Toyota
3 Corolla, both being passenger cars. The second household
4 they own a Nissan Versa and a Toyota Tundra truck.

5 If both households have two (2) people go
6 to work at different times, is it correct that the first
7 household can insure one (1) of the vehicles as all
8 purpose as the other is pleasure and the other cannot?

9 MR. DON PALMER: No, that would be
10 incorrect. If they're both used for going to work on a
11 regular basis, they would both have to be insured as all
12 purpose.

13

14 (BRIEF PAUSE)

15

16 MR. RAYMOND OAKES: And if a household
17 had two (2) motorcycles, could they insure one (1) as all
18 purpose and the other one as pleasure and substitute
19 those?

20 MR. DON PALMER: No.

21 MR. RAYMOND OAKES: Would you agree with
22 me that's not equitable treatment between the passenger
23 car-owning households and the motorcycle-owning
24 households?

25

1 (BRIEF PAUSE)

2

3 MR. DON PALMER: The substitute vehicle
4 provision is longstanding in legislation and there have
5 not been significant challenges to that as it stands.

6 MR. RAYMOND OAKES: I don't think that is
7 what I asked you in the question. I asked, in the
8 Corporation's view, that was equitable treatment between
9 the passenger car-owning household and the motorcycle-
10 owning household.

11 MR. DON PALMER: It's equitable in terms
12 that they both are in accordance with legislation.

13 MR. RAYMOND OAKES: So what you're saying
14 is, it's legal but not necessarily equitable?

15 MR. DON PALMER: It's longstanding within
16 the -- within legislation.

17 MR. RAYMOND OAKES: And by "legislation"
18 you mean the regulations to the MPI Act?

19 MR. DON PALMER: Yes.

20 MR. RAYMOND OAKES: If I can refer you to
21 that IR-2-23, the last paragraph on that first page of
22 the response.

23 What evidence does the Corporation have
24 that the problem that you allude to would be a problem or
25 may become a problem?

1 MR. DON PALMER: That's the last
2 paragraph on the first page or the last paragraph in the
3 response?

4 MR. RAYMOND OAKES: On the first page.
5 I'll read it or perhaps I could ask you to read it
6 starting with, "If changes...?"

7 MR. DON PALMER: "If changes were made to
8 the two (2) car family provision to
9 allow for the substitution of vehicles
10 between varying vehicle types, the
11 integrity of the risk classification
12 plan would be undermined. This would
13 result in instances where, for example,
14 the rate for an all-purpose truck in a
15 higher rate group would be less when
16 compared to the same or lower rate
17 group for a passenger car with pleasure
18 use."

19 MR. RAYMOND OAKES: And the question
20 then, Mr. Palmer, is: What evidence does the Corporation
21 that this is a problem or may become a problem?

22 MR. DON PALMER: Because the rating
23 between pleasure -- or between trucks and cars is so
24 different.

25 MR. RAYMOND OAKES: And certainly the

1 rating could be similarly different whether someone owns
2 a Toyota Corolla or a Mustang 5 litre.

3

4 (BRIEF PAUSE)

5

6 MR. DON PALMER: But -- but those cars
7 have the same rate line and the same base rate, so,
8 they're certainly more similar than -- than that of the
9 car and the truck that you had talked about.

10

11 (BRIEF PAUSE)

12

13 MR. RAYMOND OAKES: If I could refer you,
14 Mr. Palmer, to Tab 14, and this concerns CMMG's
15 interrogatories concerning trailers and relates to the
16 same issue that we've been talking about as motorcyclists
17 as owners of other vehicles.

18 And referring to the information in that
19 table in answer to CMMG-1-31, do most of the lost costs
20 for trailers relate to comprehensive coverage?

21

22 (BRIEF PAUSE)

23

24 MR. DON PALMER: Yes, I would agree with
25 that, it's about 15 million out of 18 million over this

1 five (5) year period.

2 MR. RAYMOND OAKES: So about 90 percent
3 probably.

4

5 (BRIEF PAUSE)

6

7 MR. DON PALMER: It's closer to 80, but
8 it's certainly a majority.

9 MR. RAYMOND OAKES: And there's more than
10 a hundred thousand (100,000) trailers in the province?

11 MR. DON PALMER: Yes.

12 MR. RAYMOND OAKES: And would about a
13 third (1/3) of those have a declared value greater than
14 twenty-five hundred dollars (\$2,500)?

15 MR. DON PALMER: Subject to check, yes.

16

17 (BRIEF PAUSE)

18

19 MR. RAYMOND OAKES: Mr. Palmer, I just
20 have some odds and ends at this point, and if I could
21 refer you, page 46, it's the -- almost the last page, the
22 second last page in the materials, CMMG IR, it shows the
23 differential between pleasure and all purpose for 2008 is
24 70.4 percent for private passenger vehicles, 56.7 for
25 light trucks, and 50.2 for motorhomes.

1 What would the differential be for
2 motorcycles?

3

4 (BRIEF PAUSE)

5

6 MR. DON PALMER: This specifically
7 wouldn't be the differential, this would be the average
8 difference between pleasure and all purpose rates. I
9 don't have handy the difference between pleasure and all
10 purpose rates for motorcycles, that would be different
11 than the differential.

12 MR. RAYMOND OAKES: Is that something
13 that you could provide by way undertaking?

14 MR. DON PALMER: Yes, we can do that.

15 MR. RAYMOND OAKES: I thank you for that.

16 MR. DON PALMER: The -- the differential
17 or the difference between rates to be comparable with
18 this chart?

19 MR. RAYMOND OAKES: I think it would be
20 most helpful to be on the same calculation as shown in
21 this question.

22 MR. DON PALMER: We can do that.

23 MR. RAYMOND OAKES: And if you could also
24 indicate how it's been determined for 2009 rates as well?

25 MR. DON PALMER: So you want this for

1 both 2004 through '08 and for '09 rates as well?

2 MR. RAYMOND OAKES: Even just 2008 and
3 2009 would be good.

4 MR. DON PALMER: We'll do that.

5
6 --- UNDERTAKING NO. 31: MPI to provide the
7 differential for motorcycles
8 for 2008 and how these
9 numbers have been determined
10 for 2009

11

12 CONTINUED BY MR. RAYMOND OAKES:

13 MR. RAYMOND OAKES: The last reference,
14 and then I will have some short snappers so don't start
15 eating any peanut butter cookies at this juncture, is
16 CMMG-1-22 and the question would be, Mr. Palmer:

17 Are there plans in the new Bonus/Malus
18 system to deal with that problem?

19 MR. DON PALMER: To deal with what
20 problem?

21 MR. RAYMOND OAKES: The problem of
22 persons jointly owning vehicles to avoid the loss of
23 discount on a vehicle by switching the rating to the
24 other person?

25 MR. DON PALMER: In the current proposal

1 that is certainly in -- in the public consultation phase,
2 there is not that provision, no.

3 MR. RAYMOND OAKES: And when would be the
4 last time the Corporation increased maximum insured and
5 maximum declared values?

6 MR. DON PALMER: Would you accept a long
7 time, as an answer?

8 MR. RAYMOND OAKES: Well, we are getting
9 towards the end of the day and I can understand the
10 exhaustion with some of the questions over the last two
11 (2) weeks.

12 Given that very precise answer, can you
13 tell me whether vehicle prices, on average, would have
14 risen since that very long time ago?

15 MR. DON PALMER: Vehicle prices have --
16 have risen since a long time.

17 MR. RAYMOND OAKES: Okay. And if a
18 customer has a vehicle that's worth more than the fifty
19 thousand dollar (\$50,000) maximum, can they buy
20 additional coverage through the Autopac extension
21 program?

22 MR. DON PALMER: Yes.

23 MR. RAYMOND OAKES: And given that the
24 level of those vehicles, the values, haven't changed over
25 that very long time, and -- and the phenomenon of higher

1 vehicle prices, does this, in fact, shift revenue toward
2 the non-regulated monopoly -- or towards the non-
3 regulated Autopac extension program?

4 MR. DON PALMER: Slightly. There is
5 still a very small percentage of our fleet that would be
6 worth in excess of fifty thousand dollars (\$50,000).

7 MR. RAYMOND OAKES: And are you aware of
8 other insurers that offer that coverage in Manitoba?

9 MR. DON PALMER: I'm not aware if there
10 are or there aren't?

11 MR. RAYMOND OAKES: The questions that I
12 wish to close with relate to the information contained at
13 Tab 11 of the CMMG book and deal with motorcycle rates,
14 specifically the increases, and the first production in
15 that book is CMMG-IR-2-16.

16 As shown in that interrogatory, has the
17 average rate for motorcyclists risen about six hundred
18 and five dollars (\$605) since 2000/'01, presuming that
19 next year's rates are approved?

20 MR. DON PALMER: On average, yes.

21 MR. RAYMOND OAKES: And would you agree
22 with me that's approximately a doubling of the rates?

23 MR. DON PALMER: About two and a half (2
24 1/2) times.

25 MR. RAYMOND OAKES: And has any other

1 major use class experienced such an increase?

2

3

(BRIEF PAUSE)

4

5 MR. DON PALMER: I don't know the exact
6 percentage of other major classes but it's probably less
7 than this.

8 MR. RAYMOND OAKES: And the next page in
9 -- in that -- in that unit there, referring to TI.3 Part
10 2, I understand that approximately only fourteen (14)
11 private passenger vehicles are being asked to have a rate
12 increase of more than a hundred dollars (\$100)?

13

14

(BRIEF PAUSE)

15

16 MR. DON PALMER: That's correct.

17 MR. RAYMOND OAKES: And based on the
18 number of private passenger vehicles, if we look at what
19 the percentage for fourteen (14) of them getting that
20 rate increase, that would be almost a 0 percent of the
21 total private passenger population.

22 MR. DON PALMER: It's a tiny percentage,
23 yes.

24 MR. RAYMOND OAKES: And how many
25 motorcycles would receive a rate increase of more than a

1 hundred dollars (\$100)? And I'd suggest to you some five
2 thousand, seven hundred and eighty-five (5,785) of them
3 do.

4

5 (BRIEF PAUSE)

6

7 MR. DON PALMER: Could you give me that
8 number again, Mr. Oakes?

9 MR. RAYMOND OAKES: Certainly. I'm
10 suggesting to you that some five thousand, seven hundred
11 and eighty-five (5,785) motorcycles receive a rate
12 increase of more than a hundred dollars (\$100).

13 MR. DON PALMER: That's correct.

14 MR. RAYMOND OAKES: And I understand that
15 represents 52 percent of the motorcyclists.

16 MR. DON PALMER: Fifty-one and a half (51
17 1/2), close enough.

18 MR. RAYMOND OAKES: And I'd suggest to
19 you that some four thousand, seven (4,007) motorcyclists
20 receive a rate increase of more that 15 percent.

21

22 (BRIEF PAUSE)

23

24 MR. DON PALMER: Yes, that's correct.

25 And -- and I would -- just the clarification that these

1 are motorcycle major class, so, that would include mopeds
2 and mopeds being increased by 25 percent would all be in
3 there.

4 MR. RAYMOND OAKES: The information I
5 have is that only five (5) private passenger vehicles
6 would suffer that same increase of more than 15 percent.

7

8 (BRIEF PAUSE)

9

10 MR. DON PALMER: Yes.

11 MR. RAYMOND OAKES: Mr. Chairman, that
12 was the last of those questions. I thank you for your
13 indulgence.

14 THE CHAIRPERSON: Thank you, Mr. Oakes.
15 Mr. Saranchuk?

16

17 RE-CROSS-EXAMINATION BY MR. WALTER SARANCHUK:

18 MR. WALTER SARANCHUK: Yes, I just have a
19 couple of questions before we adjourn. This arises out
20 of the filing of the 2nd quarter report, Exhibit 17 as I
21 understand it, MPI Exhibit 17.

22 And I just draw your attention, Mr.
23 Palmer, to page 4 and the paragraph on the right-hand
24 side of the page, first paragraph at the top about half
25 way through, there's an indication there that on March

1 1st, 2007, \$39 million and on July 1st, 2008, \$31.7
2 million was transferred from competitive lines retained
3 earnings to fund the EDF.

4 Is that correct?

5 MR. DON PALMER: That's correct.

6 MR. WALTER SARANCHUK: And the activity
7 as indicated in the last line of that -- or the last
8 sentence of that paragraph, that is the activity to
9 August 31st, 2008 has reduced the -- the EDF to -- oh,
10 I'm sorry, by \$6.9 million to \$63.8 million?

11 MR. DON PALMER: That's correct.

12 MR. WALTER SARANCHUK: And just moving on
13 to the next page, this is page 5 of the last paragraph on
14 that page.

15 Compared to a net loss of some \$7.5
16 million which was projected for the outlook period in the
17 1st quarter where at the end of the 1st quarter it
18 appears that the Corporation is now projecting that net
19 income from operations will be in the order of \$26.6
20 million during the current fiscal year?

21 MR. DON PALMER: On a corporate basis,
22 yes.

23 MR. WALTER SARANCHUK: And how much for
24 Basic, sir, in round figures?

25 Can you give that to us by way of an

1 undertaking, or have you got some round figure you can
2 give us now?

3 MR. DON PALMER: We'll take that as an
4 undertaking.

5

6 --- UNDERTAKING NO. 32: MPI to indicate what the net
7 income for Basic will be in
8 the 1st quarter

9

10 CONTINUED BY MR. RAYMOND OAKES:

11 MR. RAYMOND OAKES: And does the forecast
12 for 2008/'09 have to be updated in the circumstances?
13 That -- that is the one filed with the Board in this
14 General Rate Application.

15 MR. DON PALMER: As -- the past months
16 the forecast is replaced with actuals, that would be
17 true. We don't see any reason to -- to change the
18 forecast of the remaining six (6) months.

19 MR. RAYMOND OAKES: Thank you, sir.
20 Those are all my questions, Mr. Chairman.

21

22 (PANEL RETIRES)

23

24 THE CHAIRPERSON: Okay. Thank you and
25 thank you, panel, again and we'll see you all next week

1 on Monday at nine o'clock.

2

3 --- Upon adjourning at 3:55 p.m.

4

5

6

7 Certified correct,

8

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12 _____
Cheryl Lavigne, Ms.

13

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