"When You Talk - We Listen!"

MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA PUBLIC INSURANCE CORPORATION (MPI)

2019/2020 GENERAL RATE APPLICATION

HEARING

Before Board Panel:

Robert Gabor, Q.C. - Board Chairperson

Irene Hamilton - Board Member

Carol Hainsworth - Board Member

Robert Vandewater - Board Member

HELD AT:

Public Utilities Board

400, 330 Portage Avenue

Winnipeg, Manitoba

October 16, 2018

Pages 1 to 482

1 APPEARANCES

2

3 Kathleen McCandless )Board Counsel

4 Robert Watchman )Board Counsel

5

6 Steven Scarfone )Manitoba Public

7 Anthony Guerra )Insurance

8

9 Byron Williams (np) )CAC (Manitoba)

10 Katrine Dilay )

11

12 Raymond Oakes )CMMG

13

14 Erika Miller (np) ) CAA Manitoba

15

16

17

18

19

20

21

22

23

24

25

1 TABLE OF CONTENTS

2 Page No.

3 List of Exhibits 5

4 List of Undertakings 55

5

6 MPI WITNESS PANEL 2 - MPI INVESTMENTS/CAPITAL

7 MAINTENANCE PROVISION/RATE STABILIZATION

8 RESERVE/DYNAMIC CAPITAL ADEQUACY TESTING PANEL

9 LUKE JOHNSTON, Previously Sworn

10 GLENN BUNSTON, Affirmed

11 MARK GIESBRECHT, Previously Sworn

12 DAVE MAKARCHUK, Sworn

13

14 Examination-in-Chief by Mr. Steve Scarfone 245

15 Cross-examination by Ms. Kathleen McCandless 370

16

17

18

19 Certificate of Transcript 482

20

21

22

23

24

25

LIST OF EXHIBITS


| EXHIBIT NO. | DESCRIPTION | PAGE NO. |
|---|---|---|
| MPI-22 | Presentation from the members of MPI who are giving the investment rate stabilization reserve and capital maintenance provision presentation | 244 |
| MPI-23 | Presentation from Mr. Makarchuk from Mercer. | 244 |
| MPI-24 | Quarter to financial report from MPI | 245 |

LIST OF UNDERTAKINGS


| NO. | DESCRIPTION | PAGE NO. |
|---|---|---|
| 2 | MPI to provide the proportion of the pension benefit portfolio based on the relative size of the payroll to be allocated to Basic | 396 |
| 3 | MPI to provide an explanation for the decrease in Basic's share of income on pension assets from 2019/'20 to 2020/'21 | 400 |
| 4 | MPIC to provide a black line version of the transitional investment policy statement | 409 |

1 --- Upon commencing at 9:03 a.m.
2
3 THE CHAIRPERSON: Good morning,
4 everyone. Ms. McCandless, could you go through today.
5 MS. KATHLEEN MCCANDLESS: Good morning,
6 Mr. Chair, members of the Panel. Today we have the
7 MPI Panel Number 2, which is found at Item 5 on page 2
8 of the procedural outline. It's the testimony of the
9 MPI investments, capital maintenance provision, rate
10 stabilization reserve and Dynamic Capital Adequacy
11 Testing panel.
12 We will hear from them in their direct
13 this morning and then we'll continue with cross-
14 examination, which I expect will go to the end of the
15 day and run into tomorrow, thank you.
16 THE CHAIRPERSON: Thank you. Mr.
17 Scarfone..?
18 MR. STEVE SCARFONE: Thank you, Mr.
19 Chair. Good morning, Panel members. Just before
20 MPIC begins with its witnesses, Mr. Guerra has a few
21 exhibits that we need to file this morning.
22 MR. ANTHONY GUERRA: Yes, good morning,
23 Chair and members of the Board. MPI does have three
24 (3) exhibits that it wishes to tender this morning.
25 The first is MPI Exhibit Number 22. Sorry, MPI

1 Exhibit Number 22, which is the presentation from the
2 members of MPI who are giving the investment rate
3 stabilization reserve and capital maintenance
4 provision presentation, and that's been circulated
5 amongst the members present today.
6
7 --- EXHIBIT NO. MPI-22: Presentation from the
8 members of MPI who are
9 giving the investment rate
10 stabilization reserve and
11 capital maintenance
12 provision presentation
13
14 MR. ANTHONY GUERRA: MPI Exhibit
15 Number 23, which is the presentation from Mr.
16 Makarchuk from -- from Mercer, which has also been
17 circulated amongst the members today.
18
19 --- EXHIBIT NO. MPI-23: Presentation from Mr.
20 Makarchuk from Mercer.
21
22 MR. ANTHONY GUERRA: And then finally
23 Exhibit Number 24, which is the quarter to financial
24 report from MPI which I understand is being -- is in
25 the process of being circulated. So, MPI wishes to

1 mark all those as exhibits this morning.
2
3 --- EXHIBIT NO. MPI-24: Quarter to financial
4 report from MPI
5
6 MR. STEVE SCARFONE: And, Mr.
7 Chairperson, before I begin with the introductions of
8 the panel members, if Mr. Christle wants to swear the
9 witnesses in, including Mr. Makarchuk, please.
10
11 MPI WITNESS PANEL 2 - MPI INVESTMENTS/CAPITAL
12 MAINTENANCE PROVISION/RATE STABILIZATION
13 RESERVE/DYNAMIC CAPITAL ADEQUACY TESTING PANEL
14 LUKE JOHNSTON, Previously Sworn
15 GLENN BUNSTON, Affirmed
16 MARK GIESBRECHT, Previously Sworn
17 DAVE MAKARCHUK, Sworn
18
19 EXAMINATION-IN-CHIEF BY MR. STEVE SCARFONE:
20 MR. STEVE SCARFONE: Very good. So
21 before we begin, just to reit -- Ms. McCandless
22 indicated that today's panel will be speaking to the
23 issues of investment, the rate stabilization reserve,
24 the Dynamic Capital Adequacy Test and the capital
25 maintenance provision. I'll begin with introductions

1 on my far left. Mr. Giesbrecht, of course, was on the
2 executive panel yesterday, but he is also new to the
3 General Rate Application process this year.
4 And so, Mr. Giesbrecht, if I could,
5 sir, could you just briefly describe for the Panel
6 members what your job title is and your job duties
7 with Manitoba Public Insurance.
8 MR. MARK GIESBRECHT: Certainly. So
9 my title is VP Finance and Chief Financial Officer.
10 I'm responsible for the teams that handle financial
11 reporting, accounts payable, accounts receivable,
12 payroll, banking and treasury, budgeting, as well as
13 the value management office, regulatory affairs and
14 our segregation and special accounts.
15 MR. STEVE SCARFONE: Thank you, sir.
16 And prior to your arrival at Manitoba Public
17 insurance, what is your experience in terms of both
18 education and work experience, please.
19 MR. MARK GIESBRECHT: I've been with
20 MPI about one (1) year now. Prior to joining MPI, I
21 was Vice-President of Finance at Western Financial
22 Group where I was responsible for three (3) business
23 units, two (2) were federally related insurance
24 companies, one (1) life and one (1) P&C and I was also
25 responsible for a niche P&C broker. Prior to that --

1 that was from 2014 to 2017. From 2011 to 2014 I was
2 Vice-President Finance for Western Life Insurance
3 which also is a subsidiary of Western Financial Group,
4 and I first got into the insurance industry about
5 eighteen (18) years ago as a independent broker
6 selling life insurance and financial products.
7 MR. STEVE SCARFONE: Thank you, Mr.
8 Giesbrecht. And finally, sir, as part of this year's
9 General Rate Application did you have a hand in
10 authoring any portions of the application itself?
11 MR. MARK GIESBRECHT: My primary role
12 was more of a reviewer. I would have had some
13 authoring but primary as a reviewer of the materials.
14 MR. STEVE SCARFONE: And that would've
15 been the investments and other related matters?
16 MR. MARK GIESBRECHT: Correct.
17 MR. STEVE SCARFONE: Thank you. And
18 next to Mr. Giesbrecht is Mr. Johnston.
19 Sir, you're the chief actuary for MPIC,
20 correct?
21 MR. LUKE JOHNSTON: That's correct.
22 MR. STEVE SCARFONE: And, sir, you've
23 had a hand, obviously, in preparing a number of
24 documents that are before the Board in this year's
25 application?

1 MR. LUKE JOHNSTON: Yes, definitely.
2 MR. STEVE SCARFONE: Including the
3 Dynamic Capital Adequacy Test?
4 MR. LUKE JOHNSTON: Correct.
5 MR. STEVE SCARFONE: And all the
6 information related to the capital maintenance
7 provision as I understand it, correct?
8 MR. LUKE JOHNSTON: That's right.
9 MR. STEVE SCARFONE: Is there anything
10 else that was the focus of your -- of your work as it
11 concerned the application?
12 MR. LUKE JOHNSTON: Well, in -- in
13 this particular panel investments -- the investment
14 department also reports me in the -- in the
15 organizational chart and actuarial. So, these are
16 very much in my realm.
17 MR. STEVE SCARFONE: Okay, thank you,
18 Mr. Johnston.
19 And to Mr. Johnston's right is Glenn
20 Bunston, sir. You're the manager investments for
21 Manitoba Public Insurance?
22 MR. GLENN BUNSTON: Yes, that's
23 correct.
24 MR. STEVE SCARFONE: And how long have
25 you been managing the investments at MPIC, sir?

1 MR. GLENN BUNSTON: I've worked at
2 MPIC for almost 15 1/2 years and been manager of the
3 investment department for about 12 1/2 years.
4 MR. STEVE SCARFONE: Thank you. And
5 what are your designations, sir?
6 MR. GLENN BUNSTON: So I'm a chartered
7 financial analyst and also have a second designation
8 in risk management. I'm a chartered alternative
9 investment analyst.
10 MR. STEVE SCARFONE: Okay. And just
11 briefly could you describe what your duties, your day-
12 to-day duties would be as manager investments?
13 MR. GLENN BUNSTON: Sure. So I --
14 responsible for a small group of individuals. We
15 oversee the investment portfolio. We report on the
16 performance and risk of the portfolio to senior
17 management at MPI and the Board of Directors, and we
18 also conduct research to assist the investment
19 committee in -- and -- and the Assistant Deputy
20 Minister of Finance of the province in making
21 strategic and policy type decisions regarding our
22 investments.
23 MR. STEVE SCARFONE: Thank you. And
24 so I understand, sir, that you sit as a member of the
25 investors group -- or sorry, the working group for the

1 investment committee?
2 MR. GLENN BUNSTON: Yes. So my group
3 prepares all of the material for that committee, and I
4 attend every meeting and present the material to the
5 committee members.
6 MR. STEVE SCARFONE: And have you been
7 in that role since you've been manager of investments?
8 MR. GLENN BUNSTON: Yes, I have.
9 MR. STEVE SCARFONE: All right. And I
10 understand, Mr. Bunston, that you'll be presenting
11 today on the new investment strategy that MPIC plans
12 to implement; is that correct?
13 MR. GLENN BUNSTON: That's correct,
14 yeah.
15 MR. STEVE SCARFONE: And do you adopt
16 this particular presentation as part of your direct
17 evidence here this morning?
18 MR. GLENN BUNSTON: Yes, I do.
19 MR. STEVE SCARFONE: And, Mr.
20 Johnston, I was remiss in asking you, sir, I
21 understand you have a role in today's presentation as
22 well?
23 MR. LUKE JOHNSTON: Yes, I do.
24 MR. STEVE SCARFONE: And do you adopt
25 what you will be presenting to the Board as part of

1 your direct examination?
2 MR. LUKE JOHNSTON: Yes.
3 MR. STEVE SCARFONE: Okay, thank you.
4 And so, Mr. Chairperson, what I propose to do is have
5 the MPIC witnesses first presented to the Board and
6 then when Mr. Makarchuk is up we'll go through briefly
7 his qualifications because he's been prequalified.
8 THE CHAIRPERSON: Thank you.
9
10 CONTINUED BY MR. STEVE SCARFONE:
11 MR. STEVE SCARFONE: Thank you. So,
12 gentlemen, are you ready to begin?
13 MR. GLENN BUNSTON: Yes, I am.
14 Well, I'm pleased to be here and
15 present. I've attended the meetings in the past in
16 the back row, but this is my first opportunity to
17 testify, so, it's my -- my pleasure today to speak to
18 you about the investment strategy at Manitoba Public
19 Insurance.
20 And so you can see from the agenda
21 before you we'll be talking about our investments and
22 the Asset Liability Management Study that we
23 completed. Sorry, actually if you could turn to the
24 next slide. This is the -- yes. And one (1) more
25 slide.

1 Okay, so we'll be talking about the --
2 the objectives for our investment portfolio. The
3 Asset Liability Management Study that we completed;
4 the implementation of the new investment strategy that
5 resulted from the ALM study and, finally, our -- our
6 interest rate forecast.
7 So next slide, please. So our
8 investment objectives were determined by our Board of
9 Directors and approved by the government and our
10 strategy, essentially, is to try to reduce the
11 volatility of the premium that we charged to customers
12 and we plan to do that by directly matching our
13 investments to our liabilities and specifically
14 developing unique investment strategies for each
15 portfolio.
16 And, really, the goal is to ensure that
17 we have capital available to pay for claims when
18 necessary. And finally, the goal is to have
19 appropriate levels of risk for each portfolio which is
20 driven by the purpose of each portfolio which are
21 quite distinct and those purposes and risk levels are
22 set out in our investment policy statement which were
23 determined by our Board of Directors.
24 So as you know, this Board ordered us
25 to complete the Asset Liability Management Study. We

1 hired Mercer to complete that study and worked with
2 them in the fall of 2017. There were three (3)
3 phases. The first two (2) phases were completed by
4 December and the final phase, the third phase, was
5 completed in January of 2018.
6 So the -- the recommendations coming
7 out of the study was to -- to segregate the assets
8 within our portfolio. We currently have a co-mingled
9 portfolio that supports all of our lines of business
10 and so going forward, we will have unique investment
11 strategies for each of our line -- three (3) lines of
12 business, as well as for our RSR and for post-
13 retirement benefits, which is primarily pension
14 obligations.
15 Secondly, we plan to significantly de-
16 risk the assets backing our liabilities by removing
17 equities and alternative investments from that
18 portfolio.
19 Thirdly, we will diversify and lengthen
20 the duration of our fixed income portfolio to be a
21 better match to our liabilities and to provide
22 additional yield. And then we plan to diversify our
23 equity portfolio by adding exposure to global equities
24 and, finally, will reduce our allocation to real
25 estate in order to fund the purchase of additional

1 fixed income assets.
2 MR. STEVE SCARFONE: Mr. Bunston, just
3 a question on that last slide, sir, sorry to interrupt
4 but what -- can you explain for the benefit of the
5 Panel members, what you mean by "matching of
6 liabilities and assets"?
7 MR. GLENN BUNSTON: So our strategy
8 has always been to match the dollar amount and
9 duration of our fixed income portfolio to our claims
10 liabilities to the Basic claims' liabilities and that
11 will continue to be our strategy going forward.
12 However, in the past because we had a
13 co-mingled portfolio and we allocated all of our
14 investments to the different lines of business, it did
15 cause some structural mismatches and -- in that the
16 dollar amount of the fixed income portfolio that was
17 allocated to the Basic line of business was slightly
18 smaller than the dollar value of the claims'
19 liabilities and so going forward that will be
20 corrected so that there will be an exact dollar match
21 and the hedge ratio will -- will increase to -- to
22 approximately a hundred percent going forward.
23 MR. STEVE SCARFONE: Thank you. And
24 so the effect of all of that would be, as I understand
25 it, to derisk the portfolio?

1 MR. GLENN BUNSTON: Correct. We
2 should be, and we will be, we expect less impacted by
3 interest rate changes going forward, whether they be
4 increases or decreases.
5 MR. STEVE SCARFONE: Okay, thank you.
6 Sorry, carry on.
7 MR. GLENN BUNSTON: So the impacts of
8 the -- of the Asset Liability Management Study.
9 Overall, there will be reduced risk and less rate
10 volatility to the ratepayers over the long term.
11 The impact on -- on premiums charged to
12 customers in -- in the rating year, in 2019, will be
13 minimal. Approximately a 20 basis point increase in
14 rates as a result of the new investment strategy.
15 And interest rate risk is going to be
16 reduced by segmenting the portfolios for the reasons
17 that I -- that I just mentioned.
18 And finally, in the -- in the retained
19 earnings portfolio, or the RSR, it is a balanced
20 portfolio. And so it -- the goals there are a
21 combination of preservation of capital and risk
22 seeking assets. And so the portfolio -- the 50-50
23 portfolio reflects those goals.
24 So this slide shows the current asset
25 mix. So we have 70 percent allocated to fixed income

1 assets and 30 percent to growth assets being equities,
2 real estate and infrastructure.
3 Under the -- the second table at the
4 bottom shows the -- the asset allocations for the new
5 portfolios. So Basic will be a hundred percent fixed
6 income going forward. RSR or retained earnings will
7 be a balanced portfolio with a 50 percent in fixed
8 income, 50 percent in growth assets and then pension
9 will be 60 percent in growth assets, 40 percent in
10 fixed income.
11 And so that rolls up on a consolidated
12 basis to 84 percent in fixed income and 16 percent in
13 growth assets.
14 Now, the Basic claims portfolio within
15 that, 60 percent will be in -- in provincial bonds, 20
16 percent in corporate bonds and 20 percent in
17 nonmarketable or what we call MUSH funds. There will
18 be no equities or other growth assets. And as I
19 mentioned earlier, the -- the hedge ratio, the amount
20 of interest rate risk that is protected by that
21 portfolio relative to the liabilities will increase
22 from 85 percent to 100 percent.
23 So for the RSR portfolio, it -- it will
24 change from a 70/30 split between bonds and growth
25 assets to a 50-50 split with the -- the amount set out

1 on this -- on this table and, as I mentioned, we are
2 adding exposure to global equities so we'll have about
3 23 percent in total within this portfolio in --
4 invested in global equities.
5 And so we will be adding new asset
6 classes to the portfolio. One (1) of those is private
7 debt and we anticipate investing in investment grade
8 or equivalent to investment grade private debt that is
9 unlisted basically issued by North American issuers.
10 It's less liquid than public debt and as a result,
11 there is a yield premium. We're estimating about 75
12 basis points for investing in private debt.
13 Next we'll add global equities so that
14 will be in investments in equities in developed
15 markets and there is a typo here it says, "and
16 emerging mark -- market equities," it should say, "and
17 no emerging-market equities." So we will not be
18 investing in emerging markets.
19 And then we will also make a small
20 allocation to low volatility global equities. So this
21 is -- these are low equity -- sorry, global equities
22 that the manager will select will have less volatility
23 than the standard global equity securities and the
24 strategy is to -- to try to reduce the overall risk of
25 our equity portfolio.

1 So we considered many asset classes
2 when we did the study, and some of them were rejected
3 for various reasons and so we have a list of them
4 here. So diversified growth funds was considered and
5 ultimately rejected. This is a -- a strategy that
6 allows the manager significant discretion in terms of
7 what asset classes to invest in. They can -- they can
8 go long and short. They can use leverage and it's
9 very similar to a -- to a hedge fund and so we decided
10 that that was not something that our investment
11 committee was interested in making an allocation to.
12 We have invested in private equity in
13 the past, although we haven't made new investments in
14 private equity for many years and so we decided not to
15 invest in private equity going forward.
16 High-yield bonds or these would be
17 below investment grade bonds rated below triple B,
18 decided those were not appropriate for our portfolio.
19 Emerging-market debt, again, decided those were with -
20 - outside of our -- our risk targets.
21 Commercial mortgages, those were not
22 considered also or rejected.
23 Strategies involving leverage were
24 considered briefly and decided not to invest in those.
25 And finally, real return bonds, we

1 consider those, but also rejected those.
2 MR. STEVE SCARFONE: Just before --
3 just before you move on to the next slide, Mr.
4 Bunston, a quick question.
5 Firstly, these rejected asset classes,
6 were those rejected for the Basic claims portfolio,
7 the RSR portfolio or all of the segregated portfolios?
8 MR. GLENN BUNSTON: These asset
9 classes were rejected for all of the portfolios.
10 MR. STEVE SCARFONE: Okay. And the
11 second question, sir, on the last rejected asset class
12 at the bottom, real return bonds, there's been some
13 dispute about whether those -- that asset class should
14 have been included.
15 Just briefly, sir, what is a real
16 return bond and what does it serve to do in an
17 investment portfolio?
18 MR. GLENN BUNSTON: So, real return
19 bonds provide a return and then that return is
20 adjusted for actual inflation. So both the principal
21 payments and the interest payments are adjusted by
22 inflation every six (6) months. And so the net result
23 is you -- the return that you get is protected for --
24 from changes in inflation. So you -- you get a -- the
25 return that you expect to get at the beginning, the

1 real return is unchanged or not impacted by inflation.
2 And they -- they are issued generally by the
3 Government of Canada. There are some provinces that
4 issue them as well. And there are relatively few
5 issuances in Canada.
6 MR. STEVE SCARFONE: Thank you. So is
7 it fair to say that the real return bonds then protect
8 against rising inflation; is that -- or is that making
9 -- simplifying it too much.
10 MR. GLENN BUNSTON: That's basically
11 true. They provide a real return. So the -- the
12 return that you -- when you purchase them, the return
13 that is -- the coupon rate is the rate that you will
14 realize at the end of the investment because it is
15 adjusted for actual inflation.
16 MR. STEVE SCARFONE: Okay, thank you.
17 MR. GLENN BUNSTON: So the next slide
18 sets out the reasons why real return bonds were
19 ultimately not recommended for investment. So, first
20 of all, the real yield on those bonds is very low at -
21 - it was 60 Basis Points in February of 2018 and are -
22 - our Basic liabilities assume a 2 percent inflation
23 rate, and we have reserves to protect us against that
24 level of inflation and real return bonds will really
25 only add value if inflation significantly exceeds 2

1 percent for a sustained period of time.
2 And dollar and duration matching is --
3 is difficult with real return bonds because there are
4 so few available and so it's hard to get the correct
5 term that you would need to -- to provide the correct
6 duration match.
7 And finally, they're linked to Canadian
8 CPI while our Basic liabilities are indexed to other
9 drivers such as Manitoba CPI and the Manitoba
10 industrial average wage.
11 So in terms of our implementation plan,
12 we anticipated taking proximally two (2) years to --
13 to make these significant changes to our portfolio.
14 One (1) of the first things we need to do is -- is
15 make significant revisions and changes to our
16 investment accounting systems so that they can
17 accommodate the -- the new portfolios and so that is -
18 - is underway. And we -- we can't make those changes
19 to our accounting systems until the end of our fiscal
20 year, so that can't happen until March 1st of 2019.
21 And on the investment side, we will --
22 we will and have been reducing our allocation to
23 Government of Canada bonds. It was low to begin with,
24 but the strategy is to invest in -- in provincial
25 bonds. We may have some Government of Canada's just

1 because they provide liquidity to the -- to bond
2 manager.
3 Corporate bonds. We have begun a
4 search for a corporate bond manager. We have a
5 consultant we're working with on that, and it is
6 underway.
7 Our nonmarketable bonds, the plan is to
8 not make new investments in those. There are very few
9 available going forward and so we'll collect the
10 principal and interest payments as they -- as they
11 come in and use those to fund the purchase of the --
12 the new asset classes or the asset classes that are
13 increasing in allocation.
14 Equities, so we also are in the process
15 of searching for a global equity manager and we'll
16 need to reduce our allocation to Canadian and US
17 equities as well.
18 On the real estate side, we have
19 advised our real estate manager, the manager of the
20 pooled fund that we need to make a significant
21 reduction to our investment in real estate.
22 On infrastructure, we need to make a
23 modest reduction there. And so we have identified
24 some investments that -- that we could potentially
25 liquidate or reduce and so we'll begin that in the --

1 in the new fiscal year.
2 And then private debt. We anticipate
3 that search beginning early in 2019, again, with the
4 same consultant that we've selected for the other
5 searches.
6 So we'll increase our allocation to
7 provincial bonds as appropriate within the portfolios.
8 Similarly, corporate bonds we'll increase that
9 allocation once we have the manager selected and --
10 and approved and in place. We anticipate that
11 starting in -- in the first quarter of our next fiscal
12 year.
13 Again, nonmarketable bonds we'll have
14 continued to collect coupon and interest payments and
15 use that to fund our investment in the new asset
16 classes.
17 Equities we'll -- we'll need to
18 completely liquidate our exposure to US equities and
19 we'll either do that at the end of this fiscal year,
20 or the beginning of next fiscal year and we'll make a
21 significant reduction to our Canadian equity
22 portfolio.
23 Real estate, like I said, we have
24 informed our manager that we need to make a reduction
25 and that will be happening in I believe April of 2019.

1 On infrastructure, we'll start working
2 in the new year on making the modest reduction that we
3 need to there.
4 And then private debt, once we have the
5 manager selected and in place, we'll start funding
6 that strategy. We expect that to take probably all of
7 the next fiscal year 2019/'20.
8 So in terms of interest rate
9 forecasting, our -- our best estimate on interest
10 rates relies on a naive interest rate forecast, and
11 that's because it provides a neutral and unbiased
12 forecast. So going forward the yield on the
13 Government of Canada 10 year bond could increase, it
14 could decrease, it could remain flat and the naive
15 forecast, essentially, uses current rates as the
16 forecast going forward.
17 And we've presented evidence to show
18 that -- that it is a better predictor and less biased
19 than the 50-50 forecast or the standard interest rate
20 forecast. Over the short term, which is -- we define
21 as 1 to 1 1/2 years, which is the period that we
22 forecast interest rates for for rate setting purposes.
23 The Bank of Canada overnight rate is -- is not a
24 reliable predictor of the direction and magnitude of
25 movements in the 10 year bond rates, and we've

1 presented a significant amount of historical evidence
2 to -- to support that and to show that over the long
3 term there is a relationship, but over the short term
4 the relationship is certainly not direct and, in fact,
5 the two (2) rates have -- have often moved in opposite
6 directions.
7 So our goal here is -- is to reduce
8 pricing risk and to provide the most accurate forecast
9 of interest rates possible.
10 So in -- inn conclusion, we are going
11 to develop unique investment strategies for each of
12 the new portfolios that will provide a better match
13 and alignment to the purpose and characteristics of
14 the liabilities associated with that portfolio.
15 We expect the volatility of the Basic
16 claims portfolio to be reduced since it will contain
17 only fixed income assets going forward.
18 The impact on -- on rates charged to
19 customers asked is expected to be minimal at 20 basis
20 point increase.
21 And finally, the expected reduction in
22 investment risk will have a positive impact on our
23 required capital.
24 MR. MARK GIESBRECHT: And just before
25 moving on, I want to just clarify one (1) point

1 regarding the impact of the strategy on -- on rates.
2 So we've heard that the impact on this
3 year's application is an increase of about 20 basis
4 points. What we're not factoring in is last year in
5 our application we did have a preliminary step to
6 increase corporate bonds and so that strategy had a
7 reduction in rates of about .7 or .8.
8 And so that's really considered, you
9 know, phase I or an initial step towards our ALM. So
10 the ALM plan substantiated the increase in corporate
11 bonds and so when you factor in that rate decrease
12 last year with this point .2 this year, the net impact
13 going forward to ratepayers is about a .5 percent
14 decrease. So, it actually -- it's a benefit to
15 ratepayers in the long run, but for this year's
16 application it is a .2 increase.
17 MR. STEVE SCARFONE: Thank you, Mr.
18 Giesbrecht and Mr. Bunston. So I think Mr. Johnston
19 is going to present next on the other topics.
20 MR. LUKE JOHNSTON: Thank you. Okay,
21 so moving on to the rate stabilization reserve or
22 MPI's capital targets. Just a quick agenda there,
23 we'll talk about the RSR, the approaches that we use,
24 how MPI compares to the industry, and we'll talk about
25 some of the -- how the new investment portfolio has

1 impacted some of our capital targets and -- and then
2 at the end we'll touch on some new items, capital
3 maintenance provision and the forthcoming capital
4 management plan.
5 So as you all know, MPI has a rate
6 stabilization reserve. We have this definition in
7 place. Basically, which says, you know, if -- if bad
8 scenarios happen, we need a fund to pay for those
9 items so we don't just pass along those costs to
10 ratepayers and ask them to, you know, have a big rate
11 increase or -- or a rebuilding fee.
12 Putting aside that definition, M -- MPI
13 is really no different than any other insurer. We
14 should have capital to manage the risks and volatility
15 in our business and I'm -- when I say that, I don't
16 mean that MPI is the same as every other insurer, so.
17 We -- we all know that Basic is a monopoly so they're
18 -- not all the risk are the same. So in that -- in
19 this case, competition risk is zero, but the majority
20 of other risks that MPI has, for example, in -- in the
21 investment portfolio are no different than -- than any
22 other insurer that buys stocks or bonds.
23 The -- the last point really is that --
24 the point of having the RSR, obviously to withstand
25 those scenarios. But the other big reason is for rate

1 stability. So if we don't maintain that RSR, and we
2 just wait till it collapses and then ask people for
3 money or wait -- let it grow really big and then give
4 rebates, it's -- it hasn't really served its purpose
5 so we'll talk about that today.
6 MR. STEVE SCARFONE: Mr. Johnston,
7 could you just provide a couple examples, if you
8 could, of what type of scenario might draw down the
9 RSR? What -- what are we talking about?
10 MR. LUKE JOHNSTON: Yeah, so there --
11 some of the more obvious scenarios would be a stock
12 market crash, hail is -- is a risk, but for the most
13 part we do by reinsurance coverage to protect
14 ourselves from that. Interest rates have historically
15 been a risk factor. And then other items relate to,
16 you know, if we have bad winters we get more PIPP
17 claims in a year than usual. We could have adverse
18 development on our claim liabilities.
19 What we found through a lot of the
20 modelling is there are a few really big scenarios like
21 a stock market crash would be an example but for the
22 most part in our modelling and in our actual results,
23 it's a combination of things. You know, the stock
24 market goes down a little bit, interest rates go down,
25 you have a bad winter, all of a sudden you've lost a

1 100 plus million dollars, right and -- and we don't
2 make a profit or not -- not by design, anyways.
3 So when you have a billion dollars of
4 premium and several billion of liabilities, you know,
5 some interest rate changes and a bad winter and a few
6 other things can easily hit a 100 plus million like
7 that and that wouldn't even be considered a 1:40 year;
8 that might be like a, you know, 1:20 or something like
9 that so.
10 MR. STEVE SCARFONE: Okay, thank you.
11 MR. LUKE JOHNSTON: Okay, so when we
12 talk about capital targets, what -- like what makes
13 MPI different than -- than other insurers. So,
14 obviously, we talked about the monopolies, that's not
15 a -- that's not a risk and we're -- we're not
16 pretending that -- that it is.
17 But again, pretty much all other risks
18 that we have are applicable to MPI. I keep hearing
19 the word "solvency" get thrown around, especially when
20 -- whenever MPI mentions anything at all about the
21 MCT, the Minimum Capital Test. We -- we understand
22 that. The government is there, but at the same time
23 we're not going to design a program that, you know,
24 that has us fail and ask for government bailouts. We
25 want to set up Basic to be managed like a -- like a

1 way a prudent insurance company would -- would be
2 managed or run.
3 There are risks that I would argue that
4 -- or MPI has that make it a greater risk than a
5 typical insurer. So we -- we don't -- on Basic we
6 don't make a profit. So if we're a little bit off on
7 our ratesetting, we lose money immediately. It's not
8 that, like, we make 10 percent profit, oh, now we only
9 made 8 percent. We are off at all, we're losing
10 money.
11 We do -- there's no other way to say,
12 we have extremely low capital targets relative to
13 anyone. So we'll talk about that.
14 And then the -- our Personal Injury
15 Protection Program is -- is unique. Like SGI Quebec
16 have no faults injury programs, but pretty much every
17 other P&C insurer wouldn't have several billion
18 dollars of long-tail liability sitting on their books.
19 So that -- that's a big risk for us and you can see
20 the steps we've taken on the investment side to try --
21 to try and neutralize that.
22 Just so everybody's familiar with the
23 methodologies that -- that I'm talking about. So
24 there is the Dynamic Capital Adequacy Test which we
25 call DCAT and, really, this is like a -- this is what

1 we -- we use a modified version of this to set the
2 capital targets based on the current Board approved
3 method. Really what this is is a series of scenarios,
4 you call them stress tests on the MPI's base case
5 forecast. And then we, essentially, model these
6 scenarios and say, what would MPI need today in terms
7 of RSR to withstand the scenarios.
8 So that has -- that has been a lot the
9 -- the -- this collaboration we talk about with --
10 with PUB and the other stakeholders, this is what
11 we're talking. How to design those scenarios; how to
12 build the models, et cetera.
13 There is -- there are -- there are
14 definitely a lot of assumptions in these models. So,
15 you know, the actuary, being me, has to, you know,
16 decide on a lot of these assumptions, but management
17 action, how fast to respond to scenarios, what's an
18 appropriate rate increase in response to scenarios are
19 an example of some of -- some of those things.
20 The -- to my knowledge, I'm not aware
21 of anybody that says we use -- we modify the DCAT to
22 determine the capital target but that -- that doesn't
23 mean that there are people that do that.
24 MR. STEVE SCARFONE: Just on -- on
25 that point, Mr. Johnston, what is it about the

1 modified Dynamic Capital Adequacy Test that makes it
2 different than the normal, if I can use that word,
3 Dynamic Capital Adequacy Test.
4 MR. LUKE JOHNSTON: Yeah, the DCAT
5 test would normally just be used to determine if the
6 insurer has satisfactory financial condition and all
7 that means is that, you know, you run the scenarios
8 that we talked about here and basically see if the
9 insurer has enough capital to withstand those adverse
10 scenarios and then the actuary would say yes, based on
11 our modelling, you know, they meet the regular --
12 regulator's minimum capital requirements and they can,
13 you know, withstand all these adverse scenarios. That
14 would be the -- the typical use of the DCAT.
15 We've modified it here as a way to --
16 it's definitely a measure of MPI's risks so we've used
17 that modelling and -- as a way to create RSR targets
18 for the Corporation.
19 MR. STEVE SCARFONE: No, I understand
20 that, sir, but how has it been modified? Input
21 factors, if any, are different.
22 MR. LUKE JOHNSTON: The -- so one (1)
23 of the collaborative pieces we did was this iteration
24 exercise. The one (1) kind of modification that MPI
25 struggles with is -- is -- is really this last step

1 where you see transfers from the other lines of
2 business to kind of -- as part of the modelling and --
3 and MPI just doesn't agree with that piece at all. And
4 I'll talk a little bit about it more later.
5 MR. STEVE SCARFONE: Okay. Thank you
6 for that, sorry.
7 MR. LUKE JOHNSTON: The other
8 methodology -- not the -- there may be others, but the
9 two (2) main ones that we talk about here is the
10 Minimum Capital Test and this really is a complete --
11 completely standardized test of capital adequacy. It
12 appears that every insurer in Canada, P&C uses this
13 test and their capital targets are based on Minimum
14 Capital Test targets.
15 The -- the test really is completely
16 objective. We -- as long as we have a balance sheet,
17 there's a little other work behind the scenes, but for
18 the most part, it's is not influenced by assumptions
19 made by myself, or anyone, really. And yeah, it
20 measures the -- the risk for all insurers, public or
21 private. And I guess the other thing that it does
22 really well is it gives the -- everyone a -- a way to
23 compare companies.
24 So if -- from -- if I go to our Board
25 and say, you know, we -- we came out of the PUB

1 hearings with A $180 million RSR target, they might
2 say, Well, how does that compare to SGI? That -- for
3 me to tell them SGI has a $200 million target would be
4 meaningless. The MCT will give you that standardized
5 ratio where I can say, you know, We're 30 percent.
6 SGI is 80 percent. Like, that -- and you can compare
7 the different companies.
8 Okay. So this table here is really
9 showing the impact of the proposed investment
10 portfolios on the targets. So maybe we'll start with
11 the hundred percent MCT tests. Our -- by modelling
12 out the impact of the new portfolios, the minimum
13 capital test is saying that the capital required at a
14 hundred percent MCT has fallen from 438 million to 358
15 million. So completely objective, independent test of
16 MPI. I can go to our Board and say, If we do this,
17 you know, MCT is indicating that the 100 percent MCT
18 target would essentially drop by about twenty (20)
19 plus -- you know, about 25 percent.
20 Our DCAT is also supposed to measure
21 risk. So we would expect to see a similar type of
22 decline in our own modelling, and have you seen -- as
23 you see here, we -- we have -- so the dollars, using
24 the PUB methodology, for lower target -- the target
25 fall from one eighty (180) to one twenty (120). And

1 you'll notice that the MC -- the equivalent MCT ratio
2 is about the same.
3 So it -- the good thing that we found
4 from this result is that our DCAT, while it's not a
5 hundred percent MCT, it's tracking really well with
6 MCT scores, which tells us that, okay, you know, we're
7 -- we're probably doing, you know, things right, here.
8 I just wanted to make that clear that MPI has really
9 reduced its -- its dollar -- absolute dollar ask
10 considerably in this application, and that is -- is
11 through things like the -- the ALM study.
12 Okay. So this is a high-level
13 comparison of our peers in terms of capital targets.
14 Everyone is aware that MPI has come here in multiple
15 hearings in the past and asked or suggested that a
16 hundred percent MCT might be a reasonable target for
17 MPI. We -- in order to compare to other insurers, we
18 need to put the targets on a MCT basis. Otherwise,
19 it's very difficult for me to show that in this
20 comparison. So 27 percent is -- is MPI's current
21 calculated minimum capital target in this application,
22 the -- based on the -- the last PUB order.
23 So just as the slide says, it is a
24 unique approach, and I think everybody knows that.
25 This is a -- a made -- made-in-Manitoba solution for

1 the most part, and the DCAT itself has been modified
2 to -- in some respects.
3 SGI, ICBC, SAAQ, the Quebec public
4 insurer, they all have some form -- they -- they all
5 latch onto a hundred percent MCT in -- in some form,
6 whether they target and move to that, or that's their
7 stated minimum. But they'll -- they'll all use that.
8 For -- for private insurer, the
9 regulatory target would be a minimum 150 percent.
10 Most would operate well above that. The -- the latest
11 average I saw was about 220, 225 percent.
12 MR. MARK GIESBRECHT: Yeah. And just
13 to add to private industry, so I -- I come from
14 private industry, where I work with a life insurance
15 company and a -- a P&C insurer. And so on this slide,
16 you see the -- the 150 percent, and that's the
17 supervisory minimum. And in the private market, you
18 would then, through your DCAT modelling and your
19 stress testing, determine what do you need in excess
20 of that to ensure you never come down to that range?
21 And so just by way of example of the
22 companies that I worked for in the past, we had
23 targets of 230 and 300 percent. Just to give you an
24 example of what -- and as Luke mentioned, currently
25 averaging the P&C market is about 225 percent. So it

1 is definitely above that -- that one fifty (150).
2 That -- that's a target that a -- a
3 private insurer would never want to approach, because
4 that means that the regulator OFSI would be all over
5 them in terms of a management plan and wanting to
6 stand what are you doing to get away from this level,
7 because it's, in their eyes, far too low.
8 MR. LUKE JOHNSTON: And -- and just to
9 be clear, MPI has never come here and said we need
10 private sector capital targets at 150 percent MCT. So
11 we recognize the monopoly position, but again, if you
12 can take my perspective, going to our Board or
13 government and showing them the slide, and they would
14 -- would say, Well, what -- what are you guys doing?
15 Like, we want, you know, we told you to run, you know,
16 this like an insurance company. It looks -- it
17 doesn't look good. Right?
18 So we're not asking for 150 percent
19 MCT, but an appropriate capital target for -- for MPI,
20 and -- and again, for some of the comments I hear from
21 Intervenors, like, we're taking people's money, or --
22 like -- or -- things like that, I -- I don't see any
23 base in -- in those -- basis in those arguments.
24 MR. STEVE SCARFONE: Mr. Johnston,
25 just on that backslide, are there any differences that

1 you're aware of between MPIC and the other public
2 insurers on the slide that would suggest they require
3 a higher MCT?
4 MR. LUKE JOHNSTON: I won't -- I won't
5 pretend to know the -- the regulatory environment, or
6 the government environment in those jurisdictions.
7 MPI, from a coverage and -- and balance sheet basis is
8 very similar to SGI, and our PIPP program would be
9 very similar to the SAAQ as well. There are different
10 rules in those jurisdictions about, you know, how the
11 regulatory environment to -- who sets the targets and
12 things like that, but I don't see why we would differ
13 considerably in terms of our targets. At every --
14 every area has different reasons for what they've
15 selected.
16 So this slide -- it says, "Satisfactory
17 condition cannot assume capital transfers." And I'll
18 explain that. So we want a Basic capital target to be
19 an indicator of the risk of Basic insurance. So if
20 you think back to the earlier slide where we showed
21 how the risk of Basic fell when we implemented the
22 investment portfolios, that's a really good example of
23 showing how we've, you know, to our Board and PUB --
24 and the PUB how we've lowered risk.
25 We don't -- when we talk about the

1 modified DCAT, assuming transfers from other lines of
2 business, we don't want to show or -- or blur the
3 assessment of Basic by capital transfers. We wanted
4 to -- the -- the PUB and others to see this is the
5 risk of Basic, you know, on its own. That's not to
6 say that we -- we know we've transferred capital, but
7 we -- we just want to have that independent measure.
8 So to the -- to Mr. Chair's question
9 yesterday about the -- about the capital transfers
10 from Extension, obviously, we -- it isn't a -- a
11 process that we want to continue to do, but to your
12 point, you had -- we had $200 million to transfer, and
13 so what do you do? Why do we even have that much?
14 And I -- I get what you're saying, but I'll get into
15 the Capital Management Plan.
16 But that's where we really -- we would
17 like to lock down our -- our capital targets for all
18 lines of business, our profitability and rate-setting
19 methodologies for all lines of business. And if we
20 have confidence and certainty in that, I think we can
21 go to government and PUB and say, Look, these are the
22 rules that -- that we'd like to follow for the
23 different lines, you know, under these conditions, you
24 know, Extension transfers may occur, and things like
25 that. We don't have all the answers to those yet, but

1 that would be, like, an optimal scenario, from our
2 perspective.
3 And -- and when it comes to Extension,
4 I know this isn't the place for it, but that's not --
5 like -- like, the -- the probability targets of the --
6 government wants, or -- or things like that is -- I'm
7 told, like, that's -- this is what we're doing. Basic
8 -- the mandate is clear. There's no profit. Like,
9 there's a -- there's a clear mandate. So I can't
10 really tell you what the decisions will out of that
11 process, but step 1 would be to really lock down all
12 the targets and -- and methodologies.
13 Okay. So this looks a lot like an
14 earlier slide you saw. The PUB targets based on the
15 last order are calculated and shown in -- in the
16 bottom two (2) rows. So you've seen the -- the
17 expectation of the investment portfolio changing has
18 dropped those targets considerably. So instead of one
19 eighty (180) to three twenty five (325), it's now 120
20 million to 251 million.
21 MPI's only objection to the -- the
22 current Board Order methodology is what the -- this
23 assumption of how that iterative methodology is
24 calculated, basically assuming transfers of money from
25 Extension. That's the only difference in the -- the

1 way we've calculated it. So our applied-for range in
2 this application is 143 million to 305 million.
3 We would prefer to state that as an MCT
4 target of thirty-four (34) to eighty-five (85). And
5 one (1) of the -- one (1) of the big reasons that we
6 like to do that is we can update everybody on that
7 target, like, at any time, because we can calculate an
8 MCT ratio in any month, and it's a little harder to
9 rerun DCATs and -- and things like that on the fly, so
10 the -- the MCT targets are more -- more dynamic in
11 that way.
12 So you heard Mr. Graham talk a lot
13 about the direction he's received to reduce
14 volatility, not just for Basic, but for all MPI
15 operations or lines of business. So that -- that
16 volatility is really in -- in absolute terms. So --
17 so we -- we showed earlier that, you know, our risk of
18 -- on the investment portfolio drops in -- both in
19 dollars and percentage terms.
20 So some examples of what MPI has done
21 recently to do -- to -- to control volatility. So the
22 investment portfolios have been talked about. We --
23 we worked with the PUB on accepted actual practice.
24 So that was a -- a big chunk of the interest rate risk
25 issue that we were dealing with.

1 You've heard in recent years about some
2 of the issues around projects, so improving the value
3 management process was a big -- a big thing that had
4 to happen. The -- the new Board and -- and our new
5 CEO definitely had a -- a much heightened importance
6 on risk management.
7 So my title has changed. I am now the
8 VP of product and risk management. So risk management
9 is in the executive office. We have -- we're setting
10 up an enterprise risk management function, which we
11 really should have. A company this size, to not have
12 that is -- is not a good thing. Full accountability
13 for reserving, it's -- now reports to me as well. So
14 you see the fifth bullet there, and it talks about
15 centralized PIPP reserving, but the Board obviously
16 recognizes that the biggest risk we have is the --
17 basically, the $2 billion of claim liabilities and the
18 investments backing them, so they've been taking steps
19 to improve that.
20 And then the last piece, which we're
21 not really showing anything new in our forecast this
22 year, is that we're going to investigate the
23 reinsurance options more thoroughly. So we -- we
24 really just have protection for big hailstorms right
25 now. We're going to look at other things. That could

1 include, as Mr. Graham talked about, aggregate on
2 coverage, but there are also other products. For
3 example, there is adverse development protection on
4 liabilities. There is other kind of net income
5 smoothing type of products that we've talked about,
6 but they all have cost-benefit, so we have to
7 investigate those.
8 One (1) of the struggles that -- that I
9 have, especially when talking to our -- some of, like,
10 our Board members, is that the Board believes that
11 we're doing all these things to reduce risk, and so
12 the -- use investment portfolio as an example, we do
13 all those things, and then the targets -- well, then I
14 tell them, Well, we lowered all the targets. So they
15 -- it kind of feels like you've counteracted, you
16 know. So I -- I went in a -- a year or so ago. I
17 said, Well, we have a minimum target of 200 million.
18 And -- and then they say, Why? And I
19 tell them all the things that are -- that are risky to
20 MPI. They'd approve a bunch of things, like the
21 investment portfolio and other risk reduction efforts,
22 and obviously expect that that's going to reduce risk
23 MPI, and it does. But then I come back and say, Well,
24 I lowered your target to a hundred and twenty (120).
25 So they kind of feel like it -- it nullifies a lot of

1 that benefit. That's kind of how it works, but it --
2 it feels that way to them. So just -- just so you
3 understand that piece. But, yeah, the point being
4 that going forward, we -- we really need to work with
5 PUB to -- to achieve this kind of low risk appetite
6 that the government has.
7 Okay. Moving on to the Capital
8 Maintenance Provision. So the -- the CMP is really an
9 additional amount that we're asking to apply to the
10 annual rate indication in order to maintain capital in
11 a given policy year. So another way to think about
12 this is we calculate -- we've always talked about
13 calculating breakeven rates here, and -- and the one
14 (1) time we looked at net income and said, How do we
15 keep that at zero? And then we moved to AAP, the
16 actuarial -- accepted actuarial practice rate making,
17 said, Let's keep that net zero.
18 What came up last year is this idea
19 that we can't have our capital deteriorate by design
20 in the rate-setting process. So what we're saying is,
21 Well, we agree, and that we think the most fair way to
22 do this is to ask ratepayers for the incremental cost
23 of maintaining capital as part of the rate-setting
24 methodology. And we call that the net CMP.
25 So to -- a really simple example is

1 shown below. The bottom two (2) rows show you MPI's
2 forecast if we did not include the CMP in the rate
3 ask. And so if -- if you don't make any net income,
4 you can see the total equity balance basically stays
5 the same the whole time, however, the Company
6 continues to grow, so the MCT score says, you know,
7 you -- relative to the size of business, your -- your
8 capitalization is falling, so from seventy (70)
9 falling to fifty-two (52).
10 Our proposal is to ensure that the pol
11 -- the policyholder comes in with a 70 percent MCT,
12 they leave with a 70 percent MCT, and -- and they pay
13 -- a -- a fair way to pay their kind of contribution.
14 The alternative is to use the bottom set of rows, let
15 the capital decline until it reach -- reaches kind of
16 dire straits, and then ask that group of policyholders
17 for a bunch of money, or ask them to rebuild it. And
18 if I was that policyholder, I would say, Well, that
19 makes no sense. Why didn't we just, you know, build
20 and maintain all along, right? So that's -- that's
21 the concept that we're -- we're proposing.
22 So I've already talked about the first
23 bullet point. Net -- the -- the -- this Capital
24 Maintenance Provision is really step 1 of -- of a
25 capital management plan. So this is just -- just the

1 maintain part. Whether we're at 30 percent MCT, or 80
2 percent MCT, all we ask ratepayers for is to keep it
3 the same, not build a release in -- in the -- in the
4 Capital Maintenance Provision.
5 And yeah, next slide, please. Yeah.
6 MR. MARK GIESBRECHT: I just want to
7 add one (1) comment. I -- I think it could be useful
8 to add an analogy. The way I look at it is our -- our
9 current environment is like we're -- we're living
10 paycheck to paycheck, and we're -- we're then
11 vulnerable if we have a big expense come up. And
12 that's kind of like our current level of capital.
13 If we have no means to maintain
14 capital, we're vulnerable to those adverse events,
15 that -- that bad storm, that bad combination of market
16 factors, the stock market, like we've talked about.
17 And so it -- it really is important, that way that we,
18 you know, we take away that vulnerability by having a
19 means to protect capital.
20 MR. LUKE JOHNSTON: Okay. So -- so
21 the Capital Management Plan is -- is not being
22 proposed by MPI in this application. We don't believe
23 that the CMP -- the maintenance provision and the
24 Capital Management Plan have to come together. The --
25 the Capital Maintenance Provision can stand on its

1 own.

2 But per some of my earlier comments
3 about the other lines of business, in order to have a
4 -- a capital management plan, we -- we would need to
5 have targets for all the lines of business and really
6 understand the rate-making rules and triggers on those
7 lines.

8 So again, if you're -- so Mr. Graham
9 mentioned, you know, maybe one (1) consideration is
10 that Extension rates could go down as a -- as a -- a
11 possibility. Well, I need to know that, and then need
12 to know the rules of, you know, when -- when can you
13 transfer, and when -- when you can't. Otherwise, you
14 can't really make a plan.

15 The -- the Capital Management Plan --
16 like, SGI came and talked about their plan. Really,
17 we're talking about making rules about how you build
18 and release, and always move towards your target. So
19 don't wait until it's in, again, dire straits. Let's
20 con -- sis -- like, so, SGI's a hundred percent.
21 Let's work with the PUB and other stakeholders to
22 figure out how fast you should move to that -- to that
23 target.

24 So there is some issues in ICBC -- ICBC
25 right now, where they -- they have a capital

1 management plan. It doesn't seem like the -- they
2 want to follow the rules, like, right? So we -- we
3 want to -- because it may be the -- the impact is too
4 large. So we would want to work with the Board to
5 come with a plan that we think we'd actually follow.
6 So -- so DCAT, for example, assumes we would never
7 charge people more than 2 percent for a rebuilding fee
8 in one (1) -- in one (1) year. So why make a capital
9 management plan that assumes you can just ask people
10 for a 10 percent rate increase? Like, that's not
11 really meeting the purpose of the -- the RSR.
12 Okay. Yeah. And I think I -- I talked
13 about -- about all of these items. Maybe just to
14 touch on the unbiased forecasting line, when we talked
15 about interest rates earlier, and I talked about this
16 a little bit yesterday. We have a current interest
17 rate right now in our hand. It can go up, and it can
18 go down. Our issue -- when -- when we say something's
19 biased, we are forecasting interest rates to go up,
20 and if they don't, there's only one (1) scenario for
21 us, and it's loss.
22 If -- if we use the current naive
23 interest rate, RSR could take a -- you know, we -- we
24 could get an unfavourable move. We could get a
25 favourable move. RSR has a provision for that.

1 That's like any other forecast, but on the interest
2 rate one, we're just saying, Let's not take the high
3 number, where really, the expectation is you either
4 get it, or you -- or you lose. It doesn't -- it's not
5 really the 50/50, like, probability that we look for
6 in most of our forecasts. So that's -- that's what we
7 mean when we say unbiased forecasting.
8 Okay. So in conclusion, so Mr.
9 Bunston's talked about de-risking. So we're doing
10 that through our investment portfolios, but we're
11 definitely looking in other ways to do that on claims,
12 and -- and projects, and things like that.
13 The DCAT targets -- I've talked about
14 MCT today. MPI has not applied for a hundred percent
15 MCT in this application, but we do want risk-based
16 targets, and we'd like them latched onto MCT scores so
17 we can compare and -- and dynamically use that
18 information.
19 And then lastly, the Capital
20 Maintenance Provision would be step 1 of what we think
21 is a -- a fair break-even rate-making methodology, and
22 then -- yeah, step 1 of the Capital Management Plan.
23 MR. STEVE SCARFONE: Thank you, Mr.
24 Johnston. I know we're close, if not already there at
25 our morning break. I just have a couple follow-up

1 questions, Mr. Chair, to the panel members on -- on
2 the presentation that we just heard.
3 So gentlemen, I'm going to kind of put
4 you on the spot here a little bit, because as I
5 understand it, the -- the new Basic claims portfolio
6 has been the de-risked. Is that right?
7 MR. GLENN BUNSTON: Yes, that's
8 correct. And as I mentioned, it's only fixed income
9 going forward in that portfolio.
10 MR. STEVE SCARFONE: Yes, and so in
11 the RSR -- the new RSR portfol -- portfolio, as
12 compared against to -- the Basic claims portfolio has
13 more risk -- risky investments. Is that also right?
14 Is that accurate?
15 MR. GLENN BUNSTON: Yes, it's a
16 balanced portfolio. So half of that portfolio is
17 invested in -- or will be invested in growth assets.
18 MR. STEVE SCARFONE: So I'm trying to
19 reconcile how, under the new investment strategy, the
20 rate indication would go up by .2 percent, but it also
21 has the effect of lowering the capital requirements
22 under the Rate Stabilization Reserve.
23 MR. LUKE JOHNSTON: It's a -- so if --
24 if you lowered risk on the investment side, generally
25 you expect a -- slightly less return. So in this

1 case, Mr. Graham talked yesterday about taking --
2 that's a relatively small hit on the return for a very
3 substantial risk reduction, which I -- I believe was
4 about 40 to 45 percent. So that's a trade-off we were
5 quite willing to make.
6 And then again, as Mr. Giesbrecht
7 mentioned this morning, that -- that increase in rate
8 is relative to kind of that midterm strategy where we
9 talked about buying 18 percent corporate bonds.
10 Ignoring that strategy and going back a couple years
11 ago, this new approach actually would have lowered the
12 rate indication by about fifty (50) basis points
13 because it does invest in -- more in corporate bonds
14 and -- and other types of bonds that have -- that have
15 higher yields.
16 MR. STEVE SCARFONE: Okay. Thank you.
17 And -- and then one (1) other question. Yesterday in
18 my opening statement, I had indicated that there would
19 be an explanation for the Board on how capital can
20 deplete without a Capital Maintenance Provision. And
21 -- and the reason that I -- I said that is because I
22 don't understand -- there's $211 million in the Rate
23 Stabilization Reserve, and presumably, that money is
24 being invested. There would be an increase in the
25 amount.

1 How is it that the reserve would
2 deplete if properly invested?
3 MR. LUKE JOHNSTON: Okay. So there's
4 a -- there's a few pieces to this, I guess. So let's
5 just say we -- we're starting with $200 million in the
6 Rate Stabilization Reserve. One (1) of the things we
7 talked about last year and again this year, I guess,
8 is the investment income earned on the RSR, and what
9 to do with it.
10 So in -- in the absence of any of the
11 capital maintenance discussion, the suggestion was we
12 should use the lower rates. So that's -- that is a --
13 an option, but obviously, if you do that, the 200
14 million stays exactly the same, because its only real
15 source of growth besides good luck was that investment
16 income, because we don't make a profit.
17 So in a growing business, which we
18 still are, we would have growing PIPP liabilities, or
19 other assets would grow. All else equal, there's
20 bigger risk -- there's greater risk of a loss on those
21 items when they're, you know, bigger in size, so our
22 MCT ratio would fall.
23 If we had really good luck and
24 everything worked out perfectly, the RSR would just
25 stay at 200 million forever, but the business would be

1 going like this, and relative to the size of business,
2 it wouldn't be as adequate as it was prior to that.
3 MR. STEVE SCARFONE: This is -- so is
4 it fair to say that the liabilities, then, that the
5 Corporation has would outpace the growth in the RSR?
6 That's the -- is that too -- again, is that too simple
7 an explanation?
8 MR. LUKE JOHNSTON: No, we are -- no,
9 it's not. The -- the -- our -- our liabilities are
10 continuing to grow. We -- we do expect to plateau at
11 some point. The -- the reason our claim liabilities
12 keep growing is because of the PIPP program.
13 So we're going to reach a stage where -
14 - so we -- we've had PIPP since 1994, so we're twenty
15 (20) plus years into the program. Right now, we're
16 adding between fifty (50) and a hundred (100) lifetime
17 claimants every year to that program, and -- and those
18 can cost a couple million dollars each, some -- and --
19 and -- or -- for the big ones.
20 At some point, there's going to be more
21 than 50 to 100 million people dying from the existing
22 population, that -- more than we're adding. At that
23 point, it'll stop growing, but right now, the add is
24 greater than what's falling off.
25 So if we could show you the whole

1 history of PIPP you'd see, you know, a hundred million
2 dollars just growing, growing, growing, growing, but
3 the rate of growth is slowing, and it -- it should --
4 it should plateau soon. At that point, we wouldn't
5 expect liabilities to grow much anymore, and it is
6 quite possible that as I said men -- yesterday, these
7 net Capital Maintenance Provisions or build and
8 release is the -- there's no reason they have to be
9 positive all the time. They could -- they could
10 definitely turn into a -- a negative, or a -- or a
11 rate decrease.
12 MR. STEVE SCARFONE: Thank you, Mr.
13 Johnston. So Mr. Chairperson, those are my questions
14 for the panel members.
15 THE CHAIRPERSON: Okay. We will break
16 at 10:30, then I assume we will be dealing with Mercer
17 10:30?
18 MR. STEVE SCARFONE: That's correct.
19 THE CHAIRPERSON: Okay. We'll break
20 till 10:30. Thank you.
21
22 --- Upon recessing at 10:13 a.m.
23 --- Upon resuming at 10:35 a.m.
24
25 THE CHAIRPERSON: Mr. Scarfone...?

1 MR. STEVE SCARFONE: Thank you, Mr.
2 Chairperson.
3
4 CONTINUED BY MR. STEVE SCARFONE:
5 MR. STEVE SCARFONE: We're ready to
6 move to the next witness which is, of course, Dave
7 Makarchuk. He's here from Mercer Canada.
8 Mr. Makarchuk, we have already sworn
9 you in so I have a few questions just to ask of you
10 before we begin. We have up on the screen MPIC
11 Exhibit Number 5 which is Mr. Makarchuk's curriculum
12 vitae.
13 Mr. Makarchuk, sir, can you please
14 briefly describe your background in terms of both
15 education and work experience for the -- for the
16 Board.
17 MR. DAVID MAKARCHUK: Sure and good
18 morning, everyone. I'll chronologically follow the --
19 the CV that's on the screen. My foundation is a
20 Bachelor of Commerce, as well as a Bachelor of Science
21 in actuarial science, at the University of Calgary in
22 1992. My professional designations are a Fellow of
23 Society of Actuaries, Fellow of the Canadian Institute
24 of Actuaries and a Chartered Financial Analyst
25 Charterholder in 2008.

1 I should go from the bottom in terms of
2 this CV because it's kind of a bit of a build. I
3 actually began my career on the insurance side working
4 for Crown Life Insurance in Regina, working in both
5 the -- the pension asset accumulation, as well as the
6 corporate actuarial dysfunction and so, you know, I
7 have some familiarity with solvency testing. It's
8 interesting to see how it's evolved and its
9 application of the property-casualty side.
10 Some of my exams as a training actuary
11 were certainly -- touched on P&C topics as well.
12 Moved to -- returned to what was mostly home Calgary
13 with Watson Wyatt as a pension consultant. The next
14 six (6) years after my Watson Wyatt time was with
15 Mercer as a pension actuary, assigning actuary. I
16 transitioned -- if we can go back upward, please,
17 thank you to investment consulting in 2006. Began my
18 CFA Charterholder examinations then. My primary area
19 of consulting now is on the investment consulting side
20 advising clients really across Canada, mostly, funds
21 of a billion dollars and up, with regards to strategy
22 decisions, manager structure decisions, manager
23 selection and things like that.
24 So, with regard to asset liability
25 studies, which is the purpose of today I've probably

1 worked on dozens if perhaps maybe a 100 over my
2 career. Many for insurance agent -- or organizations
3 like this, many for pension plans, some other
4 organizations as well.
5 MR. STEVE SCARFONE: Thank you, Mr.
6 Makarchuk. So I see there that you were with Mercer
7 for a number of years and then left the company, is
8 that correct, to work as a consultant?
9 MR. DAVID MAKARCHUK: No, it was
10 continuous from 1999 to today, different roles in
11 different cities. There was a two-year period
12 probably the date at which you were at the CV that I
13 was based primarily in Toronto. My current primary
14 area of work -- or location of work is in Calgary that
15 was only a month or two (2) ago that we made that
16 transition so. But practically speaking, I work
17 across Canada.
18 MR. STEVE SCARFONE: Yes, and you've
19 been with Mercer then since 1999, correct?
20 MR. DAVID MAKARCHUK: Correct.
21 MR. STEVE SCARFONE: And what's your
22 title currently, sir, with Mercer if you didn't
23 already say?
24 MR. DAVID MAKARCHUK: So -- yes, so
25 not on this piece. So my primary title is the leader

1 of our wealth business in Western Canada, so Vancouver
2 through -- through or BC through Manitoba. Our wealth
3 business includes the actuarial services that we
4 provide to clients, as well as the investment services
5 that we provide to clients as well.
6 MR. STEVE SCARFONE: Thank you. And
7 so, Mr. Chair and Panel members, as you're aware Mr.
8 Makarchuk has been qualified already as an expert to
9 give opinion evidence on two (2) areas, one (1) of
10 which is institutional investment planning, which
11 expect speaks for itself, but the second area that
12 you're allowed, sir, to give evidence opinion evidence
13 on is in the area of asset and liability matching.
14 Just before you begin your
15 presentation, can you explain for us laypeople what
16 that means.
17 MR. DAVID MAKARCHUK: Sure. I think
18 that while some investors still have the luxury today
19 of investing without regard to a particular
20 obligation, most institutional investors have an
21 obligation they're looking to -- to discharge or meet
22 at some point in the future when we talk about an
23 asset liability study or asset liability modelling or
24 matching, essentially, what we're doing is considering
25 the nature of the liabilities or the obligations,

1 modelling those out in an appropriate way and then
2 looking at different asset classes, the -- the -- the
3 -- how those assets we expect to behave in the future,
4 how we expect the liabilities to behave in the future
5 and the relative trade-offs between different things.
6 And so, often times those are insurance
7 assets, sometimes they're pension assets. You know,
8 individuals could do them for personal financial
9 planning as well. So there's a broad application that
10 one (1) could do asset liability studies. The study
11 that we did for MPI is -- is one (1) that's typically
12 -- one (1) of the many kinds that we do within Mercers
13 group.
14 MR. STEVE SCARFONE: Okay, thank you.
15 And then just one (1) further question or a couple
16 questions about your qualifications as -- as an
17 expert, Mr. Makarchuk, you understand that your role
18 in this proceeding is -- is not to advocate for MPIC
19 but to assist the Board in understanding the study
20 that you're about to present?
21 MR. DAVID MAKARCHUK: That's my
22 understanding, yes.
23 MR. STEVE SCARFONE: And so there's no
24 further questions, Mr. Makarchuk. You're going to
25 present on the asset liability study that your firm

1 was engaged to conduct for MPIC.
2 Do you adopt this particular
3 presentation, Mr. Makarchuk, as part of your direct
4 evidence this morning?
5 MR. DAVID MAKARCHUK: I do.
6 MR. STEVE SCARFONE: Okay. Very good
7 then if you are ready to proceed.
8 MR. DAVID MAKARCHUK: Sure. So this
9 is just a short overview of the work that we've done
10 at the request of MPI over the last twelve-ish (12)
11 months or so. I'm just going to quickly summarize the
12 engagement that we agreed to, the members of my Mercer
13 team that help me in this regard.
14 Some of our key milestones along the
15 ways, talk about the conclusion -- or how the
16 conclusions were ultimately reached, what Mercer's
17 role was, what MPI management and staffs' role was,
18 what the committee and the Board as well. As well
19 just a bit of an update on our current perspective.
20 Markets have moved somewhat over the last twelve (12)
21 months. We've certainly have had some good questions
22 as part of the dialogue in 2018. So just give an
23 update as to what our perspective is today materially
24 twelve (12) months after we began the project.
25 This is a summary of the engagement

1 with MPI. We received an RFP on September 12th. It
2 was clearly indicated that time was of the essence in
3 the RFP and that -- that MPI was motivated to conduct
4 this relatively quickly.
5 We had a number of questions which MPI
6 responded to promptly. We responded to the RFP as
7 scheduled. And by the end of September MPI notified
8 that we were the successful vendor.
9 We moved quickly to engagement
10 documentation because MPI indicated a motivation to --
11 to move forward with this relatively quickly. There
12 was a lot of work on the MPI side; a lot of work for
13 myself and my team as well but materially completed
14 the project as scheduled and throughout the balance of
15 2018, we have supported MPI, both with regard to the
16 General Rate Application, as well as the following
17 Information Requests that -- that resulted.
18 This is our overall team as it was
19 presented in our response to Request For Proposal. My
20 technical role is as an executive sponsor -- technical
21 -- that was the -- the labelled role. My role expands
22 to peer review, presentation at the investment
23 committee level, as well as participation in all of
24 the -- the management meetings that occurred, as well
25 as authoring much of the response to the Intervenor

1 requests, as well as drafting a number of the
2 different reports.
3 Angelo DiNoto is a senior consultant at
4 Mercer as well, probably 25 plus years experience. He
5 was the overall project manager and the day-to-day
6 contact for MPI management throughout the project.
7 Pawel Piesowicz was our senior and
8 primary modelling specialist. So, essentially, the --
9 the grinder of the numbers. Whenever Angelo or myself
10 requested them, he had direct interaction with MPI
11 staff on certain things as well.
12 Mariusz Wielocha, was the other of the
13 -- the -- the modellers as well.
14 If there were certain questions that
15 were pension related or pension specific Jared Mickall
16 who is based here in Winnipeg advised and supported
17 our team on the pension specific things.
18 And there were specific questions that
19 were more fixed income oriented and so Samatha Cleyn
20 was our specialist in that regard.
21 So over all, four (4) of us are
22 actuaries by background, two (2) of us are CFA
23 charterholders. All of us had institutional insurance
24 experience prior to this engagement.
25 This page is just a -- a brief summary

1 of the different steps that -- that occurred over the
2 project and, you know, the -- as soon as we were
3 appointed, data sharing happened fairly quickly,
4 project planning as well. There was weekly cant
5 (phonetic) charts and updates as such.
6 It is important in any asset liability
7 study to -- to establish discussion and dialogue in
8 terms of what are our overall objectives. It was
9 clear at the outset that there was some things that
10 MPI was looking to achieve. It was clear at the
11 outset that there was definitely some topics that they
12 were seeking and looking for education before they
13 actually made a decision. And so I think we learned
14 that in step 1.
15 Step 2 was our first meeting, our first
16 in-person meeting here in Winnipeg to discuss the
17 objectives, the assumptions, the risk measures and
18 risk philosophies. That was a great opportunity to
19 educate MPI, share some of our expert perspective,
20 also get some of their perspective on what they want
21 to achieve, why they were doing the asset liability
22 study, kind of what our success measures otherwise
23 might look like.
24 October 30th, we had done our first
25 review of some the efficient frontier analysis. There

1 was a first draft of phase -- of the phase I report;
2 that was a -- a long meeting, close to full day as
3 well just in terms of education, hearing MPI's
4 perspective, starting to shape directionally which
5 asset classes would be of interest and understanding,
6 I think by then, you know, the commitment that
7 segregation assets was something they wanted to work
8 toward.
9 And that's where the step 4, you know,
10 extending our analysis to the other business lines,
11 you know, from a legacy perspective assets were not
12 segregated. When we took on the asset liability study
13 it was not clear that assets would be or would not be
14 segregated and so midway through the project that
15 decision was directionally made by -- by management
16 subject, of course, to confirmation by the investment
17 committee and the board.
18 And so there's a lot of modelling that
19 happened through the month of November as well, back
20 and forth between ourselves and MPI staff. Our major
21 investing committee meeting was on November 28th and
22 so both Angelo and I were there in person and we'll
23 show you some slides from -- from that presentation
24 today. That was, you know, very important just in
25 terms of confirming at the -- at the oversight level

1 that the investment committee and the board were
2 directionally in favour of the management
3 recommendations that were otherwise coming before
4 them.
5 Finalizing and documenting everything
6 in the phases 1 to 3 reports. Certainly they started
7 drafting in -- in October. They were finalized all by
8 January. We supported MPI in terms of making the
9 necessary changes to investment policies, statements
10 and that was step 7.
11 And throughout 2018, we've responded to
12 the follow-on queries and the technical conference
13 earlier in the spring, as well as the GRA support, as
14 well as today.
15 I wanted to highlight kind of how
16 conclusions were reached and some of the challenges
17 that similar groups have sometimes in terms of making
18 investment decisions. And so the slide top right is a
19 slide that we used often with all of our investors who
20 are making strategic decisions and it's challenging
21 because not every human being, not every investor
22 believes the same thing, invests the same way, ends up
23 in the same result.
24 But based on our analysis and research
25 and -- and in thought process after reviewing the

1 governance structures of a lot of different entities,
2 I think all of us as human beings we make decisions in
3 this space for four (4) main reasons. We make
4 decisions because of returns. We make decisions
5 because of risk. We make decisions because of cost.
6 And we make decisions because of time.
7 But it's challenging because even
8 everybody in this room today doesn't perceive all
9 those things the same way and we need to -- we
10 believe that our perspective as consultants is to make
11 sure we have good education on all of these topics so
12 that we can synthesize the relative, you know,
13 implications of whatever decision is going to be made
14 and as best we can, that we can articulate what our
15 objectives are before we do our analysis so that all
16 stakeholders, whether it's management, whether it's an
17 oversight body or whether it's external -- external
18 advis -- external people that are impact -- impacted
19 by the assets, they understand why decisions were
20 made, and that they can kind of coo -- carry forward
21 going forward.
22 And so, so we walk that through. We
23 certainly walked management and staff through that
24 prior to the committee. I believe the framework
25 resonated with MPI as well as the committee also and

1 then so we summarized for the committee during that
2 meeting the key recommendations and the expectations.
3 Mr. Bunston summarized some of these
4 already. The decisions to segregate the assets. The
5 decision to derisk the Basic liabilities. The
6 decision to lengthen the fixed income portfolio; to
7 diversify as well; to reduce the allocation in real
8 estate.
9 The headline numbers from -- from our
10 Mercer perspective -- again, these are all slides just
11 taken from the November 2017 presentation was, at that
12 time, to reduce, you know -- you know, we want --
13 wanted to be transparent. That one understood what
14 are the return implications, what are the risk
15 implications and what are the costs and time
16 implications.
17 And so, you know, the headline number
18 that returns would be decreased by .4 percent and it's
19 $11 million not just $11 per annum but the -- the risk
20 would also go down as well in terms of the surplus
21 volatility, as well as what we called the surplus at
22 risk would go down by $67 million per annum. And then
23 -- but this would also take some time. This is not a
24 situation where one (1) can wave their magic wand. It
25 would take roughly twenty-four (24) months to

1 implement the recommendations MPI was bringing.
2 MR. STEVE SCARFONE: Mr. Makarchuk,
3 sorry to interrupt you, sir. So we see there on slide
4 I believe it's 5, the key recommendations that your
5 firm made to MPIC, but earlier I think on the slide
6 earlier, you indicated that at step 1 that MPIC came
7 forth with some very clear objectives for your firm
8 during this engagement.
9 Can you say -- can you recall what
10 those objectives were?
11 MR. DAVID MAKARCHUK: Sure. So there
12 -- there definitely, you know, from the very beginning
13 risk mitigation was -- was clear on -- clearly on the
14 mind of -- of management and staff that's working on
15 this from -- from the outset. Exactly how that was
16 going to happen, and to what extent, that still wasn't
17 clear that was for the facilitation and an education
18 discussion.
19 But that was, you know, I think the
20 objectives was very much education. We were aware of
21 the eighteen (18) different areas that the CAC had
22 asked to be included in the study. So, you know,
23 being new to the conversation is understanding, well,
24 why are those on the list? How do we work those into
25 the -- to the piece? Where do we need education?

1 Some of those eighteen (18) areas were not necessarily
2 in Mercer's wheelhouse in terms of expertise, but most
3 of them were and we were able to opine on -- on most
4 of them so.
5 But to be clear, the recommendation
6 that was brought to the committee that was, you know,
7 based on, you know, the work that we did with
8 management and staff throughout October and November.
9 I would phrase it as a joint recommendation of MPI
10 management and staff, along with the work that Mercer
11 had already done for them on that path.
12 THE CHAIRPERSON: I'm sorry, to
13 interrupt you, but I just wanted to clarify that point
14 because I had understood your earlier testimony that
15 MPI had come and said, we want to derisk. We want to
16 segregate and that was given to you and then when I
17 read this table it -- it sort of comes across as in,
18 those are your recommendations.
19 Can -- can you just clarify that
20 because I thought the starting point was MPIC said,
21 here are the things we're looking at.
22 MR. DAVID MAKARCHUK: Correct.
23 THE CHAIRPERSON: They came to you,
24 you discuss it with them, you evaluate them and now it
25 sounds -- you come up with some -- some joint

1 recommendation, I think you said.
2 But can you -- I just want to know --
3 MR. DAVID MAKARCHUK: Sure.
4 THE CHAIRPERSON: -- if the starting
5 point is MPI coming to you and saying, here are the
6 things we want as objectives or if it is you saying,
7 you should be derisking, segregating and -- and that.
8 MR. DAVID MAKARCHUK: So it's good.
9 Let me try and clarify that one (1) more time. So one
10 (1) of our very first steps in step 1 and in to step 2
11 is Mercer facilitating discussion on what are your
12 projectives, how are we going to get to them, what are
13 we going there -- and there'd be a slide almost
14 certainly in our proposal, but it's one that I've used
15 dozens of times as well is that, whenever we come into
16 an asset mix conversation for any client, whether it's
17 pensions, insurance or whatever, it's really important
18 that we are agnostic, that we are indifferent.
19 Whether you're going to be a return seeking investor;
20 whether you're a risk mitigating investor; whether
21 you're trying to make better use of costs, time, or
22 whatever.
23 I have clients right now that are re-
24 risking. I have clients that are derisking. I have
25 clients that are moving back into equities. I have

1 clients that are lengthy in duration. It's not for
2 Mercer to singlely decide what our client should be
3 doing. It was facilitation -- and even on the
4 segregation piece, MPI was not committed to
5 segregation at that point, they wanted some analysis
6 and some expert opinion as to whether they should be -
7 - whether they should segregate the assets based on
8 what others were doing.
9 So to clarify, our job was to
10 facilitate, give expert perspective, understand what
11 MPI is trying to achieve and then we, alongside
12 management and staff, brought a recommendation to the
13 committee that in my opinion was in line with the
14 education and the objectives that management and staff
15 had.
16 Does that answer your question? Okay.
17
18 (BRIEF PAUSE)
19
20 MR. DAVID MAKARCHUK: So these were,
21 you know, so, you know, the topics from phase 1 and so
22 many of these questions or topics were either -- came
23 straight from the CAC recommendation, or perhaps
24 they're MPI's as well but there was important
25 questions and, number 1 was: Should there be a unique

1 asset allocation. The analysis discussion,
2 essentially, was our executive summary in fifty (50)
3 words or less which is sometimes tricky to do. You
4 can appreciate that often times there were supporting
5 documentation that -- that supported here.
6 But again and at this point it was a
7 decision that -- very much depended on the dispersion
8 of objectives because our perspective was, if each
9 bucket has more or less the same objectives we don't
10 necessarily see the merits in terms of segregation,
11 but if each bucket very much has different objectives
12 then we'd recommend you segregate.
13 And it's to MPI, it's ball and bat not
14 mine, it's MPI to decide are the decisions -- or the
15 recommendations distinct enough based on what we
16 learned over the couple of months that we worked on
17 this. We think they were and we supported their
18 recommendation to segregate.
19 The investment goals, one (1) of the
20 first things we did once we were hired was to take the
21 current investment policy to read it, to try and
22 summarize what we read into it and you see those in
23 the -- in the centre box there, that risk mitigation
24 was important, minimizing premium levels was important
25 as well, but that our conclusion, the MPI conclusion,

1 was to do this at the business line level because the
2 investment policy did not have business line specific
3 investment objectives.
4 The inflation linkage of liabilities,
5 it was, you know, we learned early on -- early on that
6 much of the obligation -- many of the obligations were
7 linked to future inflation. We were very transparent
8 from the very beginning that real return bonds are the
9 best hedge for future inflation, but that given low
10 inflation expectations MPI made a decision to hedge
11 nominal but not real interest rate risk. We'll be
12 speaking about that more today I'm sure. We
13 supported that recommendation at the time. We
14 continue to support that recommendation based on where
15 markets are, based on what peer practice is, based on
16 the relative pricing of different assets.
17 We talked about the merits of new
18 growth profile exposure. MPI provided a list of asset
19 classes they were otherwise intrigued by and wanted
20 more education on. Glenn summarized some of them
21 already. We provided some education on each of them,
22 including both those that were included and the
23 recommendation, as well as many like diversified
24 growth funds that were assessed but, ultimately,
25 decided not to go forward with

1 And so, that covers the left-hand side
2 of the slide. We talked about a wide spectrum of
3 fixed income options as well. We talked about levered
4 bonds. We talked about commercial mortgages, as well
5 as those that were included. MPI just chose to
6 implement private debt and corporate bonds as part of
7 their recommendation. We talked about the interest
8 rate risk management strategy. Again, the duration,
9 the nominal duration to match 100 percent of the Basic
10 liabilities was the decision that was made.
11 There's different ways to do the
12 projections. We talked about cashflow matching. We
13 talked about duration matching. As MPI developed --
14 developed out its systems, as technology has moved --
15 and technology has moved an awful long way. One can
16 be more sophisticated in terms of how one projects its
17 obligations and then does the modelling.
18 The liability to benchmarks methodology
19 that we used for this particular study is a very
20 efficient way to do a projection, both in terms of
21 time, as well as cost. There are ways to do
22 projections policy by policy. They are more time-
23 consuming. They are more costly to do as well. And
24 so I just want to make sure that we understand the
25 trade-off that was made there. Materially, I don't

1 think that impacted the conclusion that was -- that
2 was raised, but there are different ways to do risk
3 mitigation in that regard or model it anyway.
4 Let's talk about assumptions. So
5 Mercer has a core set of assumptions that we use for
6 all of our Canadian clients, whether they are
7 insurance based, pension based, endowments, what have
8 you. We introduced those to MPI as we would with any
9 one (1) of our clients. MPI is a more sophisticated
10 institutional investor than many of other clients who
11 otherwise running a widget business that does --
12 really not in the financial space.
13 So MPI had its -- some of its own views
14 and it made sense both to them as well as to us to
15 have a interest rate projection that was consistent
16 with their overall business model. We reviewed it.
17 We agreed that it was professionally reasonable. It
18 wasn't exactly the same as our projection, but it was
19 certainly plausible and so we agreed that implied
20 forward rates would be used for our projection work
21 rather than Mercer's long-term assumptions set.
22 Phase 2 objectives, some of them are a
23 little bit redundant and I'm going to spend less time
24 in this slide today, but it was to, you know, look at
25 the risk of the different kinds of liabilities,

1 quantify and show things under different asset mixes.
2 So the ultimate recommendation that the
3 investment committee approved was the end product of
4 many, many different iterations of different charts
5 and graphs and slides that MPI saw throughout the
6 process. And so there definitely was a lot of
7 quantitative modelling that happened through the
8 piece. There was an awful lot of qualitative input
9 that happened as well. And so, you know, that --
10 there's a lot of analysis that happened along the way.
11 We talked about availability and
12 implementation ability, you know, the fund here is
13 large, but it's certainly not the Canada pension plan,
14 it's not a massive plan and so there's some practical
15 limitations that have to happen as well. And, you
16 know, so we considered that also.
17 On the right-hand side we, you know,
18 also talked about the ranges for the different asset
19 classes. We talked about, you know, some specific
20 things in terms of what the corporate allocation
21 should be. We talked about, you know, linking things
22 with the corporate objectives overall. And so, that
23 was a very full meeting where we walked things
24 through. It was clear that the investment committee
25 had pre-read a lot of our material. Their questions

1 were very much on point and we had a number of healthy
2 discussions on most of the topics on the last couple
3 of slides.
4 The next few slides were important as
5 well. I'm just showing the -- the slides here for
6 Basic. Again, this is all about, you know, defining
7 the purpose of all our diff -- different buckets and
8 also articulating the return risk, costs and time
9 objectives as well. And so, the bottom right is a
10 sample as the articulated return and risk objectives
11 that MPI and Mercer worked together to articulate and
12 so in the bottom right here. Again, this is very
13 transparent to the investment committee, to the board
14 and everyone in terms of: What are we trying to
15 achieve from a return perspective? What is trying to
16 be achieved from a risk perspective? And so there was
17 willingness to accept some credit risk. Matching
18 dollar duration was key and that it was clear that
19 mitigating risk was more important than maximizing
20 returns.
21 And so, the top left of the steps show
22 the liabilities. I'm not going to go over that for
23 the group today, but it's important to make sure we're
24 all grounded just in terms of we knew how much was in
25 scope as we went through the different groups, where

1 we are right now and how the liabilities work.
2 Glenn's already covered the actuarial
3 allocation. This is how it looked back in November
4 2017. The recommendation was substantially was -- is
5 unchanged from what was recommended in November to
6 what was brought forward to you today.
7 The Basic portfolio being 100 percent
8 fixed income with no private debt. RSR being a more
9 diversified portfolio with half fixed income, half
10 equities and alternatives.
11 Glenn summarized, you know, some fairly
12 significant changes in terms of selling out the
13 Federals in the bottom right. Adding to the
14 provincials in the corporate somewhat significantly.
15 The MUSH bonds going down eventually and private debt
16 having to increase somewhat.
17 This is a bit more detail on the equity
18 allocation, the alternative allocation. Again, having
19 no impact on the Basic line of business. For RSR, you
20 see kind of what the target was. All these numbers
21 were as of August 2017. I'm sure they've update --
22 they'll update somewhat once the time -- gets time for
23 implementation. But you'll see in the bottom right in
24 the red, you know, definitely a reduction in real
25 estate, private equity and infrastructure.

1 To finish a reading with kind of recap
2 just in terms of what are the key questions that we
3 believe -- and the slide on the left-hand side we use
4 for pretty much all our clients, regardless of whether
5 we're doing a manager search, whether we're doing an
6 asset liability study, but I encourage all fiduciaries
7 and even the Public Utility Board as well as terms of
8 -- all right, if a change is going to be made, how
9 does that impact the expected return? How does it
10 impact expected risk? How much is this change going
11 to cost? And how much time it's going to take?
12 And so, as we walked those through and
13 we tried to summarize in our return, risk, costs and
14 time framework on the right-hand side, what the
15 headline implications were on -- on those different
16 elements, as well as realistically what's the cost
17 implications and realistically what's the timeline
18 implications as well. And so, I was quite satisfied
19 that we had had a -- a thorough discussion at the
20 committee level. I was satisfied that MPI understood
21 the implications of all those different decisions.
22 The CAC and P -- the PUB have raised a
23 number of substantive issues over the last few months,
24 and as part of my opening presentation, I just want to
25 address what I'll suggest are the four (4) topics that

1 I think were the most prevalent.
2 And the first one is, you know, should
3 liabilities have been modelled with a real benchmark?
4 I think we're all on the same page but I just want to
5 make sure we understand the difference between a
6 nominal benchmark and a real benchmark.
7 And so, a nominal benchmark -- maybe
8 I'll start with the real one. A real benchmark is a
9 benchmark that, essentially, assumes that inflation
10 will be volatile into the future. When we talk about
11 a real return bond, a real return bond guarantees a
12 real return. Generally you're going to get the .6-ish
13 percent that they yield, plus whatever inflation is
14 going forward. So if inflation is higher, you'll get
15 more; if inflation is lower you'll get less. You'll
16 always get that real return of .6, but you'll never
17 get more or less than that .6 that you otherwise are
18 going to get from the time you buy the bond.
19 When you but a nominal bond or if you
20 use a nominal benchmark, it's a total return and it
21 doesn't differentiate between the real or the after
22 inflation component, or -- and the inflation
23 components. So, essentially, there's two (2)
24 different components there.
25

1 CONTINUED BY MR. STEVE SCARFONE:
2 MR. STEVE SCARFONE: Sorry, to
3 interrupt again, Mr. Makarchuk. So that is one (1) of
4 the questions that I had for you at the end of the
5 presentation but I think this might be a good
6 opportunity for it because there's a number of
7 different concepts that all sound the same to me, one
8 (1) of which is the nominal liability benchmark versus
9 the real liability benchmark and then yesterday we
10 heard counsel for an Intervenor that MPIC hedged
11 nominal real interest rate -- or nominal interest rate
12 and not real interest rate risk. And there's also the
13 concept of real return versus nominal return.
14 MR. DAVID MAKARCHUK: Right.
15 MR. STEVE SCARFONE: So are all of
16 these concepts the same as what you've just described
17 where it concerned nominal versus real?
18 MR. DAVID MAKARCHUK: Right. I think
19 in real simple -- I didn't mean to use the word "real"
20 there. In simple terms nominal returns are the total
21 return an investor receives from an investment and
22 we'll try and keep things to bonds here.
23 A real return is the after inflation
24 return. The issue I think that's been discussed here
25 is: Should the MPI yil -- liabilities have assumed

1 variable levels of inflation as part of the liability
2 modelling? We definitely want to acknowledge, from an
3 education perspective for the entire group, and I
4 think MPI very much understands as well, that a real
5 liability benchmark would have better reflected
6 inflation volatility.
7 MPI as part of our initial discovery --
8 and you'll see as part of the -- the -- the evidence
9 that was -- was provided as part of the technical
10 conference, cooly indicated by the end of October that
11 after education on inflation, volatility, and the
12 infla -- in education on different levels of risk, a
13 willingness to accept inflation, volatility, to model
14 its liabilities, assuming a more conservative 2
15 percent level of inflation, and to hedge nominal risk,
16 in other words, total interest rate risk as opposed to
17 only hedging the inflation risk, which you otherwise
18 would have achieved through modelling with real return
19 bonds.
20 Real return bonds at the time of our
21 study had an implied level of inflation. When I say
22 it's implied, it's the difference between what an
23 investor would pay and yield for a long-term Canadian
24 nominal bond and a long-term Canadian real bond.
25 There's a price difference there that essentially says

1 this is what the market's assuming inflation's going
2 to be.
3 And for those that has investing
4 background, and I'll try and be rather simple, here,
5 there's otherwise an arbitrage opportunity if there's
6 a price gap between what one expects inflation to be
7 and how those two (2) different securities are
8 otherwise priced.
9 And so at the time that we did the
10 study, bonds -- real return bonds and nominal bonds
11 were implying future inflation at about 1.6 percent.
12 The gap today, as of a least a week or two (2) ago,
13 was about 1.7, maybe 1.75 percent. From our
14 perspective, professionally, at the time when we did
15 the study, we said, All right. The market's pricing
16 inflation at 1.6 percent. MPI is going to project its
17 liabilities with a more conservative 2 percent
18 inflation assumption. From our perspective, that's a
19 more conservative expectation, because the market is
20 telling us inflation is probably going to be only 1.6
21 percent.
22 We were satisfied that that liability
23 modelling method had a level of conservatism that we
24 felt was professionally appropriate. MPI had
25 indicated they were willing to accept inflation

1 volatility, in part because of the pricing gap that
2 was otherwise there, and that they clearly had an
3 investment belief, they clearly -- clearly had an
4 investment objective that they wanted to hedge nominal
5 rather than real risk.
6 And so we would definitely acknowledge
7 that if one was motivated and one clearly had an
8 objective to hedge inflation risk, that a real
9 liability benchmark would have been a better choice.
10 But that was not the decision that MPI otherwise made.
11 I'll give you some context on other
12 investors in -- in my -- in my final slide, but I just
13 wanted to clarify that perspective on -- on that
14 point.
15 MR. STEVE SCARFONE: Thank you. Thank
16 you. So -- and I'm sorry, I -- I have one (1) more
17 question: Had the Corporation decided to hedge real
18 interest rate risk, and not the nominal that you've
19 just described, how would that have impacted the
20 returns on the portfolio, if at all?
21 MR. DAVID MAKARCHUK: Sorry. So if
22 the decision was that MPI wanted to completely hedge
23 inflation risk, the expected returns would have been
24 materially lower. The opportunity set for the
25 investments would have been materially lower as well.

1 An investment allocation that completely hedged
2 inflation risk as part of our preliminary modelling
3 would have been roughly two-thirds (2/3) real return
4 bonds. MPI had made it clear that they were not
5 interested in using leverage to achieve -- and I'll
6 talk about that in a moment -- that they do not want
7 to use leverage to achieve that. And so the
8 diversified portfolio of provincials, of corporates,
9 private debt, would not have been achievable in this
10 situation, and MPI otherwise would have accepted a
11 lower level of return.
12 We didn't do an awful lot of analysis
13 on real return bonds at the time after MPI made that
14 decision because, you know, cost miti -- you know,
15 there was -- there were time limitations of cost
16 mitigations as well. Over the last month or two (2),
17 at the CAC's request, we reproduced some of that
18 analysis, but, you know, given MPI's objectives stated
19 at the time, that was the -- the resulting
20 recommendation.
21 MR. STEVE SCARFONE: Thank you.
22 MR. DAVID MAKARCHUK: So that extends
23 -- actually, go back one (1), just to the bottom,
24 there. They extended quest -- you know, piece is,
25 should the asset mix of include -- hedged -- should

1 have -- should have a hedge inflation risk? The top
2 one is just about how should the liabilities be
3 modelled? The ultimate decision is, you know, should
4 we have used assets to hedge inflation risk?
5 And so, again, that was not a stated
6 objective of MPI. When we look at many pure
7 investors, whether they're similar insurance
8 investors, whether they're pension funds as well, most
9 pure investors accept inflation risk, and those that
10 do hedge typically only hedge a portion.
11 There's a number of reasons for that.
12 In general, real return bonds are relatively expensive
13 compared to best estimate expectations of inflation.
14 There are only so many that are out there. They don't
15 trade as frequently as investors otherwise would like.
16 And -- and so, in particular, given that it was not a
17 stated objective, it wouldn't have made sense. And
18 when we did the modelling, real return bonds fell off
19 rather quickly if one has a nominal liability.
20 We acknowledge that headline inflation
21 has certainly risen since the study, but the consensus
22 expectation for long-term inflation has not. So from
23 our perspective, there is still some margin between
24 where consensus inflation will be over the long term,
25 and what MPI has modelled, so we continue to remain

1 comfortable supporting the recommendation that was
2 concluded back in the fall of 2017.
3 There's a discussion on overlays,
4 whether they should have been used to hedge inflation
5 risk as well. I'm not -- I just want to make sure the
6 group has a reasonable level of comfort of what
7 leverage overlays are. Essentially, it allows an
8 investor to borrow -- lever -- their portfolio to get
9 more exposure than they otherwise would be able to
10 simply with direct investments.
11 Some investors are very comfortable
12 borrowing to invest. Some investors are very
13 uncomfortable borrowing to invest, either in their
14 personal portfolio, or in the corporate portfolio, or
15 the institutional portfolio, they are otherwise able
16 to oversee. I'll acknowledge that sometimes that
17 those perspectives are based on academic persp --
18 academic research, and sometimes they are based on
19 just personal experience, or personal perception, or
20 just the -- one's overall risk tolerance.
21 MPI decided they were not comfortable
22 with leverage or overlays. That decision does not
23 place them as an outlier relative to pure investors.
24 Many pure investors are not comfortable with leverage,
25 as illustrated in some of the different efficient

1 frontier studies. Some investors are, and some
2 investors have done quite well as a result of it, but
3 there are risks associated with leverage and overlays,
4 and MPI indicated they were not prepared to take those
5 on.
6 And finally, it was writ -- MPI, too,
7 relying on quantitative models. From our perspective,
8 while quantitative models certainly were the
9 foundation for a lot of the work that we did, there
10 definitely was a healthy dose of qualitative input
11 that came both from management and staff, from the
12 investing committee as well, and from our perspective,
13 especially when you look at all the different peer
14 asset liability studies that I have done over my
15 career, I would suggest that quality considerations
16 were more than adequately recommend -- or reflected in
17 the final asset mix recommendation.
18 My final slide is just going to
19 reaffirm some of the things I already talked today,
20 but it's cosigned by each of Angelo, Pawel, and
21 myself. We facilitate a discussion with regard to
22 return, risk, cost, and time, both with management and
23 staff, as well as the investment committee as well.
24 And from our perspective, we certainly acknowledge
25 that different investors can and will draw different

1 conclusions on those different -- on those different
2 factors, but that we believe that based on our
3 understanding of MPI's business, our understanding of
4 MPI's overall objectives, that the recommendation they
5 brought forward is a reasonable and prudent
6 recommendation that balances those four (4)
7 objectives: Enhancing returns, mitigating risks,
8 mitigating costs, and making good use of time.
9 We'll definitely acknowledge that
10 inflation has moved since we did this study. That
11 having been said, we continue to believe that a 2
12 percent projection of inflation over the long-term is
13 prudent and reasonable, and that the merits of hedging
14 inflation risk do not exceed the merits of hedging
15 nominal risk over the long term.
16 I think that's my last slide. Yes.
17 MR. STEVE SCARFONE: Thank you, Mr.
18 Makarchuk. Just a couple follow-up questions, if I
19 may.
20 Sir, in your -- in your presentation,
21 during your presentation, you indicated that Mercer --
22 or you said you didn't do a lot of analysis of real
23 return bonds at the time. I understand that following
24 the preparation of the study, your firm was again
25 engaged to do some further modelling. Is that right?

1 MR. DAVID MAKARCHUK: That's correct.
2 MR. STEVE SCARFONE: And that, I
3 understand, was in fact to take into account -- or do
4 an analysis of purchasing real return bonds for the
5 investment portfolio. Is that right?
6 MR. DAVID MAKARCHUK: I think the
7 primary -- the -- the initial purpose was to model the
8 liabilities using a real liability benchmark, and then
9 it was plausible that real return bonds perhaps would
10 be an asset class that would come out of the
11 recommendation. So I think the -- the starting point
12 was to model.
13 MR. STEVE SCARFONE: Right. So
14 without -- without making use of a real liability
15 benchmark, you can't have real return bonds. Is that
16 fair?
17 MR. DAVID MAKARCHUK: One could still
18 choose to invest in real return bonds, even if you had
19 a nominal benchmark. Those are separate decisions.
20 They just -- the real return bonds would model very
21 poorly relative to a nominal objective, and that's why
22 they -- real return bonds were never excluded from the
23 asset class options in 2017, but as soon as we started
24 running an efficient frontier model with a nominal
25 benchmark, there were clearly other asset classes that

1 had better characteristics.
2 When we re-did the analysis last month,
3 and if a real liability benchmark was used, real
4 return bonds then do become part of a recommended
5 asset class strategy going forward, and then the
6 percentage one would have -- it would depend on how
7 much inflation risk one was trying to mitigate.
8 MR. STEVE SCARFONE: I see. And do
9 you recall, sir, if the -- if the recommendation to do
10 modelling on the real liability benchmark, if that
11 request included all of the four (4) factors that you
12 identified that you say should be considered when
13 providing investment advice, that is the cost, risk,
14 return and time?
15 MR. DAVID MAKARCHUK: Yeah. We would
16 have talked about all of those as we -- as we went
17 through the -- the conversation with -- with
18 management in terms of what are the expected returns
19 from real return bonds? What are the risks? What's
20 the volatility of those as well?
21 The time piece is more about governance
22 and implementation. It would take longer to build a
23 real return bond portfolio, given their liquidity
24 issues, than perhaps for -- for corporates or the
25 like. And again, if one wanted to build them quickly,

1 there are some cost implication also.
2 So we would have talked about all of
3 those factors. I think Glenn could tell you he's sick
4 of me hearing -- saying return, risk, cost, and time,
5 over and over throughout the project.
6 MR. STEVE SCARFONE: Also during your
7 presentation, Mr. Makarchuk, you mentioned that part
8 of the engagement was to have Mercer consider the
9 eighteen (18) recommendations that I think you
10 understood to come from Mr. Valter Viola. Is that
11 correct?
12 MR. DAVID MAKARCHUK: Correct. Those
13 were provided to us at the outset.
14 MR. STEVE SCARFONE: Yes. And in your
15 estimation, Mr. Makarchuk, does the study and the
16 recommendations made by Mercer fully take into account
17 the eighteen (18) recommendations of Mr. Viola?
18 MR. DAVID MAKARCHUK: Yeah. They were
19 all addressed in -- in different levels of detail.
20 Throughout -- throughout the study, we needed some
21 input from MPI to -- to ground ourself on -- on a
22 couple of them. Some of them were a bit outside of --
23 or of -- of Mercer's day-to-day consulting expertise,
24 but we were definitely able to offer perspective on
25 each of the eighteen (18).

1 MR. STEVE SCARFONE: And you may have
2 mentioned this, but I just want to confirm -- or get
3 your thoughts on whether MPIC's projections of the
4 volatility of inflation were in line with Mercer's
5 projections on inflation.
6 MR. DAVID MAKARCHUK: I don't
7 specifically recall exactly what the delta was in
8 terms of ours versus theirs. I do recall that they
9 were materially consistent.
10 One needs to consider our starting
11 point for inflation, and where the federal, you know,
12 federal bank, central banks are. There was inflation
13 volatility from the '70s and '80s that I don't think
14 is relevant in our -- today's starting point session,
15 but materially, I think we are in the same -- in the
16 same ballpark, there.
17
18 (BRIEF PAUSE)
19
20 MR. STEVE SCARFONE: Just give me one
21 moment.
22 MR. DAVID MAKARCHUK: Okay.
23
24 (BRIEF PAUSE)
25

1 MR. STEVE SCARFONE: Yes, you did
2 mention at the outset about the experience level -- or
3 the experience that your firm has, and you personally,
4 in the preparation of ALM studies, Asset Liability
5 Management Studies.
6 For a sophisticated institutional
7 client like Manitoba Public Insurance, Mr. Makarchuk,
8 how often would your firm recommend having such a
9 study performed?
10 MR. DAVID MAKARCHUK: Sorry, that's a
11 good question. And so a general rule of thumb on --
12 on strategy, like, this is a starting point of four
13 (4) years, sometimes as short as three (3), sometimes
14 perhaps five (5). Whenever we're doing asset mix
15 studies, one (1) of our first statements -- and we'll
16 try and guide as long as Canada's trying not to let
17 short-term noise impact long-term decisions.
18 And MPI was fairly clear at the
19 beginning that they were looking to make a long-term
20 strategy decision. We were definitely supportive of
21 that. Studies like this you shouldn't have to refresh
22 every six (6) to twelve (12) months. If you do, you
23 probably have some governance issues you need to sort
24 out, but I also appreciate that if you need to review
25 it every six (6) to twelve (12) months, you're more of

1 a tactical investor as opposed to a long-term
2 strategic investor.
3 And the tools that we probably used
4 aren't really meant for investors who are shifting
5 every six (6) to twelve (12) months. These are
6 studies that should be done every four-ish, four (4)
7 or five (5) years and implemented over time.
8 MR. STEVE SCARFONE: Thank you. And
9 so if the Corporation was to engage your firm again
10 for an ALM Study in four (4) or five (5) years, as --
11 as you have said, is there any bars or anything that
12 would prevent MPIC from purchasing different
13 investments under the strategy that now -- that's now
14 been implemented and proposed?
15 MR. DAVID MAKARCHUK: I'm not sure I
16 understand the question. Can you --
17 MR. STEVE SCARFONE: Well, certainly,
18 there -- there seems to be some suggestion that other
19 asset classes could have been considered, perhaps
20 maybe even modelling on a -- on a real liability
21 benchmark.
22 Do any of these factors -- or -- or is
23 the Corporation pre -- precluded under the new
24 investment strategy from adopting any such modelling
25 in the next -- in a -- in a study that might occur in

1 four (4) or five (5) years?
2 MR. DAVID MAKARCHUK: No, I don't
3 think so. I think the -- the asset classes that
4 you're otherwise recommending, particularly for Basic,
5 but also for RSR as well, are all relatively liquid.
6 The private debt allocation might take a bit of time
7 to unwind if, for whatever reason, you were to change
8 your mind, but there's no real recommendations in
9 terms of where you're going in terms of an asset class
10 decision that you would be able -- would not be able
11 to undo four (4) or five (5) years from now. Is that
12 what you're getting at?
13 MR. STEVE SCARFONE: It -- it was,
14 yeah --
15 MR. DAVID MAKARCHUK: Okay.
16 MR. STEVE SCARFONE: -- in terms of
17 liquidation, and changing the mix, and -- and so my
18 final question, sir: So the -- the -- if -- I think
19 you might agree that the big change would be from the
20 co-mingled portfolio to one that's segregated.
21 Is that fair?
22 MR. DAVID MAKARCHUK: For -- yeah,
23 there's definitely one (1) of the bigger ones. I'm
24 thinking which the biggest one would be. That --
25 that's one (1) of the biggest ones. Yeah.

1 MR. STEVE SCARFONE: Yes. And -- and
2 so is that a common thing in -- that -- in your
3 experience that you've seen with institutional
4 clients, where they move into segregated portfolios,
5 where before, they'd been in a co-mingled state?
6 MR. DAVID MAKARCHUK: Some other
7 clients have been segregated for a long period of
8 time, so I'm not sure how many have shifted recently.
9 I've advi -- advised insurance clients a lot smaller
10 than you. I've advised insurance clients a lot larger
11 than -- than the situation.
12 I think more and more, as reporting
13 standards have grown, as risk mitigation standards
14 have grown, segregation makes a whole lot of sense,
15 and co-mingling is tougher and tougher to defend,
16 unless you have a really simple business strategy,
17 maybe just one (1) line of business.
18 MR. STEVE SCARFONE: Thank you. So,
19 Mr. Chairperson, I said that was my last. I do have
20 one (1) further the question about -- I just wanted
21 your thoughts, sir, on what role or how important the
22 risk tolerance that your firm was provided was in the
23 strategy that reco -- that was ultimately recommended
24 by Mercer?
25 MR. DAVID MAKARCHUK: How important

1 the risk tolerance was?
2 MR. STEVE SCARFONE: Yes.
3 MR. DAVID MAKARCHUK: So this
4 certainly is very important for us, as quickly as we
5 can when we are introduced to a new client -- we
6 weren't actively working with MPI prior to our
7 engagement, so we had to get to know management and
8 staff. We had to get to know, you know, what the
9 management's perspective, and what the Board would
10 accept, and what they wouldn't. We need to figure
11 that out really quickly, in -- in terms of having a --
12 an efficient and successful engagement in the context
13 of our independent education, as well.
14 As I mentioned before, it's not for us
15 to decide on the risk tolerance an investor should
16 have. This was a -- clearly a situation that MPI was
17 motivated to -- to mitigate risk. So yes, it was
18 certainly very important in the situation.
19 MR. STEVE SCARFONE: Thank you. Those
20 are all my questions for Mr. Makarchuk, Mr. Chair.
21 THE CHAIRPERSON: Thank you, Mr.
22 Scarfone. Are -- are there any other people who are
23 going to be testifying for this panel, or -- or is
24 that the end of this panel?
25 MR. STEVE SCARFONE: That is the end

1 of the panel, and I was just reminded by my co-counsel
2 to -- Mr. Makarchuk is available for cross-examination
3 both this afternoon, and again tomorrow.
4 THE CHAIRPERSON: Good.
5 MR. STEVE SCARFONE: Yeah.
6 THE CHAIRPERSON: Okay. Well, I -- I
7 understand the entire panel is.
8 MR. STEVE SCARFONE: Okay. Yeah.
9 Yes.
10 THE CHAIRPERSON: Yes. We have this
11 quarterly financial that's already been in, is a -- an
12 exhibit. Is this for the next panel?
13 MR. ANTHONY GUERRA: Mr. Chair, that
14 is filed in response to minimum file -- filing --
15 excuse me --
16 THE CHAIRPERSON: Okay.
17 MR. ANTHONY GUERRA: -- minimum filing
18 requirement 4(a).
19 THE CHAIRPERSON: So there is no
20 direct testimony on this, then? This is simply in
21 response to a filing requirement --
22 MR. ANTHONY GUERRA: That's correct --
23 THE CHAIRPERSON: -- and then reply?
24 Okay.
25 MR. ANTHONY GUERRA: -- Mr. Chair.

1 Thank you.
2 THE CHAIRPERSON: Ms. McCandless --
3 MS. KATHLEEN MCCANDLESS: Thank you.
4 THE CHAIRPERSON: -- would you prefer
5 to start now, or would you prefer to have the lunch
6 break now?
7 MS. KATHLEEN MCCANDLESS: I would
8 suggest that I start -- pardon me. I can start now.
9 I have one (1) section that will probably take me to
10 the lunch break, so.
11 THE CHAIRPERSON: Okay. Okay.
12
13 CROSS-EXAMINATION BY MS. KATHLEEN MCCANDLESS:
14 MS. KATHLEEN MCCANDLESS: And so, Mr.
15 Makarchuk, thank you for your presentation. I will
16 have questions for you this afternoon. We do have a
17 fair amount of ground to cover with this panel, so
18 just so that the panel's aware, a roadmap of my cross-
19 examination. I will start with interest rate
20 forecasting. That will probably take me to the lunch
21 break. After the lunch break, I will get into the
22 area of investments, and following investments, we'll
23 have questions of Mr. Makarchuk.
24 Depending how long that tech -- takes,
25 that may take me to the end of the day. If not, then

1 I will continue on with Capital Maintenance Provision,
2 and some other DCAT and RSR questions. But my -- my
3 cross may run into tomorrow morning.
4
5 (BRIEF PAUSE)
6
7 MS. KATHLEEN MCCANDLESS: So thank
8 you. Following on that, I will start with some
9 questions about interest rate forecasting, about which
10 we spoke a little bit yesterday and heard again from
11 you this morning, Mr. Bunston.
12 Kristen, could you please pull up --
13 you have it in front of me, here. A few steps ahead
14 of me. Thank you.
15 So in support of its position -- in
16 favour of using the naive interest rate forecast, the
17 Corporation did prepare this -- what would be a
18 historical analysis of interest rate forecasting over
19 the period spanned by the 2005 GRA to the 2018 GRA,
20 yes?
21 MR. GLENN BUNSTON: Yes, this is the
22 chart that we've prepared and presented for several
23 years now on interest rates.
24 MS. KATHLEEN MCCANDLESS: And if we
25 just scroll down to the narrative, here, three (3)

1 lines down, it says:

2 "Over twelve (12) months, the naive
3 forecast had a lower standard error
4 compared to the 50/50 forecast and the
5 SIRF."

6 Yes?

7 MR. GLENN BUNSTON: Yes, that's
8 correct.

9 MS. KATHLEEN MCCANDLESS: Then
10 scrolling onto the next page, at figure INV-11, you
11 see that before you?

12 MR. GLENN BUNSTON: I see that.

13 MS. KATHLEEN MCCANDLESS: And that's
14 the historical analysis of the SIRF, so the Standard
15 Interest Rate Forecast 50/50 and naive forecast from
16 2005 to 2018 GRA?

17 MR. GLENN BUNSTON: Correct.

18 MS. KATHLEEN MCCANDLESS: Now, from
19 the table, I can see that the naive forecast has a
20 standard error of .15 percent. That's on the right-
21 hand side, at line 15?

22 MR. GLENN BUNSTON: Yes, that's
23 correct.

24 MS. KATHLEEN MCCANDLESS: And -- line
25 19, pardon me. And the 50/50 forecast has a standard

1 error of .16 percent. That's the centre at line 19,
2 yes?
3 MR. GLENN BUNSTON: Correct.
4 MS. KATHLEEN MCCANDLESS: Just for the
5 education of the panel, what is standard error, and
6 what does it tell us?
7
8 (BRIEF PAUSE)
9
10 MR. GLENN BUNSTON: So the -- the
11 standard error just simply measures the -- the average
12 deviation between one (1) set of data versus the --
13 the other set of data.
14 MS. KATHLEEN MCCANDLESS: And so is
15 the difference between the two (2) standard error
16 statistics, here, so being .15 percent and .16
17 percent, relatively large or relatively small in this
18 particular context?
19 MR. GLENN BUNSTON: Well, the standard
20 errors are quite similar at point-one-five (.15)
21 versus point-one-six (.16), but I would point out that
22 the average differences are significantly different,
23 at point three-four (.34) versus .15 percent.
24 MS. KATHLEEN MCCANDLESS: So in other
25 words then, did the naive forecast perform

1 significantly better than the 50/50 forecast or only
2 marginally better?
3 MR. GLENN BUNSTON: Well, in terms of
4 the standard errors, they're not significantly
5 different, but the naive forecast also has less bias
6 in that it is closer, on average, to the -- to the
7 actual number while the 50-50 forecast is biased in an
8 upward direction.
9 MS. KATHLEEN MCCANDLESS: Thank you.
10 When I scan my eye down one (1) of the
11 actual columns in figure INV-11, it appears that with
12 respect to the pattern of change in the 10 year
13 Government of Canada bond yield at least up to and
14 including the 2016 GRA, it's dominated by downward
15 movements, yes?
16 MR. GLENN BUNSTON: Yes, interest
17 rates from 2005 decreased up until 2016.
18 MS. KATHLEEN MCCANDLESS: And it
19 appears that, in fact, over those eleven (11) years
20 the 10-year Government of Canada bond yields only
21 increased twice, correct?
22 MR. STEVE SCARFONE: Perhaps, Ms.
23 McCandless, just because I don't think he was
24 expecting that, can you identify the years in which
25 they increased?

1 MS. KATHLEEN MCCANDLESS: Lines 10 and
2 14. Pardon me, 2010 and 2014.
3 MR. GLENN BUNSTON: Yes, it appears
4 that the yield on that -- the actual yield on the
5 Government of Canada 10-year bond increased twice
6 during that period of time.
7
8 CONTINUED BY MS. KATHLEEN MCCANDLESS:
9 MS. KATHLEEN MCCANDLESS: Thank you.
10 And if we returned to the previous
11 figure, INV-10, over the same period, it appears the
12 banks have been persistently forecasting an upward
13 movement in interest rates, yes?
14 MR. GLENN BUNSTON: That's correct.
15 MS. KATHLEEN MCCANDLESS: So what we
16 can take from this then, it seems that the naive
17 forecast is almost bound to have a lower standard
18 error than anything tied to the bank forecasts, like
19 the 50-50 forecast.
20 MR. GLENN BUNSTON: Yes, that's our
21 position. That's why we recommended the naive
22 forecast.
23 MS. KATHLEEN MCCANDLESS: However, if
24 a longer history could be assembled for this type of
25 an analysis, it's possible that a different conclusion

1 would be reached, yes?
2 MR. GLENN BUNSTON: Certainly that's
3 possible if more data was used, they might have a
4 different conclusion.
5 MR. LUKE JOHNSTON: And just stepping
6 in. Depending on how you're suggesting we make that
7 decision. If you're suggesting that we take this
8 chart of history and measured standard error, then --
9 then perhaps.
10 But the long-term moves on interest
11 rates are very much -- about 50 percent chance of
12 going up, 50 percent chance of going down.
13 I think there is overwhelming evidence
14 here that banks aren't very good at predicting it. If
15 this chart doesn't tell you that, I don't know what
16 does.
17 So again, naive is the current rate,
18 we're suggesting we update it as late as possible.
19 Whether these are up, down or straight I don't think
20 it changes our opinion on that. We're not interested
21 in making a bet based on performance that looks like
22 this.
23 MS. KATHLEEN MCCANDLESS: Thank you.
24 Kristen, could you please pull up MPI Exhibit 20, page
25 14. This is the Corporation's rebuttal evidence files

1 to the prefiled evidence of Dr. Simpson and Ms. Sherry
2 for CAC.
3 And you see under 2.4 at line 1 it
4 starts:
5 "The recommendation of Dr. Simpson
6 and Ms. Sherry to adopt the 50-50
7 interest rate forecast on the basis
8 of the naive is inferior to the 50-
9 50 in recent years, amounts to
10 ingraining recency bias into the
11 forecast while rejecting the breadth
12 of historical evidence."
13 Do you see that before you?
14 MR. GLENN BUNSTON: Yes, I see that.
15 MS. KATHLEEN MCCANDLESS: Can you
16 explain what is meant by "recency bias" here?
17 MR. GLENN BUNSTON: That would refer
18 to taking into -- providing a larger weight to recent
19 data than to older data.
20 MS. KATHLEEN MCCANDLESS: Would it be
21 possible that the Corporation's use of only the latest
22 14 years for this analysis, say compared to the
23 history of -- basically since its inception, would
24 also be subject to recency bias?
25 MR. GLENN BUNSTON: That's possible,

1 but the reason that we haven't gone back further is
2 because we don't have bank forecasts going back
3 further. So while we would like to provide that data,
4 it's just not available.
5 MS. KATHLEEN MCCANDLESS: Now at PUB-
6 MPI-1-11A, the Corporation was asked to discuss the
7 statistical significance of a sighted improvement in
8 standard error using the naive forecast over the 50-50
9 forecast, yes?
10 MR. GLENN BUNSTON: Yes, that's right.
11 MS. KATHLEEN MCCANDLESS: And then in
12 its response to this Information Request at pages 2 to
13 3, the Corporation introduces the concepts of bias and
14 efficiency of estimates, yes?
15 MR. GLENN BUNSTON: Correct.
16 MS. KATHLEEN MCCANDLESS: Can you
17 explain what both of those terms mean?
18 MR. GLENN BUNSTON: So my
19 understanding is that efficiency is how disbursed and
20 scattered the -- the forecast is, and bias is whether
21 it tends to be above or below the -- the actual
22 number.
23 MS. KATHLEEN MCCANDLESS: Now, if we
24 scroll down, this response includes a statistical test
25 at figure 1. Do you see that before you?

1 MR. GLENN BUNSTON: Yes, I see that.
2 MS. KATHLEEN MCCANDLESS: And this is
3 a paired sample T test on the sample mean to determine
4 if the differences between the 50-50 forecast and the
5 naive forecasts are statistically significant, yes?
6 MR. GLENN BUNSTON: Right.
7 MS. KATHLEEN MCCANDLESS: Could you
8 please just explain what is shown in this analysis?
9
10 (BRIEF PAUSE)
11
12 MR. STEVE SCARFONE: Ms. McCandless,
13 so the person who provided this figure is sitting
14 behind the gentleman, if they could caucus with him
15 for a second so they can understand it.
16 MS. MCCANDLESS: Yes, that's fine.
17
18 (BRIEF PAUSE)
19
20 MR. LUKE JOHNSTON: Hi, just chiming
21 in here. Sorry, I had to bring up the question.
22 So yeah, like per the -- per the answer
23 we're -- we're basically using a statistical test of
24 the difference it means to see if there's a
25 statistically valid difference, or if it's just a

1 random occurrence.
2 And per the -- per the -- per the
3 response, it did show that the naive forecast, at
4 least for this set of data, is significantly different
5 result than the 50-50 forecast at 99 percent
6 confidence.
7
8 CONTINUED BY MS. KATHLEEN MCCANDLESS:
9 MS. KATHLEEN MCCANDLESS: The
10 significant difference, does that go to efficiency or
11 to bias?
12 MR. LUKE JOHNSTON: It would be,
13 again, per the question, how variable the forecast is
14 relative to the -- to the actual.
15
16 (BRIEF PAUSE)
17
18 MS. KATHLEEN MCCANDLESS: Thank you.
19 This analysis uses the same 14-year
20 history when the banks were persistently forecasting
21 upward movement while interest rates were
22 predominantly falling, is that right?
23 MR. LUKE JOHNSTON: That's correct.
24 And not to cut off your line of questioning, but I --
25 when you talk about recency bias, I actually think the

1 opposite of what you're talking right now is true.
2 So we've heard Dr. Simpson come here
3 and say, you know, it doesn't take a genius to predict
4 that interest rates are going to go up when we're at
5 the lowest levels of all time. And I -- I would agree
6 with him. Like, where are they going to go, right?
7 The fact that the naive forecast
8 perform better in that environment is the most extreme
9 example I could give that the naive forecast is
10 better, because everyone in the world, like apparently
11 knew interest rates were going up and they didn't for
12 the whole entire time.
13 That should have been the -- the most
14 likely scenario where your upward interest rate
15 forecast was going to be correct and it wasn't and it
16 still didn't do as good as the naive over that period.
17 That tells you that, man, if we were in a regular
18 period of time where the -- everyone wasn't saying 100
19 percent chance rates are going up, it would do even
20 better would be my expectation.
21 So I think the recency bias actually
22 benefits the 90 forecast, not the -- not the other
23 one.
24 MS. KATHLEEN MCCANDLESS: Thank you.
25 Kristen, can you please pull up MPI Exhibit 20, page

1 16, this is again the rebuttal evidence filed by MPI.
2 And if we scroll to the bottom of the page there's a
3 graphic of a dartboard analogy, do you see that?
4 Could you just please describe what
5 this graphic depicts?
6 MR. GLENN BUNSTON: So this graphic is
7 -- is trying to illustrate the difference between bias
8 and -- and variance.
9 So, as I mentioned, a forecast with a
10 high bias is going to be significantly different than
11 the actual or the -- which is depicted here by the
12 bulls-eye.
13 A low bias would be very close to the -
14 - to the actual figures and then variance just
15 indicates how different the very -- the forecasts are
16 from each other. So we se them on the left-hand side,
17 they're scattered and less concentrated.
18 And then in the second chart there we
19 see that there's high variance, but low bias. So
20 their forecasts are scattered, but they're clustered
21 around the -- the actual figure or the bull's-eye.
22 MS. KATHLEEN MCCANDLESS: So where
23 would both of the 50-50 and the naive forecasts fit
24 within this graphic?
25 MR. GLENN BUNSTON: So the 50-50

1 forecast has a higher bias than the naive, and the --
2 the naive has a -- has a low variance, since it's one
3 number. And the -- the 50-50 forecast, since it comes
4 from several different forecasters would have a higher
5 variance.
6 MS. KATHLEEN MCCANDLESS: Thank you.
7 Kristen, can we please turn to page 28 of the
8 investment section.
9 At the top of the page, current page 26
10 here, so if we go to page 28. Pardon me. Go back up,
11 I think I saw the reference I was looking for. Yes.
12 So at the top of the page here,
13 starting at line 1, the Corporation sites the support
14 of its external actuary, Mr. Joe Chang, for the use of
15 the naive forecast, yes?
16 MR. LUKE JOHNSTON: That's correct.
17 MS. KATHLEEN MCCANDLESS: And then Mr.
18 Cheng in his October 2017 external review of the prior
19 Basic DCAT investigations, so that's at DCAT section
20 attachment A, page 7 at item 1.
21 MR. LUKE JOHNSTON: Yes.
22 MS. KATHLEEN MCCANDLESS: Mr. Cheng
23 says:
24 "This report introduces a naive
25 interest rate assumption throughout

1 the forecast period. Previous
2 increasing rate assumptions have
3 proved to be incorrect compounding
4 forecasting errors. In my opinion,
5 a naive interest rate assumption is
6 appropriate for the base scenario.
7 Notwithstanding the two (2) recent
8 rate hikes by the Bank of Canada, I
9 do not see any material risk in
10 assuming a naive interest rate as a
11 base case. My initial guess is an
12 increase in interest rates should
13 strengthen the financial position of
14 Basic."
15 Yes?
16 MR. LUKE JOHNSTON: Yes, from -- from
17 this quote on the previous page. So I think Mr. Cheng
18 is saying what we're saying, is that people don't
19 forecast interest rates very well. And -- and I think
20 we're pretending if we think that these bank forecasts
21 are incredibly accurate. So he just came out and said
22 nobody can forecast this, so -- right?
23 And then this -- on this report,
24 obviously, he -- if there's two (2) recent hikes, we
25 know about it. So it would be silly for him to say

1 that, you know, the old naive forecast remains valid
2 if he knows of two (2) interest rate hikes, right.
3 But that's really the same thing we're
4 saying here too. Of course, we can update our
5 forecast for new information and if rates do rise 50-
6 60 basis points we would be happy to provide updated
7 forecasts and rate indications just beyond that, I'm
8 assuming large increases doesn't seem like the best
9 estimate or -- or good practice for MPI.
10 MS. KATHLEEN MCCANDLESS: So just to
11 take you back, Mr. Johnston, the Corporation cited Mr.
12 Cheng as support for the naive and then I've taken you
13 to item number one in the DCAT attachment, page 7.
14 So my question is: Is what's included
15 in item number 1 here, the cornerstone or the
16 foundation for the Corporation's evidence of Mr.
17 Chang's support for the naive forecast?
18 MR. LUKE JOHNSTON: I would have to
19 look if -- I know we had conversations with Mr. Cheng
20 on interest rates. I'm feeling that there's another
21 source that we're pulling from, but I can't recall it,
22 but we'll look at that and if I do have anything else,
23 I'll bring it after the break or let you know that I
24 don't. This is one (1) of the sources though.
25 MS. KATHLEEN MCCANDLESS: Thank you.

1 I do have some other questions about what Mr. Cheng
2 has written, so it may tweak your memory. But if we
3 could go back for a minute to PUB-MPI-1-11C,
4 attachment A, page 1 at the bottom of the page.
5 This is again from Mr. Cheng and in
6 this response to this IR, Mr. Cheng confirmed that his
7 opinion on the use of the naive forecast was in the
8 context of a DCAT investigation of Basic satisfactory
9 financial condition and specifically not on a Basic
10 ratesetting context, yes?
11 MR. LUKE JOHNSTON: That's correct.
12 I will say though that MPI's base case is also its
13 ratesetting forecast.
14 MS. KATHLEEN MCCANDLESS: Then --
15 sorry to make you jump around, Kristen, but if we
16 could go back to page 7 of the DCAT attachment.
17 And if we go back to the last sentence
18 of Mr. Chang's observation at 1, which was:
19 "My initial guess is an increase in
20 interest rates should strengthen the
21 financial position of Basic."
22 Do you see that before you?
23 MR. LUKE JOHNSTON: That is generally
24 true and we have evidence that supports that in lots
25 of previous hearings.

1 As we segregate the portfolios the
2 benefit will be a little bit less. Like in the old --
3 if you recall from prior hearings when interest rates
4 went up, Basic did well and the competitive lines did
5 poorly.
6 Now that we've segregated the
7 portfolio, there's more of a hedge, but there is still
8 a -- there's obviously a benefit of getting higher
9 yields like on your new investments and such. So
10 there is a, hey, he's right, there is a pause -- a
11 strengthening or an increase in net income.
12 MR. GLENN BUNSTON: If I could just
13 add to that. The investment section of the GRA does
14 speak to this specifically. Figure INV-9 talks about
15 the impact of 100 basis point increase in -- in
16 interest rates on the Basic line of business. This is
17 page 27, INV-9.
18 And so before we made the -- sorry, in
19 last years GRA the average impact of a 100 basis point
20 increase in interest rates was around $35 million.
21 And in this year's GRA, because of the changes to our
22 investment strategy, the average impact is $300,000.
23 So that is because of the new
24 investment strategy and because of the new -- the
25 better interest rate risk management from that

1 strategy.
2 MS. KATHLEEN MCCANDLESS: Thank you.
3 I was going to take the panel to that figure in a
4 moment. I will have some questions in a minute about
5 that.
6 I just would like to take the panel
7 back to that sentence that Mr. Cheng had stated, which
8 was:
9 "My initial guess is an increase in
10 interest rates should strengthen the
11 financial position of Basic."
12 My understanding is that Mr. Cheng is
13 saying here that the use of the naive forecast
14 effectively raises the bar for Basic to meet the
15 requirements for a satisfactory financial condition,
16 which is fine in a solvency-based DCAT.
17 Would you agree?
18 MR. LUKE JOHNSTON: I might have to
19 ask you to repeat that one.
20 MS. KATHLEEN MCCANDLESS: Essentially
21 my interpretation of what Mr. Cheng is saying here is
22 that the use of the naive forecast would effectively
23 raise the bar for Basic to meet the requirements for
24 satisfactory financial condition, which would be
25 appropriate in a solvency-based DCAT -- solvency-

1 focused DCAT.
2 MR. LUKE JOHNSTON: I do not get that
3 interpretation. I would hope that Mr. Cheng would
4 evaluate our base case on accepted actuarial practice
5 and not -- you know, and let us know if -- if he
6 thought that base case was biased in any way. So I'm
7 not -- I'm not getting that interpretation from --
8 from him.
9 If Mr. Cheng said, you know, a
10 reduction and collision frequency would strengthen
11 Basic's financial position. That would also be true,
12 but that wouldn't be a best estimate forecast either.
13 So I just -- I didn't interpret it that way.
14 MS. KATHLEEN MCCANDLESS: If we could
15 go to page 3 of this attachment.
16 The table here, Mr. Cheng provided a
17 high-level summary of the interest rate forecasting
18 practices of the five (5) largest insurers for which
19 he reviewed DCAT investigations in 2017, yes?
20 MR. LUKE JOHNSTON: That's right.
21 MS. KATHLEEN MCCANDLESS: And we see
22 from the table that a -- it's ranked -- the five (5)
23 insurers are ranked by the size of their annual
24 premium. So the third column in.
25 MR. LUKE JOHNSTON: I didn't hear that

1 last part, but I -- I see the ranking and I agree,
2 yes.
3 MS. KATHLEEN MCCANDLESS: And then we
4 also have the fourth column and is the ranking by
5 fixed income portfolio, yes?
6 MR. LUKE JOHNSTON: Correct.
7 MS. KATHLEEN MCCANDLESS: If we look
8 to insurers 1 and 2, which would be the two (2)
9 largest and then we go to the rightmost side of the
10 table under Interest Rate Forecast, we see that they
11 both chose to forecast rising interest rates, yes?
12 MR. LUKE JOHNSTON: So there is a --
13 there's a somewhat short term view. But again, not
14 surprising given that at the time of this report
15 interest rates were about as low as they've ever
16 really been. That would be the expectation, yes.
17 MS. KATHLEEN MCCANDLESS: And their
18 fixed income portfolios would be broadly comparable to
19 MPI, yes?
20 MR. LUKE JOHNSTON: That I don't -- I
21 don't know.
22 MS. KATHLEEN MCCANDLESS: In size
23 only.
24 MR. LUKE JOHNSTON: In -- possibly in
25 size and interest rate sensitivity, probably not,

1 because ours is designed to -- to match the
2 liabilities. I doubt theirs would have that same
3 profile, but possible.
4 MS. KATHLEEN MCCANDLESS: Just with
5 respect to size was...
6 MR. LUKE JOHNSTON: Size, yes. Dollar
7 size, yes.
8 But that is a diff -- a different -- if
9 I have a billion dollars and really short-term fixed
10 income, I'm not as concerned or sensitive to interest
11 rate movements as MPI, which has a very interest rate-
12 sensitive portfolio.
13 MS. KATHLEEN MCCANDLESS: Thank you.
14 And then the three (3) smaller
15 insurers, so insurers 3, 4 and 5 opted for a naive
16 forecast beyond any actual year-to-date movement, yes?
17 MR. LUKE JOHNSTON: That's right.
18 MS. KATHLEEN MCCANDLESS: Now, at the
19 bottom of page 2 in this IR response, so in the
20 attachment, pardon me, Mr. Cheng also says:
21 "Most insurers review what the large
22 chartered banks and the Conference
23 Board of Canada are forecasting in
24 terms of future interest rates and
25 making a subjective judgment."

1 Do you see that?
2 MR. LUKE JOHNSTON: I see that.
3 MS. KATHLEEN MCCANDLESS: Would you
4 say that this is what the Corporation does as well?
5 MR. LUKE JOHNSTON: Make a subjective
6 judgment? So we're definitely saying we don't know.
7 We're not pretending that we're expert interest rate
8 forecasters, but we're also not pretending that the
9 banks are very good at it either, because that's --
10 pretty clear that they're not.
11 What you will notice in the table that
12 you just looked at, that was showing insurers by size,
13 the -- you can see that they are not forecasting 100,
14 200 basis point increases in interest rates like some
15 of the -- the standard interest rate forecasts were
16 doing a few years ago.
17 There is some near term changes and I
18 think in the near term, that those -- some of the
19 predictions are valid because we know a lot of, you
20 know, things better in a three (3) to six (6) month
21 period than we would three (3) years from now.
22 But you can see beyond a quarter point
23 or so, we're generally talking very little change by
24 any of these com0panies.
25 MPI's response to this would be from

1 pricing perspective, yes, we're quite willing to
2 update for these near term changes, but doesn't appear
3 anybody else is willing to bank on huge increases over
4 the long term, it would be the same.
5 MS. KATHLEEN MCCANDLESS: Just so I
6 understand your evidence then, Mr. Johnston, it is
7 that the bank forecasts are of some relevance to the
8 Corporation?
9 MR. GLENN BUNSTON: Maybe I could just
10 add that we do collect the forecasts from -- the
11 interest rate forecasts from the banks, we do review
12 that information.
13 And you know, we've used our judgment
14 to rely on a naive forecast because of the poor
15 forecasting history of the banks. But there is no
16 judgment in terms of the -- setting the naive
17 forecast. It is what the current rate is.
18 And I would also say from this -- the
19 takeaway that I have from this chart here shows that
20 three (3) out of these five (5) financial institutions
21 have forecasted no change in interest rates, they're
22 using the naive forecast.
23 So, regardless of their size, 3 out of
24 the 5 are expecting no change or forecasting no change
25 and the other two (2), a modest increase in interest

1 rates.
2 MS. KATHLEEN MCCANDLESS: Thank you.
3 Mr. Chair, just to let you know, I'm
4 maybe five (5) more minutes of this area. Thank you.
5 So is the Corporation aware of any
6 reason why the Canadian chartered banks would prepare
7 their interest rate forecasts on anything other than a
8 best estimate basis?
9 MR. GLENN BUNSTON: No, we're not.
10 Our understanding of the methodology followed by the
11 chartered banks is basically mean reversion over a
12 relatively short period of time. And again, you can
13 see from the chart of their performance that over the
14 last ten (10) years that that has not performed very
15 well.
16 We did have a presentation from the
17 Deputy Chief of Commerce from the Bank of Montreal
18 recently and he did speak to this point, and he
19 acknowledged the poor performance of -- of their
20 forecasting history and the fact that they're not
21 happy with it and it causes issues for them internally
22 within the bank.
23 So I don't think -- I think they want
24 to get it right, but they -- we can clearly see they
25 have -- have not got it right.

1 MS. KATHLEEN MCCANDLESS: And as the
2 Corporation would be aware, the issue with respect to
3 interest rate forecasting in this GRA is any change in
4 circumstances that would justify deviation from the
5 use of the 50-50 forecast, which was approved by the
6 Board in last year's Order, yes?
7 MR. STEVE SCARFONE: I just asked if
8 they understood the question, because I didn't.
9 Maybe you could rephrase it?
10 MS. KATHLEEN MCCANDLESS: I'm simply
11 reiterating what's in the issues list, so we can pull
12 up the issues list if the panel needs it but....
13 MR. LUKE JOHNSTON: I would just like
14 to hear it again. I want to make sure I got it.
15
16 CONTINUED BY MS. KATHLEEN MCCANDLESS:
17 MS. KATHLEEN MCCANDLESS: If we turn
18 to -- it's Order 82/'18, there's an issues list at the
19 end of the Order.
20 If we -- it's issue 4(d), which is
21 justification for the use of the naive forecast for
22 ratesetting and target capital purposes. In
23 particular, any change in circumstances, since the
24 issuance of Order 130/'17 that would warrant the use
25 of the naive interest rate forecast.

1 And I'm simply putting that on the
2 record so that the panel's aware of the basis for my
3 next question, which is apart from what we've
4 discussed thus far, what change in circumstances or
5 new evidence is the Corporation aware of that would
6 support its position in the use of the naive interest
7 rate forecast?
8
9 (BRIEF PAUSE)
10
11 MR. LUKE JOHNSTON: I'm struggling
12 with the right answer to -- like, how to give this
13 answer, but like our team is -- is responsible for all
14 the forecasting, not -- not the banks.
15 I'm accountable to -- to the results of
16 the Corporation. Naive is the best estimate, in my
17 view, and maybe we didn't think that three (3) or four
18 (4) years ago in light of where we were.
19 But given our -- if I was talking to my
20 Board, and again I'm accountable for the results,
21 naive is the best estimate and the willingness of MPI
22 to update that forecast for pricing purposes as late
23 as possible further reduces that volatility for our
24 board and government. But that -- that's really all I
25 can say.

1 MR. MARK GIESBRECHT: Additionally we
2 do have new members of our executive team that bring a
3 new outlook to this topic.
4 So while there is not really any
5 significant changes maybe in the environment of the
6 marketplace, there are executives that have a
7 different viewpoint and that support which -- what Mr.
8 Johnston spoke to in terms of best estimates.
9 MS. KATHLEEN MCCANDLESS: So does the
10 fact that an estimate proves to be wrong necessarily
11 mean that it was not a best estimate?
12 MR. MARK GIESBRECHT: The best
13 estimate, you know, it can be described in different
14 ways depending on who's asked and what the definition
15 of that is.
16 What it boils down to is that, yes,
17 definitely it could be wrong, even though it was a
18 consensus best estimate, and the reality is no one is
19 going to get these things right 100 percent of the
20 time and actually even what we've proven to see is any
21 of the time. And so best estimate based on academics
22 and theory quite often turn out radically different
23 than reality.
24 MR. GLENN BUNSTON: Maybe if I could
25 just add to that.

1 We -- there was an IR on this, CAC-1-7.
2 And part B, and the question was: What is the
3 definition of a best estimate?
4 Our response was "it means an unbiased
5 forecast," which again is the rest -- the reason that
6 we're putting forward the naive as the best estimate
7 at this time.
8 MR. LUKE JOHNSTON: Just sort of my
9 struggle with this particular issue, is why is
10 everybody thinking that we need to use this rising
11 interest rate forecast? What evidence -- and like, I
12 know that the onus is on us to -- to support our
13 forecast, but what evidence do other parties have that
14 I should be using this forecast, and if I'm reporting
15 to my board and saying you know what, we should really
16 use this standard interest rate forecast and I showed
17 them that graph and they'd be like what do you mean,
18 why -- why would you recommend that?
19 I have no support for that other
20 forecast, I have nothing to show that it's a good
21 forecast. So why would I recommend that to our Board?
22 So like, I -- if I had something great
23 to show you that said interest rates would go up and
24 it's a better estimate then -- then I would consider
25 bringing that here but I don't have that.

1 MS. KATHLEEN MCCANDLESS: Thank you.
2 Kirsten, could you please turn to page
3 27 of the investment section under 2.3, just briefly
4 in this section of the GRA the Corporation stated that
5 interest rate forecasting risk is a significant
6 concern for MPI as an accurate forecasts have made --
7 have had material impacts on the financial results of
8 the Basic line of business.
9 Would the Corporation agree that the
10 capital transfers from competitive lines and into
11 Basic, which have been undertaken by the Corporation
12 over recent years, have largely been made necessary --
13 been made necessary by interest rate forecasting
14 error?
15 MR. LUKE JOHNSTON: A large chunk of
16 them, and just to be fair to all -- all parties
17 involved, the way we calculated the losses from
18 interest rates was really just to say here is what --
19 here is the interest rates were used in pricing.
20 Here's what they would've been if we would've just use
21 naive and calculate the premium difference.
22 I'm not suggesting that anybody would
23 ever get that perfectly right every time. But in this
24 particular case, especially in the years where SIRF
25 was considered, we really took a leap beyond what

1 current rates would've been and that cost us a lot of
2 -- a lot of money.
3 MS. KATHLEEN MCCANDLESS: Thank you.
4 If we scroll up to the top of the page, this was the
5 figure that, Mr. Bunston, you spoke about a moment ago
6 and explained how -- how this figure shows basic
7 sensitivity to interest rate risk.
8 So my question is: Now does the fact
9 that Basic is now much less sensitive to interest rate
10 risk lessen the Corporation's concern over the choice
11 of the interest rate forecasting approach?
12 MR. LUKE JOHNSTON: This is actually a
13 good -- a good -- very good question. I touched on it
14 briefly yesterday.
15 So these -- the move to a segregated
16 portfolio will eliminate this issue we had before with
17 how investment income was allocated to different lines
18 of business and there could be winners and losers from
19 -- based on how interest rates moved.
20 So by segmenting a separate Basic
21 claims portfolio and dollar duration matching that
22 portfolio, once we have the claim liabilities we can,
23 not perfectly, but neutralize the impact of interest
24 rates better than the results would've been in the
25 past.

1 So that -- for that piece, absolutely
2 we've reduced interest rate risk considerably and that
3 shows up in -- in the Mercer report as well.
4 On the pricing side, there is no
5 liabilities yet, you're just setting out a price there
6 for policies, and if you get that wrong and it's, say,
7 you know, a $20 million impact, there is no hedge to
8 that. We just put the wrong price out on -- on the
9 market based on a biased or flawed assumption, or
10 maybe not, maybe just bad luck. That we can't hedge
11 ourselves from.
12 So my example I used yesterday, if
13 naive was a $1000 rate and we want to be really
14 optimistic and say, you know, rate should only be $950
15 because interest rates are going to go up, then it
16 just stays the same, well we've lost $50 -- we
17 mispriced by $50 a policy and there's no getting that
18 back. It's -- it's -- we just priced wrong.
19 Does that make sense? We can't -- we
20 can't hedge that piece.
21 MS. KATHLEEN MCCANDLESS: Depending on
22 what the forecast is, though, you could be wrong on
23 either the upside or the downside, yes?
24 MR. LUKE JOHNSTON: And that part
25 we're definitely willing to accept based on the

1 current rate.

2 So there's lots -- although we don't

3 have historical forecasts from the banks, there is

4 decades and decades worth of how interest rates have

5 moved from their current levels. And that's what we

6 modelled in the DCAT, you know, what -- what's the

7 probability if you go up 50, down 50 from its current

8 level? You know, what protection do we need from

9 that?

10 That can be modelled and put in the

11 DCAT and -- and tested. How do we vary from this

12 outside external number that's just placed 100 basis

13 points higher than current day's rates, like, how do

14 we measure the risk of that? That just seems to be a

15 really high -- like already biased up number that it's

16 very unlikely that we're going to do better than that

17 number.

18 So we've essentially biased our

19 forecast, increasing the likelihood that we're going

20 to have poor results as opposed to neutral.

21 MR. MARK GIESBRECHT: And just adding

22 to that, so while it can go either direction, just

23 putting it in very simple terms, we don't want to

24 count our eggs before they hatch. Rates, they may

25 rise, they may fall. If we expect that they're going

1 to rise and that does not take place, but we price
2 with that assumption, then we're going to have that
3 loss and there's no way to recover that.
4 So again, we don't want to count those
5 eggs before they hatch. Simply put.
6 MS. KATHLEEN MCCANDLESS: Okay, this
7 will be my last two (2) questions. Kristen, if you
8 could please just pull up Figure 1 from page 3 of PUB-
9 MPI-2-39.
10 So figure 1 in this IR response shows
11 movement in the Government of Canada 10-year bond rate
12 -- bond yield and the Bank of Canada overnight rate
13 over about the last two (2) years. Yes?
14 MR. GLENN BUNSTON: Yes, that's
15 correct.
16 MS. KATHLEEN MCCANDLESS: And I don't
17 know if it's Mr. Bunston or Mr. Johnston that will --
18 or Mr. Giesbrecht that would answer this question, but
19 from among you one could agree that there is a clear
20 predominantly upward pattern to both lines on this
21 graph, yes?
22 MR. GLENN BUNSTON: If you just look
23 at it in general, both have moved upwards, but it
24 would say that it's not always been in lockstep and
25 that the yield on the Canada 10-year bond in some

1 cases has gone up and then come back down, so there's
2 not been a one-to-one relationship between the two
3 (2).
4 MS. KATHLEEN MCCANDLESS: Yes.
5 Now, would you agree that there are
6 still reported expectations in the business press,
7 including from the Bank of Canada, of more increases
8 to come in the overnight rate?
9 MR. GLENN BUNSTON: Yes, I think the
10 expectation is that the Bank of Canada will continue
11 to increase the overnight rate gradually over the next
12 twelve (12) months.
13 MS. KATHLEEN MCCANDLESS: So in the
14 face of this information, does the Corporation believe
15 that it is reasonable at this time to assume that
16 interest rates will not rise over the full five-year
17 forecast period of this GRA? From February 20 --
18 2018.
19 MR. GLENN BUNSTON: Well, there were
20 other IRs asked on this topic, CAC-2-1 was one (1) of
21 those where we provided data going back further than
22 this. This is about a two-year period.
23 And so we pointed out that there were
24 many periods of time, as recently as 2010, when the
25 overnight rate increased and the yield on the

1 Government of Canada bond fell and the difference
2 between the two (2) can be as large as 400 basis
3 points.
4 So there is -- there is no guarantee
5 that a rising overnight rate will translate over the
6 outlook period, the rate setting period of 1 to 1 1/2
7 years into an increase in the yield on the Canada 10-
8 year bond.
9 MR. LUKE JOHNSTON: And again, we've -
10 - we've been talking about this story for a long time
11 now, about the, you know, for sure a rise in interest
12 rates that's going to happen. Why? Why would we,
13 when it happens, let's lower rates when -- until then,
14 I don't see why we would -- we would do that.
15 So again, to the -- call it whatever
16 you want, counting your eggs before they hatch,
17 whatever, but I just don't see why we would continue
18 to make this bet -- updated based on the lat -- latest
19 rates for sure. If we get a great big increase in
20 interest rates, let's update the rates next year
21 immediately, but I don't see any certainty that that's
22 going to happen based on, you know, my experience
23 anyways.
24 MS. KATHLEEN MCCANDLESS: So just to
25 clarify, the question was with respect to at this

1 point.
2 So now, going forward, would it not be
3 reasonable to assume that interest rates will rise
4 based on what is in figure 1 before you?
5 MR. STEVE SCARFONE: Ms. McCandless,
6 just to clarify, are you talking about the overnight
7 rate or the 10-year bond yield?
8 MS. KATHLEEN MCCANDLESS: Ten-year
9 bond yield, but since February 2018.
10 MR. LUKE JOHNSTON: I would continue
11 to suggest that we should update our rate indication
12 based on the latest actuals, but I would not recommend
13 making another bet on rising interest rates. A lot
14 can change, just as fast as this change is an upper
15 direction, it can go in the other direction.
16 You know, we've talked -- if you put
17 parallels to other forecasts we makes, so say we have
18 a road safety initiative and we're expecting it's
19 going to reduce claims or whatever, do we make the bet
20 on that before it happens, or do we wait until we
21 actually see it in evidence and then book that into
22 the rates.
23 We're saying let's see it happen and
24 let's stop making this bet, which has turned out bad
25 pretty much every single time for the last seven (7)

1 years.

2 Maybe we had one (1) or two (2) years

3 were it wasn't too bad, but I got at least 160 million

4 reasons to not like it.

5 MS. KATHLEEN MCCANDLESS: Thank you.

6 I apologize for my inaccurate estimate

7 of time, but I am concluding now the questioning in

8 this area. Thank you.

9 THE CHAIRPERSON: Thank you.

10 We will adjourn for an hour. Thank

11 you.

12

13 --- Upon recessing at 12:19 p.m.

14 --- Upon resuming at 1:27 p.m.

15

16 THE CHAIRPERSON: Good afternoon. Ms.

17 McCandless...?

18

19 CONTINUED BY MS. KATHLEEN MCCANDLESS:

20 MS. KATHLEEN MCCANDLESS: Thank you.

21 So for to the panel, I'm now going to move into some

22 questions in the area of the investment portfolio and

23 investment perform -- income.

24 And, of course, we've heard from the

25 panel that as a result of the recently completed ALM

1 study the Corporation intends to incorporate the
2 results and implement the five (5) new investment
3 portfolios which are Basic claims, RSR, employee
4 future benefits, SRE and extension, yes?
5 MR. GLENN BUNSTON: Yes, that's
6 correct.
7 MS. KATHLEEN MCCANDLESS: And if we
8 could go to slide 12 of MPI Exhibit Number 21, that
9 was the presentation from this morning.
10
11 (BRIEF PAUSE)
12
13 MS. KATHLEEN MCCANDLESS: So for the
14 Basic claims the target asset mix we see 100 percent
15 in total fixed income securities, yes?
16 MR. GLENN BUNSTON: Correct.
17 MS. KATHLEEN MCCANDLESS: And the Basic
18 portfolio is designed to mitigate interest rate risk.
19 So that's 100 percent fixed income with no growth
20 assets, yes?
21 MR. GLENN BUNSTON: That's correct.
22 MS. KATHLEEN MCCANDLESS: And I
23 understand that -- that transition is expected to
24 occur at the end of Q4 in 2018/'19?
25 MR. GLENN BUNSTON: Right. It -- it's

1 expected to occur -- occur in the first quarter of our
2 next fiscal year in 2019/'20.
3 MS. KATHLEEN MCCANDLESS: Okay. Now
4 if we could go to figure INV-8, that's page 25 of the
5 investment section.
6
7 (BRIEF PAUSE)
8
9 MS. KATHLEEN MCCANDLESS: So this is a
10 table depicting the ALM impact on Basic line of
11 business, yes?
12 MR. GLENN BUNSTON: Yes.
13 MS. KATHLEEN MCCANDLESS: And as of
14 the end of 2018/'19, if we see at line 4, Basic net
15 income is forecasted to increase by $95 million, yes?
16 MR. GLENN BUNSTON: That's right.
17 MS. KATHLEEN MCCANDLESS: And so I
18 understand this is largely due to the result of
19 realization of capital gains that were included in --
20 in accumulated other comprehensive income on equity
21 assets?
22 MR. GLENN BUNSTON: That's right.
23 MS. KATHLEEN MCCANDLESS: Then if we
24 can go to figure INV-38, that's page 69 of the
25 investment section. And if we scroll down to the

1 bottom. So this is 2018 GRA investment income for
2 Basic.
3 So the second column in is the -- if
4 you scroll to the top -- sorry, Kristen, to make you
5 jump around -- we see 2018/'19 forecast. And then at
6 the very bottom of the page at line 31 we see for the
7 Basic line of business total -- this is page 68,
8 pardon me, we should keep going to page 69 and to the
9 bottom.
10
11 (BRIEF PAUSE)
12
13 MS. KATHLEEN MCCANDLESS: Can we
14 scroll up to the top of the page just for a minute.
15 So this 40, we should be going to 38, pardon me. I
16 think the page numbers may be different than what I've
17 got. Right.
18 Okay, so at the bottom there for Basic
19 line of business total we see $191.8 million for
20 Basic, yes?
21 MR. GLENN BUNSTON: Yes.
22 MS. KATHLEEN MCCANDLESS: And the
23 second quarter financial report was filed today as MPI
24 Exhibit Number 24, and perhaps we could pull up page 6
25 of that exhibit. If we could scroll down, keep going.

1 (BRIEF PAUSE)

2

3 MS. KATHLEEN MCCANDLESS: So if we
4 look at investment income on the far left-hand side of
5 the table -- Kristen, if you could please scroll up --
6 we see for the three (3) months ended August 31, 2018
7 and so that would be for the end of the second
8 quarter. Yes?

9 MR. GLENN BUNSTON: Correct.

10 MS. KATHLEEN MCCANDLESS: For
11 investment income, we see $41.2 million for the three
12 (3) months ended August 31, 2018?

13 MR. GLENN BUNSTON: Yes, that's
14 correct.

15 MS. KATHLEEN MCCANDLESS: And then for
16 the six (6) months ended August 31, 2018 that's 70
17 million, yes?

18 MR. GLENN BUNSTON: Correct.

19 MS. KATHLEEN MCCANDLESS: And this is
20 on a corporate level?

21 MR. GLENN BUNSTON: I believe so, yes.

22 MS. KATHLEEN MCCANDLESS: So with
23 respect to the Basic line of business approximately 86
24 percent of that investment income would be allocated
25 to Basic, is that right?

1 MR. GLENN BUNSTON: About 85 percent,
2 yep.
3 MS. KATHLEEN MCCANDLESS: So, rough
4 math approximately $60 million for the six (6) months
5 ended August 31, 2018, yes?
6 MR. GLENN BUNSTON: Sounds about
7 right.
8 MS. KATHLEEN MCCANDLESS: Thank you.
9 So halfway through the fiscal year then we saw that
10 the forecast for 2018/'19 was 191.8 million. Based on
11 these second quarter financial results, how are we
12 tracking for meeting that forecast?
13 MR. GLENN BUNSTON: Well, a
14 significant portion of that $191 million was the
15 realization of equity gains, as you had mentioned,
16 that hasn't happened yet. It -- that likely will
17 happen in the last quarter of the fiscal year, when we
18 get the global equity manager selected and in place
19 and we will liquidate our US equities and significant
20 portion of our Canadian equities and, of course,
21 anything can happen between now and then. So the
22 unrealized gain could increase or decrease between now
23 and then.
24 So that represents I think about $95
25 million of the expected net income. And so...

1 (BRIEF PAUSE)

2

3 MR. MARK GIESBRECHT: Yes, so I'll
4 just jump in here and to speak to our investment
5 income through six (6) months and how we're tracking
6 to -- to plan.

7 So we -- we are ahead of where we
8 expected to be at this point in the year. Part of
9 that did come from some realized gains that we had
10 triggered already. We know there's a big portion to
11 come later this year or early next year but we have
12 realized about $17 million through the sale of a
13 portion of our Canadian equities and so that has --
14 that's a one-time gain that is, you know, helping --
15 can of push us over our -- our prior year levels.

16 One (1) thing to keep in mind when
17 looking at our investment income is there is interest
18 rate impacts based on where the market moves in our --
19 our -- what that does to our unrealized gains on our
20 bond portfolio.

21 And so just looking at that impact, we
22 see that relative to last year was $18 million lower
23 as a result, and you won't see that in the -- in the
24 financial report, but I'm just looking at some of our
25 internal reporting and so that is playing an impact

1 into that -- that number, but we are tracking in
2 general to how we had expected if we normalize for
3 these market impacts and do expect to be close to that
4 forecasted number.
5 MS. KATHLEEN MCCANDLESS: Thank you.
6 What is the outlook for net income for Basic based on
7 the Q2 results.
8 MR. MARK GIESBRECHT: Yeah, so we are
9 expecting to -- sorry, I'm thinking consolidated
10 numbers in my head. We -- in terms of Basic we are
11 tracking ahead of our plan. I don't have with me
12 exact forecasted number -- if you are looking for
13 exact forecast. However, we are -- have -- had
14 experiencing favourable claims this year. And so we
15 are on track to what we had expected.
16 MS. KATHLEEN MCCANDLESS: Thank you.
17 Kristen, could you please pull up INV-6.6. It should
18 be page 48 of the investment section.
19
20 (BRIEF PAUSE)
21
22 MS. KATHLEEN MCCANDLESS: No, you'll
23 have to scroll up for whatever reason our page
24 references are different. There we go.
25 Okay. So this section of the filing

1 relates to the turnover rate -- ratio. As programed
2 in the model indicates how often equity holdings are
3 sold and based on what's written here a 20 percent
4 turnover ratio was used for 2018/'19.
5 After separation of asset classes in
6 the financial model, the forecasted turnover rate will
7 be 0 percent as it is expected that equity holdings
8 will be held in pooled funds, yes?
9 MR. GLENN BUNSTON: Yes, that's what
10 the section says.
11 MS. KATHLEEN MCCANDLESS: Is there a
12 forecasted turnover used in each individual portfolio
13 for the pooled funds?
14 MR. GLENN BUNSTON: Well, there may be
15 turnover within the pooled fund, but those gains or
16 losses won't be distributed to -- to the unitholders
17 so the -- it would only be sales of the actual units
18 that would trigger a gain or loss from MPI's
19 accounting perspective.
20 So a turnover within the fund would
21 cause the unit price to increase which would cause our
22 -- our market value to increase, but wouldn't trigger
23 a realized gain from MPI's perspective.
24 MS. KATHLEEN MCCANDLESS: Okay.
25 MR. GLENN BUNSTON: So sorry, to

1 answer your question directly, we don't forecast the
2 turnover within the pooled funds because it's not
3 relevant from our accounting perspective.
4 MS. KATHLEEN MCCANDLESS: Thank you.
5
6 (BRIEF PAUSE)
7
8 MS. KATHLEEN MCCANDLESS: Could you
9 please go to figure INV-27, Kristen, thank you.
10 So this is a real estate summary table
11 and at the bottom at line 8, we see investment
12 property income for 2018/'19 at $4.23 million. And
13 then it's forecasted to drop to $642,000 the following
14 year in 2019/'20, yes?
15 MR. GLENN BUNSTON: Correct.
16 MS. KATHLEEN MCCANDLESS: And so what
17 is the reason for the significant decrease there?
18 MR. GLENN BUNSTON: Well, our
19 allocation to real estate is going to be dropping
20 significantly going forward.
21 MS. KATHLEEN MCCANDLESS: Now,
22 Kristen, could you please pull up PUB-MPI-1-24, and at
23 question (b) the Corporation was asked to explain what
24 options were considered to minimize transactional
25 costs related to the portfolio segregation, yes?

1 MR. GLENN BUNSTON: Yes, that's
2 correct.
3 MS. KATHLEEN MCCANDLESS: At item (b)
4 the response. The Corporation indicated that it would
5 fund the new asset classes, including private debt
6 purchases using MUSH bond maturities. Yes?
7 MR. GLENN BUNSTON: That's correct.
8 MS. KATHLEEN MCCANDLESS: And MUSH
9 bonds and redemptions from the Greystone Real Estate
10 Fund are estimated to be 52 percent of the withdrawals
11 required to segregate the assets into the five (5) new
12 portfolios, yes?
13 MR. GLENN BUNSTON: Yes, that's
14 right.
15 MS. KATHLEEN MCCANDLESS: So in follow-
16 up to this IR, PUB-MPI-2-13, the Corporation was asked
17 at question (c) how it intends to find the remaining
18 48 percent or assets required to segregate the
19 portfolio and the expected transactional impacts, yes?
20 MR. GLENN BUNSTON: Yes.
21 MS. KATHLEEN MCCANDLESS: And the
22 response at (c), the Corporation indicated that it is
23 estimated that the remaining 48 percent of the new
24 investments will be funded by selling 55 percent of
25 Canadian equities, 100 percent of US equities and 23

1 percent of infrastructure. Yes?
2 MR. GLENN BUNSTON: That's correct.
3 MS. KATHLEEN MCCANDLESS: And that a
4 transition manager will be engaged in order to oversee
5 the transition, yes?
6 MR. GLENN BUNSTON: That's the
7 expectation, yes.
8 MS. KATHLEEN MCCANDLESS: How long is
9 it expected for the -- this transition to take?
10 MR. GLENN BUNSTON: So on the public
11 equities it should be very short. They're -- they're
12 quite liquid and so we can implement that change as
13 soon as the global equity manager is selected and
14 approved by our investment committee and the Minister
15 of Finance. We expect that that will either happen in
16 the -- toward the very end of this fiscal year or the
17 very beginning of the next fiscal year. I would say
18 that that can be done in a matter of days, maybe --
19 maybe a week.
20 On the infrastructure because that's a
21 private investment, that's a little more difficult and
22 so we'll have to work with some of the -- the general
23 partners that manage our investments to determine if
24 they have other investors who are willing to or
25 interested in purchasing our positions. So we'll have

1 to have discussions with them so that could take
2 longer, but optimistically that could take a quarter
3 maybe.
4 MS. KATHLEEN MCCANDLESS: Okay, thank
5 you. At PUB-MPI-2-17 at question (a), the Corporation
6 was asked why the separation of assets into unique
7 portfolios hesitates the triggering of the gains on
8 the portfolio. Yes?
9 MR. GLENN BUNSTON: That's right,
10 yeah.
11 MS. KATHLEEN MCCANDLESS: And the
12 response at (a) was that 70 percent of equity holdings
13 were liquidated to implement the new investment
14 strategy causing gains to be realized, yes?
15 MR. GLENN BUNSTON: Correct.
16 MS. KATHLEEN MCCANDLESS: And it
17 appears that the remaining 30 percent will be
18 transitioned to the pooled funds which will cause a
19 gain to be realized as well, yes?
20 MR. GLENN BUNSTON: That's right.
21 MS. KATHLEEN MCCANDLESS: Are the
22 positions going to be sold to buy units in pooled
23 funds?
24 MR. GLENN BUNSTON: That remains to be
25 determined. We may be able to do a in-kind transfer

1 where the securities are transferred into the pooled
2 fund and we receive units in the pooled fund in
3 exchange for the securities, but, we anticipate that
4 we will transition in to pooled funds because our
5 allocations within each of the four (4) portfolios
6 that have equities will be quite small and, therefore,
7 I think there was another IR on this that the dollar
8 amounts would not meet the minimum required to qualify
9 for segregated accounts with our managers and so,
10 therefore, pooled funds are -- are necessary.
11 MS. KATHLEEN MCCANDLESS: Okay, thank
12 you. If we scroll down to figure (c), we see that
13 approximately $18 million in gains are realized as of
14 July 2018?
15 MR. GLENN BUNSTON: Yes, that's right.
16 MS. KATHLEEN MCCANDLESS: And when
17 does the Corporation expect to complete the
18 transition?
19 MR. GLENN BUNSTON: Within the equity
20 portfolio?
21 MS. KATHLEEN MCCANDLESS: Yes.
22 MR. GLENN BUNSTON: Like I said, as
23 soon as the search for the global equity manager is
24 complete and the manager's approved then we'll move to
25 begin the transition. So either -- either February or

1 March of 2019.
2 MS. KATHLEEN MCCANDLESS: And we
3 understand from the presentation this morning that the
4 manager search is underway?
5 MR. GLENN BUNSTON: It is, yes.
6 MS. KATHLEEN MCCANDLESS: Thank you.
7 If we could please go to figure INV-14.
8 Now, this is a figure depicting the
9 total marketable bond summary table broken down by
10 fiscal year. At -- at the top of the figure we see...
11 -- just bear with me for one moment. I've got a
12 different reference up.
13
14 (BRIEF PAUSE)
15
16 MS. KATHLEEN MCCANDLESS: All right,
17 with respect to line 6, with the separation into
18 unique portfolios it's expected that total marketable
19 bonds will make up 67 percent of the portfolio in
20 2018/'19, yes?
21 MR. GLENN BUNSTON: Yes. So this is
22 for the Basic claims portfolio and the RSR portfolios
23 combined together, which make up the Basic line of
24 business.
25 MS. KATHLEEN MCCANDLESS: Okay, thank

1 you. And they will increase to 75.3 percent for up to
2 2022/'23, yes?
3 MR. GLENN BUNSTON: That's right, yes.
4 MS. KATHLEEN MCCANDLESS: Thank you.
5 Now, f we can turn to figure INV-2. Now, his is with
6 respect to the Basic line of business investment
7 income. We see that for the 2018/'19 forecast budget,
8 at line 6, that interest income will increase as a
9 result of the change from approximately $61 million in
10 the current year through to 73.4 when fully
11 implemented in 2019/'20, yes?
12 MR. GLENN BUNSTON: Yes, that's right.
13 MS. KATHLEEN MCCANDLESS: And at line
14 13 dividend income is expected to be less than a third
15 of what was previously earned; is that right?
16 MR. GLENN BUNSTON: Yes, that's right.
17 MS. KATHLEEN MCCANDLESS: And is this
18 due to fewer equity investments over all?
19 MR. GLENN BUNSTON: Yes, the
20 allocation to equities within the Basic line of
21 business will be decreasing within the Basic claims
22 portfolio, which is by far the biggest portion of the
23 Basic line of business will be zero, and within the
24 RSR portfolio I believe it's 25 percent.
25 MS. KATHLEEN MCCANDLESS: Now, the

1 2018/'19 fiscal year applies a methodology consistent
2 with the prior year's forecast so net equity
3 allocation formula?
4 MR. GLENN BUNSTON: Sorry, could you
5 repeat that question?
6 MS. KATHLEEN MCCANDLESS: For the
7 2018/'19 fiscal year, it applies a methodology
8 consistent with the prior year's forecast, so, a net
9 equity allocation formula?
10 MR. GLENN BUNSTON: That's right.
11 Investment income is allocated in a current year as it
12 has been in the past.
13 MS. KATHLEEN MCCANDLESS: And for
14 2018/'19 MPI's proposing to allocate investment income
15 based on the net equity related to each portfolio?
16 MR. GLENN BUNSTON: The net equity of
17 each line of business. Yes.
18 MS. KATHLEEN MCCANDLESS: And,
19 Kristen, is two (2) steps ahead of me again. So at
20 figure INV-31, this is a line of business allocation.
21 Based on this methodology we see at line 17 that MPI
22 is allocating 86.28 percent of investment income this
23 year?
24 MR. GLENN BUNSTON: That's right,
25 86.28 percent of the investment income is allocated to

1 the Basic line of business, yes.
2 MS. KATHLEEN MCCANDLESS: And
3 allocating $116.3 million of 134.8 million of
4 corporate investment income at line 18, yes?
5 MR. GLENN BUNSTON: That's correct.
6 MS. KATHLEEN MCCANDLESS: I understand
7 this will no longer be required next year with the
8 tracking of separate portfolios; is that right?
9 MR. GLENN BUNSTON: That's right.
10 There would no -- be no need for allocations because
11 each portfolio will be directly matched to a line of
12 business and so this will not be necessary.
13 MS. KATHLEEN MCCANDLESS: Thank you.
14 I also understand the Corporation plans to track
15 investment returns through something called the
16 support portfolio asset management?
17 MR. GLENN BUNSTON: We have investment
18 -- an investment accounting system, which we will
19 continue to use to track the -- our investment
20 holdings. We were going to have to make significant
21 changes to it to accommodate the new portfolios that's
22 underway right now, but, yes, we'll continue to use
23 that system going forward.
24 MS. KATHLEEN MCCANDLESS: Thank you.
25 Could we please pull up PUB-MPI-2-13. There's a table

1 at the second page.
2 And this is a summary of Basic line of
3 business investment income as a proportion of
4 corporate investment income. At line 30 of the table
5 we see that based on this new methodology for the
6 forecast 2019/'20, under Basic forecast MPI will be
7 allocating approximately $81.2 million of investment
8 income?
9 MR. GLENN BUNSTON: In '20 -- '19/'20
10 the table shows $82.1 million for Basic investment
11 income.
12 MS. KATHLEEN MCCANDLESS: Yes, or 87
13 percent as depicted on the percentage column?
14 MR. GLENN BUNSTON: That's right.
15 MS. KATHLEEN MCCANDLESS: Thank you.
16 Does this negate the need for an allocation of
17 investment income?
18 MR. GLENN BUNSTON: Right. As I said
19 previously, we won't be allocating investment income
20 because we'll have a portfolio that's dedicated to the
21 Basic line of business.
22 MS. KATHLEEN MCCANDLESS: With respect
23 to the Basic share of pension assets, how will they be
24 allocated?
25 MR. GLENN BUNSTON: So my

1 understanding is that pension will be allocated based
2 on employees who are directly working on each line of
3 business.
4 MS. KATHLEEN MCCANDLESS: And do you
5 know what that percentage will be?
6 MR. GLENN BUNSTON: Sorry, I don't
7 know the number off the top of my head. We will get
8 back to you with that.
9 MS. KATHLEEN MCCANDLESS: If you can
10 provide that information by way of undertaking that
11 would be appreciated. Thank you.
12 MR. GLENN BUNSTON: Certainly.
13 MS. KATHLEEN MCCANDLESS: Yes, it will
14 be the proportion of the pension benefit portfolio
15 based on the relative size of the payroll to be
16 allocated to Basic.
17
18 --- UNDERTAKING NO. 2: MPI to provide the
19 proportion of the pension
20 benefit portfolio based on
21 the relative size of the
22 payroll to be allocated to
23 Basic
24
25 CONTINUED BY MS. KATHLEEN MCCANDLESS:

1 MS. KATHLEEN MCCANDLESS: So in this
2 figure 2 here at page 2 of PUB-MPI-2-13, we see that
3 the Basic line of business is not forecasted to be
4 receiving a share of realized gains or losses. Yes?
5 MR. GLENN BUNSTON: Sorry, what was
6 the line reference again?
7 MS. KATHLEEN MCCANDLESS: Bear with me
8 for one (1) moment. It's line 18 through 20.
9
10 (BRIEF PAUSE)
11
12 MR. GLENN BUNSTON: Could you just
13 repeat your question for me, please.
14 MS. KATHLEEN MCCANDLESS: It appears
15 that the Basic line of business is not being
16 forecasted to receive a share of realized gains or
17 losses, can you explain?
18 MR. GLENN BUNSTON: Yes. So, for --
19 in relation to the equity portfolios, as I mentioned,
20 it's anticipated that our investments will be in
21 pooled funds, and therefore, as I mentioned earlier,
22 for -- for accounting purposes we're not planning to
23 sell any units and, therefore, there would be no -- no
24 realized gains triggered because we need a sale of the
25 units to trigger the gains.

1 So while there may be trading within
2 the pooled fund that -- that wouldn't cause a realized
3 gain from an accounting perspective for MPI.
4 MS. KATHLEEN MCCANDLESS: There are
5 forecasted future gains on equities, yes?
6 MR. GLENN BUNSTON: While we forecast
7 our equity investments to grow, we forecast the total
8 rate of return of 7.2 percent, but from an accounting
9 perspective, we only can realize gains when there is
10 turnover. So when there's a sale of the -- of the
11 either the security or the units, so in this case
12 we're not forecasting a sale of the units.
13 MS. KATHLEEN MCCANDLESS: And so all
14 the unrealized gains are in AOCI?
15 MR. GLENN BUNSTON: Yes, that's right.
16 MS. KATHLEEN MCCANDLESS: Thank you.
17 If we look to the far right column here on this figure
18 2, at line 26 there is an allocation of investment
19 fees paid. It appears that Basic is being charged 47
20 percent of investment expenses, is that right?
21 MR. GLENN BUNSTON: Yes, that's what
22 the table shows.
23 MS. KATHLEEN MCCANDLESS: And what is
24 Basic incurring the investment fees from?
25 MR. GLENN BUNSTON: So those are fees

1 charged by the investment managers. So, in this case,
2 the fixed income managers for the provincial bond
3 portfolio, the nonmarketable bond portfolio and the
4 corporate bond managers who are in the process of
5 selecting.
6 MS. KATHLEEN MCCANDLESS: Thank you.
7 If we scroll to figure 1, in this IR response, it's
8 the Basic line of business investment earnings
9 summary. At line 4, we see that Basic's share of
10 income of pension assets declines from $15.2 million
11 in 2019/'20 to $13.9 million in 2020/'21, yes?
12 MR. GLENN BUNSTON: Yes, I see that.
13 MS. KATHLEEN MCCANDLESS: And can you
14 explain why that's the case?
15
16 (BRIEF PAUSE)
17
18 MR. GLENN BUNSTON: We'll have to look
19 into that and get back to you on the reason for that
20 decrease.
21 MS. KATHLEEN MCCANDLESS: Okay, if we
22 could have that by way of undertaking then to provide
23 an explanation for the decrease in Basic's share of
24 income on pension assets from 2019/'20 to 2020/'21.
25 MR. GLENN BUNSTON: Yes, certainly.

1 MS. KATHLEEN MCCANDLESS: Thank you.
2
3 --- UNDERTAKING NO. 3: MPI to provide an
4 explanation for the
5 decrease in Basic's share
6 of income on pension
7 assets from 2019/'20 to
8 2020/'21
9
10 CONTINUED BY MS. KATHLEEN MCCANDLESS:
11 MS. KATHLEEN MCCANDLESS: So as is
12 clear on the record from earlier today, if interest
13 rates change, there will be an impact based on the ALM
14 strategy that's being implemented by the Corporation,
15 yes?
16 MR. GLENN BUNSTON: As was indicated
17 earlier, the impact of interest rates on Basic will be
18 significantly reduced to, essentially, zero going
19 forward.
20 MS. KATHLEEN MCCANDLESS: But
21 nonetheless there will be an impact.
22 MR. GLENN BUNSTON: There will be a
23 small impact, yes.
24 MS. KATHLEEN MCCANDLESS: So if we
25 could look at PUB-MPI-1-25, on page 2, figure 1. This

1 table shows the financial impact to the Basic line of
2 business based on a March 2018 50-50 interest rate
3 forecast. Yes?
4 MR. GLENN BUNSTON: Yes, that's right.
5 MS. KATHLEEN MCCANDLESS: And it shows
6 the impact on net income by the ALM strategy as well.
7 So we see the following, if we look to line 4 there's
8 a difference of $4 million in investment income for
9 2019/'20 as compared to 2018/'19, yes?
10 MR. GLENN BUNSTON: Yes, that's right.
11 MS. KATHLEEN MCCANDLESS: And at line
12 8, we see that Basic investment income will be $7.5
13 million lower in 2019/'20 as compared to 2018/'19,
14 yes?
15 MR. GLENN BUNSTON: Correct.
16 MS. KATHLEEN MCCANDLESS: And at line
17 12, we see Basic total income will be $7.3 million
18 lower in 2019/'20 compared to 2018/'19, yes?
19 MR. GLENN BUNSTON: Correct.
20 MS. KATHLEEN MCCANDLESS: And at line
21 16 the Basic MCT ratio will be higher by 16 percent.
22 Yes?
23 MR. GLENN BUNSTON: Yes, that's right.
24 MS. KATHLEEN MCCANDLESS: Now, if we
25 assume that interest rates will increase based on

1 Mercer's standard interest rate forecast so at figure
2 2 on page 3. This is -- this depicts the financial
3 impact to the Basic line of business for Mercer's
4 SIRF.
5 Based on the results here, would you
6 agree that the changes in income are less significant
7 in 2019/'20 as compared to the table we just reviewed?
8 MR. GLENN BUNSTON: Sorry, is your
9 question, is the difference between the GRA forecast
10 under ALM versus non-ALM, is that difference smaller
11 than in the previous table?
12 MS. KATHLEEN MCCANDLESS: Yes. We can
13 discuss specific references if --
14 MR. GLENN BUNSTON: Could we scroll
15 back to the previous table?
16
17 (BRIEF PAUSE)
18
19 MR. GLENN BUNSTON: And then back to
20 the second. So in 1920, yes, the impact is -- is
21 smaller.
22 MS. KATHLEEN MCCANDLESS: Thank you.
23 So, for example, at line 4, we see that the -- the
24 difference is $2.3 million, yes?
25 MR. GLENN BUNSTON: Yes.

1 MS. KATHLEEN MCCANDLESS: And roughly
2 $5 million for -- at line 8, yes?
3 MR. GLENN BUNSTON: Yes, line 8 is 5
4 million approximately.
5 MS. KATHLEEN MCCANDLESS: And at line
6 12 we see a difference of $5.5 million, yes?
7 MR. GLENN BUNSTON: Correct.
8 MS. KATHLEEN MCCANDLESS: For total
9 equity. Now, if we could pull up PUB-MPI-1-28 and
10 figure 2 on page 3.
11 So this table depicts Basic investment
12 and claims net interest rate impact with a 50-50
13 forecast as at July 2018. Yes?
14 MR. GLENN BUNSTON: Yes, that's
15 correct.
16 MS. KATHLEEN MCCANDLESS: And as a
17 result of using a 50-50 interest rate investment
18 income declines as a result of forecast changes in the
19 marketable bond yield, yes?
20 MR. GLENN BUNSTON: Yes, investment
21 income is decreasing going forward after 2018/'19.
22 MS. KATHLEEN MCCANDLESS: So at line 8
23 of the table under the 2018/'19 forecast budget, we
24 see losses of $13.5 million, yes?
25 MR. GLENN BUNSTON: Correct.

1 MS. KATHLEEN MCCANDLESS: And for
2 2019/'20, $21.2 million?
3 MR. GLENN BUNSTON: That's right.
4 MS. KATHLEEN MCCANDLESS: And for
5 2020/'21 $11.1 million, yes?
6 MR. GLENN BUNSTON: Yes.
7 MS. KATHLEEN MCCANDLESS: And claims'
8 liability declines as well?
9
10 (BRIEF PAUSE)
11
12 MR. GLENN BUNSTON: So net claims
13 incurred is -- is increasing, but the -- the interest
14 rate impact on line 12 is -- is decreasing.
15 MS. KATHLEEN MCCANDLESS: Thank you.
16
17 (BRIEF PAUSE)
18
19 MS. KATHLEEN MCCANDLESS: So if we
20 look to line 17 of the table then, this is moving
21 forward from 2018/'19, that's the net impact of the
22 new ALM strategy, yes?
23 MR. GLENN BUNSTON: Yes, line 17 shows
24 that the net impact of interest rates is dramatically
25 reduced going forward from -- ranging from 6, 7

1 million to as high as 75 million but going forward
2 it's under $10 million.
3 MS. KATHLEEN MCCANDLESS: It was --
4 it's 12 million positive for 2018 forecast budget and
5 then moving forward it's negative, yes?
6 MR. GLENN BUNSTON: Yes, it's negative
7 moving forward but I'd just point out that the -- in
8 absolute value terms the -- the volatility is much
9 less and the numbers are smaller.
10 MS. KATHLEEN MCCANDLESS: If we could
11 pull up Figure INV-48. At this table we see the
12 impact of a 100 basis point increase in interest rates
13 on the 2018 as compared to the 2019 GRA, yes?
14 MR. GLENN BUNSTON: Yes, that's right.
15 MS. KATHLEEN MCCANDLESS: And it
16 appears from these results that a 100 basis point
17 increase in interest rates would have a negative
18 impact on MPI, yes?
19 MR. GLENN BUNSTON: The table shows in
20 2020/'21 and 2021/'22 small negative impacts, yes.
21 MS. KATHLEEN MCCANDLESS: All right,
22 thank you. I now have some questions about the
23 investment policy statement. And in the filing we
24 have the April 30, 2018 investment policy statement,
25 yes?

1 MR. GLENN BUNSTON: Yes, that's right.
2 MS. KATHLEEN MCCANDLESS: And then MPI
3 recently filed as Exhibit 19 the transitional
4 investment policy statement as well, yes?
5 MR. GLENN BUNSTON: Yes.
6 MS. KATHLEEN MCCANDLESS: Now I
7 understand that among the material changes in the
8 investment policy statement as of April 30, 2018 was
9 that to include that the minimum credit rating was
10 changed from A to BBB, is that right?
11 MR. GLENN BUNSTON: Yes, that's right.
12 MS. KATHLEEN MCCANDLESS: And that was
13 to conform to the standard definition of investment-
14 grade securities which includes triple B investments?
15 MR. GLENN BUNSTON: That's correct.
16 MS. KATHLEEN MCCANDLESS: Now, if we
17 could put pull up PUB-MPI-1-22, Figure 1.
18 This table depicts MPI's investments in
19 corporate bonds as of June 30, 2018. Yes?
20 MR. GLENN BUNSTON: Yes, that's right.
21 MS. KATHLEEN MCCANDLESS: And it
22 appears that at least as of that date that MPI had not
23 invested in any triple B rated bonds, correct?
24 MR. GLENN BUNSTON: Correct.
25 MS. KATHLEEN MCCANDLESS: Are any

1 triple B investments held to date?
2 MR. GLENN BUNSTON: Not right now, no.
3 So the province of Manitoba is currently managing our
4 fixed income portfolio including corporate bonds.
5 It's not their core area of competency and so they
6 have agreed that they're not going to buy any more
7 corporate bonds for us until we've hired the external
8 manager, at which point, the external manager will
9 have the freedom to buy tripe B rated bonds if they so
10 choose.
11 MS. KATHLEEN MCCANDLESS: Thank you.
12 If we could pull up PUB-MPI-2-12, Figure 1.
13 The Corporation provided a forecasted
14 yield on corporate bonds for 2018 and '19 -- pardon
15 me, 2018/'19 and 2019/'20?
16 MR. GLENN BUNSTON: The table shows
17 the expected market value of our holdings in corporate
18 bonds.
19 MS. KATHLEEN MCCANDLESS: And is the
20 goal still to have, by the end of this year, 21
21 percent, or approximately $619 million in corporate
22 bonds, as depicted in line 3?
23 MR. GLENN BUNSTON: No. That is -- is
24 not our goal. As I said earlier, we need to have our
25 accounting systems revised to accommodate the -- the

1 new portfolios, and that can't happen until our --
2 until our fiscal year is concluded. So that work is
3 underway, and -- so the new portfolios will be
4 implemented in the system and be ready for March 1st
5 of 2019.
6 MS. KATHLEEN MCCANDLESS: Thank you.
7 Now if we could look to the transitional investment
8 policy statement, which is MPI Exhibit 19. And as I
9 understand this document, it -- it reflects revisions
10 to the initial investment policy statement included in
11 the filing, and it's incorporating the implementation
12 of the ALM Plan. Is that right?
13 MR. GLENN BUNSTON: Yes. So it
14 includes the current asset allocation for the co-
15 mingled portfolio, the 70/30 split between bonds and -
16 - and growth assets, and then the asset allocation for
17 the five (5) new portfolios, starting on March 1st.
18 MS. KATHLEEN MCCANDLESS: Thank you.
19 Is a black line version of this policy statement
20 available?
21 MR. GLENN BUNSTON: We could make one
22 available, if that would be helpful.
23 MS. KATHLEEN MCCANDLESS: That would
24 be helpful, thank you, if you could undertake to
25 provide that.

1 MR. STEVE SCARFONE: Yes, the MPIC
2 will make that undertaking.
3 MS. KATHLEEN MCCANDLESS: Yeah.
4 That's to provide a black line version of the
5 transitional investment policy statement.
6 MR. STEVE SCARFONE: Yes. Thank you
7 for repeating that, and the earlier undertaking, we --
8 we were remiss in not asking that it be repeated, but
9 I think we'll check the transcript tonight.
10
11 --- UNDERTAKING NO. 4: MPIC to provide a black
12 line version of the
13 transitional investment
14 policy statement
15
16 CONTINUED BY MS. KATHLEEN MCCANDLESS:
17 MS. KATHLEEN MCCANDLESS: Now, I
18 understand that this investment policy statement, the
19 transitional -- I understand the transitional
20 investment policy statement has been approved by the
21 Minister of Finance as of -- or as effective July 31,
22 2018?
23
24 (BRIEF PAUSE)
25

1 MR. GLENN BUNSTON: It's been approved
2 by our investment committee, and I believe that
3 approval by the Minister is -- is still pending.
4 MS. KATHLEEN MCCANDLESS: Okay. Thank
5 you. Now, will it ultimately be the intent of the
6 Corporation to file separate investment policy
7 statements for each of the portfolios, or will they --
8 will they all be contained in one (1) document?
9 MR. GLENN BUNSTON: So we did consider
10 having separate documents. In the end, we decided
11 that one (1) document was easier to administer, since
12 there is -- would be significant overlap between the
13 documents, and so our plan is to have one (1)
14 investment policy statement going forward.
15 MS. KATHLEEN MCCANDLESS: Thank you.
16 At the bottom of page 3 and running into page 4 of the
17 transitional investment policy statement, there's a
18 list of the statements of investment beliefs. I
19 understand that there have been some updates, but that
20 1 through 6 remain unchanged from the previous
21 investment policy statement. Are you able to confirm?
22
23 (BRIEF PAUSE)
24
25 MR. GLENN BUNSTON: I can't recall

1 right now what changes, if any, were made to this, so
2 I think once the black line version is -- is produced,
3 then it will be apparent to everybody what changes
4 were made.
5 MS. KATHLEEN MCCANDLESS: Yes, that
6 makes sense. Thank you.
7
8 (BRIEF PAUSE)
9
10 MS. KATHLEEN MCCANDLESS: If we could
11 turn to page 10 of the transitional investment policy
12 statement. And again, Mr. Bunston, if it's going to
13 be too difficult to answer these questions in the
14 absence of a black line, let me know.
15 With respect to item 5.4, I gather that
16 it has now been broken up into subparts as listed
17 below to recognize the different port -- portfolios
18 that were proposed by Mercer. Is that right?
19 MR. GLENN BUNSTON: Yes, that's right.
20 So significant edits were made to this portion of the
21 investment policy statement, because previously, it
22 referred to just the commingle portfolio.
23 MS. KATHLEEN MCCANDLESS: So I will
24 ask some questions about the subparagraphs here, then.
25 With respect to Basic claims liabilities, right at the

1 beginning of that section, it indicates that the
2 objective is to back policyholder claims and to ensure
3 funds are available as liabilities come due, and to
4 minimize interest rate risk through duration matching.
5 The funds are intended to pursue modest incremental
6 returns while maintaining risk management as a top
7 priority, yes?
8 MR. GLENN BUNSTON: Yes, that's
9 correct.
10 MS. KATHLEEN MCCANDLESS: Can you
11 explain what is meant by a modest return?
12 MR. GLENN BUNSTON: So the portfolio
13 has only fixed income assets in it, and we have
14 increased the allocation to corporate bonds to 20
15 percent of that portfolio, and that is an effort to
16 increase the yield of the portfolio. We also have
17 nonmarketable bonds in that portfolio which have a
18 higher yield than marketable Province of Manitoba
19 bonds. So those are those are -- those are efforts to
20 try to ensure that the yield of the portfolio is -- is
21 increased on a reasonable basis.
22 MS. KATHLEEN MCCANDLESS: Thank you.
23 The last sentence at section 5.4.1 states:
24 "The -- the timing and amount of
25 payments beyond twelve (12) months are

1 estimated, and long-term investments
2 are held to cover these liabilities."
3 So just to confirm, there are no
4 equities, then?
5 MR. GLENN BUNSTON: No, there's no
6 equities within the Basic claims portfolio.
7 MS. KATHLEEN MCCANDLESS: With respect
8 to the 5.4.2, that's in respect of the Rate
9 Stabilization Reserve, the objective is to ensure
10 sufficient levels of capital are maintained such that
11 the line of business remains healthy and in an
12 actuarially-determined state of satisfactory financial
13 condition.
14 The RSR port -- portfolio must have
15 sufficient capital to withstand plausible adverse
16 events and to deliver rate stability and
17 predictability, yes?
18 MR. GLENN BUNSTON: Yes, that's right.
19 MS. KATHLEEN MCCANDLESS: Perhaps you
20 could just explain what this means.
21 MR. GLENN BUNSTON: So this portfolio
22 needs to have some liquidity so that if there -- if
23 there is a -- a net loss by the Corporation, that
24 money is available to fund that net loss. And on the
25 other hand, we also want the portfolio to have some

1 growth. So that's why it's a -- it's a balanced
2 portfolio going forward, with 50 percent in fixed
3 income and 50 percent in -- in growth assets.
4 MS. KATHLEEN MCCANDLESS: And then in
5 the middle of the section, there is a sentence that
6 starts, "Given" -- it's just at the very right, four
7 (4) lines down. It states:
8 "Given that there are no specific
9 backing obligations, duration
10 management does not apply, and the
11 fund's objective is to generate real
12 returns to facilitate stable premium
13 rates."
14 Can you explain what is meant by
15 facilitating stable premium rates?
16 MR. GLENN BUNSTON: Well, it means
17 that if there is a net loss, that funds can be
18 transferred from the RSR to -- to Basic to -- to
19 ensure that we don't have to go back to customers to
20 cover that loss.
21 MS. KATHLEEN MCCANDLESS: Thank you.
22 And what's meant by real return in this sentence?
23
24 (BRIEF PAUSE)
25

1 MR. GLENN BUNSTON: So the portfolio
2 has, as I said, an allocation of 50 percent to growth
3 assets, so that will include Canadian equities, global
4 equ -- global equities, infrastructure, and real
5 estate, and those asset classes provide, obviously,
6 expected over the long term, higher total rates of
7 return than fixed income.
8 The use of the word 'real return' here
9 was not meant to refer to real return bonds, and it
10 was -- it was not meant to be a -- a statement linking
11 to inflation protection.
12 MS. KATHLEEN MCCANDLESS: So if, for
13 example, the Corporation lost $20 million in Basic,
14 would it not -- it wouldn't have the intention of
15 selling any investments to cover that loss?
16 MR. GLENN BUNSTON: Well, the
17 intention would be to have liquid investments, i.e.,
18 fixed income investments that have regular payment to
19 principal and interest, and likely some money in cash
20 that could be used, but we might have to liquidate
21 some of the parts of the fixed income portfolio.
22 MS. KATHLEEN MCCANDLESS: If we scroll
23 to page 11, at 5.6, here, the -- the table here, I
24 understand, depicts the benchmarks that the
25 Corporation is going to use to measure its expen --

1 its success, pardon me, and they've been expanded. Is
2 that right?
3 MR. GLENN BUNSTON: Yes, this sets out
4 the benchmarks for the fixed income -- well, for all
5 the parts of the portfolio, yes.
6 MS. KATHLEEN MCCANDLESS: And the
7 benchmarks were developed with Mercer. Is that right?
8 MR. GLENN BUNSTON: That's right.
9 MS. KATHLEEN MCCANDLESS: Now, on the
10 left-hand side of the table here, under "asset class,"
11 we see Canadian bonds. I understand with the
12 expansion of fixed income investments, the
13 benchmarking will be against specific indexes matched
14 to the characteristics of those investments? Is that
15 right?
16 MR. GLENN BUNSTON: Yes. So the plan
17 is to have blended benchmarks that will provide us
18 with durations that are similar to the durations of
19 the underlying liabilities.
20 MS. KATHLEEN MCCANDLESS: With respect
21 to private debt, how did the Corporation establish the
22 expected annual return for private debt? So that's
23 based on a universal bond index plus seventy-five (75)
24 basis -- basis points?
25 MR. GLENN BUNSTON: So that was set in

1 -- in conjunction with Mercer, and by our research
2 into the expected yield of private debt. And again,
3 we're looking at private debt that's on the lower end
4 of the risk spectrum, so investment grade, and so the
5 -- the yield pick up there is seventy-five (75) basis
6 points, much lower than you would expect from private
7 debt that is higher risk and higher return seeking.
8 And again, this is to try to obtain some
9 diversification and some additional yield for the
10 portfolios.
11 MS. KATHLEEN MCCANDLESS: Can you give
12 an example of the investment grade?
13
14 (BRIEF PAUSE)
15
16 MR. GLENN BUNSTON: So it could be
17 debt that's issued by an infrastructure project, for
18 example. It could be corporate debt, and it -- it
19 could be real estate related debt. So will -- our
20 plan is to select a manager and the manager will
21 select the specific securities on our behalf.
22 MS. KATHLEEN MCCANDLESS: Thank you.
23 With respect to Canadian equities, which are on this -
24 - the next page, am I correct in understanding that
25 the benchmark is the same as that which was used

1 previously?
2 MR. GLENN BUNSTON: Yes, the S&P/TSX
3 Cap -- Composite is the current benchmark, and this
4 will be used going forward.
5 MS. KATHLEEN MCCANDLESS: Okay. And
6 with respect to global equities, the MSCI World Total
7 Return Index plus one hundred and fifty (150) basis
8 points over a rolling four (4) year period annualized,
9 can you please explain this index?
10 MR. GLENN BUNSTON: Yes. So this is
11 the common benchmark used for global equities. It
12 includes equities from developed markets only, and I
13 can't name all the countries, but I believe it's
14 members of the OECD, the Organization for Economic
15 Cooperation and Development, so about thirty (30)
16 countries would be included.
17 MS. KATHLEEN MCCANDLESS: And so why
18 use a rolling four (4) year average?
19 MR. GLENN BUNSTON: So that is what
20 we've always used for our equity managers. It's meant
21 to try to capture a full market cycle from market
22 bottom to market peak, just reflect -- reflecting the
23 fact that some managers outperform at different
24 periods of time in the -- in the investment cycle than
25 others, and so we look at -- we always look at

1 performance over rolling four (4) year periods for
2 equities.
3 MS. KATHLEEN MCCANDLESS: Thank you.
4 And then with respect to alternative investments at
5 the bottom of the table, again, am I correct in
6 understanding there is no change from the previous
7 investment policy statement?
8 MR. GLENN BUNSTON: That's right. The
9 IPD index is what we all -- we've always used for
10 Canadian real estate, and infrastructure has always
11 been CPI plus 5 percent.
12 MS. KATHLEEN MCCANDLESS: Thank you.
13 At page 15 of section 7, we see the asset allocation
14 until February 28, 2019 in the table below that
15 section 7.1, yes?
16 MR. GLENN BUNSTON: Yes, that's right.
17 MS. KATHLEEN MCCANDLESS: And then on
18 the next page, at 7.2, I understand this is the target
19 allocation for each portfolio after February 28, 2019,
20 for Basic, yes?
21 MR. GLENN BUNSTON: That's correct.
22 MS. KATHLEEN MCCANDLESS: Scrolling
23 back up to page 15, we see that with respect to
24 government bonds, the range was previously 40 percent
25 as a minimum to 60 percent as a maximum, with a normal

1 level of 45 percent, yes?
2 MR. GLENN BUNSTON: Correct.
3 MS. KATHLEEN MCCANDLESS: And then if
4 we -- sorry, Kristen, to make you keep going back and
5 forth. If we scroll down to 7.2, under "fixed income
6 provincial bonds," this would be equivalent to
7 previous government bonds, correct?
8 MR. GLENN BUNSTON: More or less.
9 It's anticipated that we'll reduce our allocation to
10 federal bonds and have primarily provincial bonds
11 going forward.
12 MS. KATHLEEN MCCANDLESS: And we see
13 the minimum target allocation here, 50 percent, to a
14 maximum of 70 percent, with a mid target of 60
15 percent, yes?
16 MR. GLENN BUNSTON: That's right.
17 MS. KATHLEEN MCCANDLESS: And then
18 corporate bonds we see previously had a range of zero
19 percent to 10 percent, with a normal target of 5
20 percent, yes?
21 MR. GLENN BUNSTON: Yes.
22 MS. KATHLEEN MCCANDLESS: And if we
23 scroll down, then, to 7.2, we see that has been
24 expanded to a minimum of 10 percent, a target of 20
25 percent, and a maximum of 30 percent, yes?

1 MR. GLENN BUNSTON: That's right.
2 MS. KATHLEEN MCCANDLESS: And the
3 nonmarketable bonds depicted here at the bottom of the
4 table, under "asset class," those would be MUSH bonds?
5 MR. GLENN BUNSTON: That's correct.
6 MS. KATHLEEN MCCANDLESS: And I
7 understand that the target ranges have been lowered
8 from what was previously the target. On the table
9 before you, you see a minimum of 10 percent, and the
10 target level is at 20 percent, but the maximum remains
11 at 25 percent. Is that right?
12 MR. GLENN BUNSTON: The target and the
13 maximum are unchanged. The minimum has decreased from
14 15 to 10 percent.
15 MS. KATHLEEN MCCANDLESS: Is it the
16 intent of the Corporation to maintain MUSH bonds at a
17 level of 20 percent?
18 MR. GLENN BUNSTON: No, it is not.
19 The reason is because new MUSH bonds are very limited
20 in terms of issuance going forward. That's because
21 the Province has changed how it funds schools, and
22 they were the primary issuer of MUSH bonds in the
23 past, so it's in the future, municipalities issuing
24 them only, and so they're just not available. So they
25 will be -- as they mature, we will not be able to

1 replace them.
2 MS. KATHLEEN MCCANDLESS: Thank you.
3 Page 17 shows the target allocation for Basic, RSR,
4 Extension, and SRE portfolios, yes?
5 MR. GLENN BUNSTON: Yes, it does.
6 MS. KATHLEEN MCCANDLESS: So the
7 transitional investment policy statement, then, it
8 groups these three (3) portfolios together, yes?
9 MR. GLENN BUNSTON: That's right.
10 They all have the same asset allocation at this time.
11 MS. KATHLEEN MCCANDLESS: Is it the
12 intent to monitor separate investment portfolios with
13 the same target levels reached?
14 MR. GLENN BUNSTON: Yes, we will have
15 separate portfolios for each of these lines of
16 business, and RSR, and we'll monitor them going
17 forward, and it may be possible in the future -- we
18 may modify the asset allocation targets for some of
19 these, and they could be different in the future.
20 MS. KATHLEEN MCCANDLESS: And these
21 portfolios will carry fixed income instruments, yes?
22 MR. GLENN BUNSTON: Correct, yeah, 50
23 percent fixed income.
24 MS. KATHLEEN MCCANDLESS: Yeah. And
25 that would include MUSH?

1 MR. GLENN BUNSTON: Yes, it will.
2 MS. KATHLEEN MCCANDLESS: Is it the
3 intent to segregate the MUSH portfolio and assign some
4 of the -- those issues outside of the Basic claims
5 portfolio, to be held by these other portfolios?
6 MR. GLENN BUNSTON: Yes, we will have
7 to identify specific securities that will be held in
8 the separate portfolios.
9 MS. KATHLEEN MCCANDLESS: And right
10 now, do you know the total amount that is going to be
11 allocated?
12 MR. GLENN BUNSTON: Off the top of my
13 head, I -- I do not. We have started that exercise.
14 We've been working with our investment accounting team
15 to, on a preliminary basis, identify fixed income
16 securities that would be allocated to the different
17 portfolios, mainly based on the duration of those
18 securities in relation to -- and trying to match the
19 duration of the underlying liabilities, where there
20 are. So that was for -- for modelling purposes,
21 really, so the investment accounting team could begin
22 to make modifications they need to the investment
23 accounting system.
24 MS. KATHLEEN MCCANDLESS: And who will
25 be managing that?

1 MR. GLENN BUNSTON: Transitioning the
2 portfolio from the commingle to the future? Well,
3 myself and my team will be, in conjunction with the
4 fixed income manager at the Province of Manitoba.
5 MS. KATHLEEN MCCANDLESS: Thank you.
6 If we see the maximum allocation on the right-hand
7 side of the table here, at public equities, up to 17
8 percent of the portfolio will be in Canadian equities.
9 Is that right?
10 MR. GLENN BUNSTON: Yes, that's right.
11 MS. KATHLEEN MCCANDLESS: And it
12 appears also that just two (2) lines below global and
13 global low vola -- volatility equities will have a
14 prominent weighting in the portfolio, yes?
15 MR. GLENN BUNSTON: Yes.
16 MS. KATHLEEN MCCANDLESS: And those
17 global and global low volatility equities, they will
18 have a significant level of exposure to US
19 investments?
20 MR. GLENN BUNSTON: Yes, about 50
21 percent of the MSCI world index is allocated to the US
22 market.
23 MS. KATHLEEN MCCANDLESS: And for
24 total public equities, we see the new portfolios will
25 have a range of 25 percent as the minimum, 35 percent

1 as the target, and 45 percent as the maximum for
2 equity exposure, yes?
3 MR. GLENN BUNSTON: That's right.
4 Yes.
5 MS. KATHLEEN MCCANDLESS: And I
6 understand previously the range for the commingle
7 portfolio was 10 percent at the minimum, fifteen (15)
8 at the target, and 20 percent at the maximum, yes?
9 MR. GLENN BUNSTON: Yes, that's right.
10 MS. KATHLEEN MCCANDLESS: Now if we
11 could go to INV-3 from the investment section of the
12 filing. And this is a table depicting the investment
13 portfolio asset val -- values for the Basic line of
14 business.
15 Under 2017/'18 actual, at line 6, we
16 see that the portfolio had $226 million in Canadian
17 equities, yes?
18 MR. GLENN BUNSTON: Yes, that's right.
19 MS. KATHLEEN MCCANDLESS: And at line
20 7, we see $124 million in US equities, yes?
21 MR. GLENN BUNSTON: Correct.
22 MS. KATHLEEN MCCANDLESS: And then at
23 2018/'19 forecast budget, with the new allocation
24 targets into the separate portfolios, we see Canadian
25 equities at line 6 is now $40 million, yes?

1 MR. GLENN BUNSTON: Correct.
2 MS. KATHLEEN MCCANDLESS: And US
3 global equities is $43 million at line 7?
4 MR. GLENN BUNSTON: That's right.
5 MS. KATHLEEN MCCANDLESS: And low
6 global volatility equities are $33 million at line 8?
7 MR. GLENN BUNSTON: Global low
8 volatility equities are 33 million, yes.
9 MS. KATHLEEN MCCANDLESS: So in total,
10 that's $116 million?
11 MR. GLENN BUNSTON: Yes, that's right.
12 MS. KATHLEEN MCCANDLESS: Or a third
13 (1/3) of the size of exposure to growth assets, then,
14 in 2019?
15 MR. GLENN BUNSTON: Sorry, you're
16 saying that the total of the -- of equities is one-
17 third (1/3) of growth assets?
18 MS. KATHLEEN MCCANDLESS: Yes.
19
20 (BRIEF PAUSE)
21
22 MR. GLENN BUNSTON: Well, growth
23 assets includes real estate, infrastructure, and
24 equities. So the target weight to equities is 35
25 percent of the total portfolio. The target to

1 alternatives is fifteen (15), so equities is about
2 two-thirds (2/3) of the growth portfolio. Sorry, it's
3 70 percent of the growth portfolio.
4 MS. KATHLEEN MCCANDLESS: If we could
5 go back to the transitional investment policy
6 statement at section 8.6. By this section, we see
7 that the Finance Department -- or we expect the
8 Finance Department will approve the Corporation
9 investing in bonds with credit ratings below A, yes?
10 MR. GLENN BUNSTON: Yes. We were
11 informed recently that that recommendation has been
12 sent to Minister of Finance, and we expect it to be
13 approved shortly.
14 MS. KATHLEEN MCCANDLESS: And at this
15 time, can you provide any insight into what percentage
16 of the portfolio the Corporation intends to invest in
17 those types of issues?
18
19 (BRIEF PAUSE)
20
21 MR. GLENN BUNSTON: So the modelling
22 that we did in the past was that we expected to have
23 about 30 -- I'm sorry, 38 to 40 percent of the
24 corporate bond portfolio in triple B rated bonds, and
25 that number is approximately equal to the -- the

1 market weight within the -- within the benchmark to
2 triple B rated bonds. But that will depend somewhat
3 on the manager we select, and their investment
4 strategy, so it remains to be determined.
5 MS. KATHLEEN MCCANDLESS: Thank you.
6 I understand that Mercer recommended no emerging --
7 emerging markets exposure. Is that right?
8 MR. GLENN BUNSTON: Mercer recommended
9 that we include emerging markets in our global equity
10 exposure.
11 MS. KATHLEEN MCCANDLESS: And emerging
12 markets would be BRIC? So that's an acronym for?
13 MR. GLENN BUNSTON: Those are some
14 emerging markets. Those are four (4) of the --
15 MS. KATHLEEN MCCANDLESS: Brazil,
16 Russia, India, and China?
17 MR. GLENN BUNSTON: Correct.
18 MS. KATHLEEN MCCANDLESS: So -- now
19 you mentioned previously that finance was going to be
20 managing the bond portfolio. Is that only a portion
21 of the bond portfolio?
22 MR. GLENN BUNSTON: The Department of
23 Finance currently manages a hundred percent of our
24 fixed income portfolio. Our plan is to hire an
25 external manager for corporate bonds, and -- and that

1 -- that's -- process is underway. We have -- we're
2 working with a consultant right now to select an
3 external manager for corporate bonds.
4 MS. KATHLEEN MCCANDLESS: I just have
5 a handful more of -- more questions for the MPI
6 members of the panel before I'll move on to Mr.
7 Makarchuk. So I think we can probably break after
8 that, if that works. Okay.
9 Kristen, can you please refer to
10 PUB/MPI-1-30, figure 1 on page 2. And this is with
11 respect to benchmarking performance of MPI's
12 investment portfolio.
13
14 (BRIEF PAUSE)
15
16 MS. KATHLEEN MCCANDLESS: So this
17 table depicts a comparison of investment returns for
18 MPI as against the Civil Service Superannuation Board,
19 Teachers Retirement Fund, Worker's Compensation Board,
20 and Saskatchewan General Insurance for 2013 to 2017,
21 yes?
22 MR. GLENN BUNSTON: That's right.
23 MS. KATHLEEN MCCANDLESS: If we look
24 at the average annualized return over six (6) years,
25 so at line 6, the other organizations have higher

1 levels of return on average compared to MPI's, yes?
2 MR. GLENN BUNSTON: Yes, the other
3 organizations have higher returns.
4 MS. KATHLEEN MCCANDLESS: And from
5 MPI's standpoint, are these entities considered
6 comparable?
7 MR. GLENN BUNSTON: Well, not
8 entirely. SGI would be most comparable, since they're
9 in the same business as us and their liabilities are
10 similar to ours. Their portfolio, I believe, is --
11 has more equities than ours slightly.
12 So -- and then the first two (2), our
13 Civil Service Superannuation Board and Teachers
14 Retirement Allowance Fund, both of those are pension
15 plans, and so their risk profiles and durations are
16 different than ours, so they're not directly
17 comparable. They have larger allocations to growth
18 assets than we do, which is the reason you see the
19 outperformance.
20 And -- and then the Worker's
21 Compensation Board, more similar to us than a pension
22 plan, but again, they're not auto insurance, so they
23 have some differences. So SGI would be the best
24 comparator, in our mind.
25 MS. KATHLEEN MCCANDLESS: Thank you.

1 And at lines 11 to 13 of figure 1, MPI provided a
2 value-added asset allocation adjusted return, yes?
3 MR. GLENN BUNSTON: Right. So we
4 adjusted the asset allocation of the -- our peers to -
5 - to match ours.
6 MS. KATHLEEN MCCANDLESS: Okay. And
7 so can you just explain what adjustments were made, or
8 why MPI made those adjustments?
9 MR. GLENN BUNSTON: So we've got the
10 returns for each asset class that each of the -- each
11 of the peers, here, earned, and then we weighted those
12 assets -- the returns within each asset class by our
13 target asset allocation, so the 70/30 split, so that
14 the asset allocation was the same across all --
15 everybody, and therefore the only difference was the
16 returns within each asset class.
17 MS. KATHLEEN MCCANDLESS: Thank you.
18 Those are my questions for this section of cross-
19 examination.
20 THE CHAIRPERSON: So we will take
21 fifteen (15) minutes for the afternoon break.
22
23 --- Upon recessing at 2:36 p.m.
24 --- Upon resuming at 2:58 p.m.
25

1 THE CHAIRPERSON: Thank you. We'll
2 resume, Ms. McCandless.
3 MS. KATHLEEN MCCANDLESS: Thank you.
4
5 CONTINUED BY MS. KATHLEEN MCCANDLESS:
6 MS. KATHLEEN MCCANDLESS: I now have
7 some questions for Mr. Makarchuk on the Mercer ALM
8 study. Mr. Makarchuk, thank you for being with us
9 today. Kristen, if you could please pull up
10 investment section 2.1 from the filing, just for the
11 record to refresh everyone's memory.
12 This is with respect to the ALM study
13 and it was broken down into three (3) phases about
14 which we heard this morning. So phase 1 was to
15 analyze the merits of adopting unique asset allocation
16 and investment policy statement for Basic, extension,
17 SRE, RSR and pension.
18 Phase 2 included a discussion of new
19 asset classes along with the rationale for inclusion
20 and exclusion, proposed asset allocations for each
21 portfolio, including estimates of risk and return and
22 implementation consider -- considerations were
23 addressed in phase II.
24 And then Phase 3 was to finalize
25 responses to CAC's eighteen (18) recommendations, yes?

1 MR. DAVID MAKARCHUK: Correct.
2 MS. KATHLEEN MCCANDLESS: Thank you.
3 Now if we could pull up investments Appendix 12. It's
4 also found in the book of documents at Tab 19. This
5 is from the Phase I report, Mr. Makarchuk?
6 MR. DAVID MAKARCHUK: Yes, looks like
7 it.
8 MS. KATHLEEN MCCANDLESS: And as I
9 understand this table, Mercer outlines asset classes
10 that could be considered or could have been considered
11 by MPI to aid in assessing each option and providing
12 general guidance on the relative ability of each asset
13 class to fulfil the objectives at the top, yes?
14 MR. DAVID MAKARCHUK: Correct.
15 MS. KATHLEEN MCCANDLESS: I'm not sure
16 if we can shrink it down, Kristen, so that it all fits
17 into one (1) screen? Thank you.
18 Mr. Makarchuk, could you just elaborate
19 or explain what's on the table before you?
20 MR. DAVID MAKARCHUK: Sure. So this
21 would have been part of the education phase in October
22 where we were going over the relative merits of
23 different fixed income investments as broad asset
24 classes and, again, in one (1) page, ideally, to
25 summarize primarily the ability to match, in other

1 words, mitigate or eliminate risk; the ability to
2 enhance investment returns and the ability to protect
3 principle. Investors on fixed income typically are on
4 fixed income for some --- ideally all but practically
5 very difficult to do all three (3) of those
6 objectives. And so it shows asset class by asset
7 class, the relative merits of each. Again, this was
8 very early in our project before we had done any
9 modelling.
10 Did you want me to go asset class by
11 asset class?
12 MS. KATHLEEN MCCANDLESS: As an
13 overview that's fine, thank you.
14 With respect to the Phase 2 report,
15 Kristen, if we could pull up investment's Appendix 13
16 and this is a table here with respect to an overview
17 of MPI's obligations. Yes?
18 MR. DAVID MAKARCHUK: Correct and this
19 would have been a little bit later in the project.
20 MS. KATHLEEN MCCANDLESS: Okay. And,
21 again, if you could just at a high level explain
22 what's depicted on the table here.
23 MR. DAVID MAKARCHUK: Sure. So this
24 is a point of the project where collectively we had
25 discussed the relative objectives of each of the

1 business lines, understanding the relative size,
2 understanding the relative purpose of the different
3 asset classes. MPI were experts in this regard. This
4 was grounding us in terms of -- in order for us to
5 provide best practice advice, but also help MPI in
6 terms of articulating their objectives in that regard.
7 And so near the end we had facilitated
8 and documented what MPI's return expectations were for
9 each bucket, the risk tolerance as well. You'll
10 notice it is generally moderate with the extension --
11 with the exception of Basic at the time and then the
12 interest rate sensitivity or duration which was
13 calculated based on data that MPI would have provided
14 to us.
15 And so you'll see that the duration of
16 the different buckets varies considerably, and that
17 helped ground the discussion in terms of risk
18 tolerance and fixed income matching as it made sense.
19 MS. KATHLEEN MCCANDLESS: Thank you.
20 At page 5 of the report -- or it could be page 6 of
21 the PDF. It's section 2 of the Phase 2 report. Yes,
22 thank you.
23 This the key recommendation section and
24 the first recommendation is directly below the heading
25 there, Consolidation versus Segregation, yes?

1 MR. DAVID MAKARCHUK: Correct.
2 MS. KATHLEEN MCCANDLESS: And Mercer
3 recommended the identification and segregation of
4 unique asset allocations by component with three (3)
5 reasons provided, yes?
6 MR. DAVID MAKARCHUK: Correct.
7 MS. KATHLEEN MCCANDLESS: And perhaps
8 you could just elaborate on Mercer's recommendation to
9 segregate the portfolio.
10 MR. DAVID MAKARCHUK: Sure and so -- I
11 don't think we need to go back to the table you just
12 showed but I think it demonstrated that the relative
13 obligations were fairly different, and both in terms
14 of size, in terms of purpose, in terms of duration.
15 To some extent, you know, Basic was very different
16 than the rest in terms of risk tolerance and return
17 expectations as well.
18 And so, after we had facilitated that
19 discussion and understanding, we facilitated and
20 discussed with MPI the recommendation that you had
21 just shown which is, these are different enough that
22 we think that it makes sense to segregate them.
23 MS. KATHLEEN MCCANDLESS: Thank you.
24 If we go back to the narrative just below number 3,
25 Mercer wrote that MPI has recommended unique policy

1 allocations for the Basic and pension components along
2 with a consistent policy allocation for each of RSR,
3 SRE and extension.
4 And from Mercer's perspective why
5 should they be a similar portfolio allocation for RSR,
6 SRE and extension?
7 MR. DAVID MAKARCHUK: So we can go
8 back to the -- the chart just to twig but from memory
9 they were smaller, the duration -- yeah, so these are
10 the smaller buckets. Their duration is either low or
11 not really applicable at all. So RSR, the reason the
12 duration there is shown as not applicable and so
13 there's no specific obligation that RSR is covering
14 that one could measure or forecast into the future.
15 But from our perspective -- and again,
16 it was, you know, MPI's decision but we were
17 supportive that extension, SRE and RSR were close
18 enough in aggregate to have three (3) modest sized
19 buckets as opposed to -- I'm not sure what they
20 would've achieved by having five (5) distinct buckets.
21 MS. KATHLEEN MCCANDLESS: Thank you.
22 Under "new asset classes" under key recommendations,
23 Mercer stated:
24 "As part of the overall review of
25 MPI's risk and return objectives,

1 several new asset classes were
2 considered to assess the extent to
3 which they would be expected to
4 improve the risk/reward/trade-off of
5 the fund relative to the underlying
6 obligations."
7 And then if we continue down on to the
8 next page we see a table depicting asset class and
9 then the rationale for inclusion and recommended asset
10 allocations, yes?
11 MR. DAVID MAKARCHUK: Correct.
12 MS. KATHLEEN MCCANDLESS: And then the
13 following page we have another table sorted by asset
14 class with a rationale for exclusion and recommended
15 asset allocations, yes?
16 MR. DAVID MAKARCHUK: Correct.
17 MS. KATHLEEN MCCANDLESS: Perhaps
18 again at a high level, you could walk through these
19 tables and explain.
20 MR. DAVID MAKARCHUK: Sure. Do you
21 want to go back to the included one?
22 MS. KATHLEEN MCCANDLESS: Yes, please.
23 MR. DAVID MAKARCHUK: Sure. So here
24 by asset class we've gone through the ones that
25 ultimately made the recommendation. The decision to

1 include would've been based on some of the efficient
2 frontier work that we've done, some of the qualitative
3 observations that you see here. And this list where
4 the asset class is chosen by MPI in terms of the asset
5 mix is going forward.
6 For example, corporate bonds we kind of
7 noted -- and, again, this is somewhat of an executive
8 summary, you know, what type of corporate bonds we're
9 thinking about here. So, practically speaking, these
10 are investment-grade corporate bonds. These are not
11 below investment-grade corporate bonds that were
12 otherwise under consideration. We otherwise would
13 have bucketed those in high yield which I think are in
14 the excluded bucket that follows.
15 And so, we get some insight just in
16 terms of the duration opportunities that are there;
17 some commentary in terms of this isn't just simply
18 buying index corporate bonds. We think that due
19 diligence is important, making sure you maximize the
20 value of credit spreads, things like that. And there
21 is a observation in terms of excess returns recently.
22 Similarly, for private debt global
23 equities and low volatility equities. You'll see, you
24 know, the different recommendations and discussion on
25 each of the asset classes. There are different kinds

1 of private debt that investors may choose. MPI
2 indicated a preference for less risky private debt.
3 And so the preference here that MPI had indicated was
4 North American. Some of our clients might prefer a
5 global portfolio of private debt. At the time
6 recommended an all country world index equity
7 portfolio that included emerging markets.
8 Subsequently MPI made a decision to
9 exclude emerging market equities and then there's the
10 marital low volatility equities in the -- in the
11 bottom box.
12 MS. KATHLEEN MCCANDLESS: Thank you.
13 Just to clarify then, it was Mercer's recommendation
14 to include emerging markets, yes?
15 MR. DAVID MAKARCHUK: Correct. I
16 think Mr. Bunston indicated that earlier so. That was
17 an MPI decision to exclude it.
18 MS. KATHLEEN MCCANDLESS: And then
19 with respect to the excluded asset classes?
20 MR. DAVID MAKARCHUK: Sure. So here
21 we go asset class by asset class. Again, this was
22 after discussion with MPI in terms of which asset
23 classes fit for their investment objectives, for their
24 return objectives, for the risk objectives. Cost and
25 time to some extent as well.

1 So real return bonds are first on the
2 list acknowledging that there is a link to inflation
3 of Basic and pension liabilities but based on the fact
4 that yields were relatively low, based on the fact
5 that Basic liabilities already included a fixed 2
6 percent inflation rate and, in general, real return
7 bonds will really only be worth their cost if
8 inflation over the long term is higher than 2 percent.
9 If duration -- there are some
10 challenges with matching duration with real return
11 bonds. There is only so many issues. Only seven (7)
12 of them really trade. None of them practically
13 speaking are linked to Manitoba CPI, which is our
14 understanding of the primary bogy for MPI's
15 obligations.
16 We talked about levered bonds as well.
17 I've talked about leverage briefly before. They do
18 provide investors the opportunity to increase their
19 allocation to an asset class, whether it's a matching
20 asset class like fixed income or an asset class like
21 equities or something as well. And so MPI had
22 indicated and the investment committee reiterated that
23 while they understand the relative merits of levered
24 portfolios, they weren't comfortable with the taking
25 on additional leverage within their portfolio at this

1 time.
2 Talked about diversified growth funds
3 as well, which are perhaps more prevalent outside of
4 North America than in Canada. They do provide
5 balanced return drivers but there is a limited
6 opportunity set that a fund of this size can then put
7 in and if Basic wasn't going to use growth assets, I
8 think that's the primary reason why diversify growth
9 funds fell off the table.
10 I think this chart maybe spills on to
11 another page from memory.
12 MS. KATHLEEN MCCANDLESS: Yes, it
13 does.
14 MR. DAVID MAKARCHUK: And then there's
15 a discussion on private equity. Again, a great return
16 enhancer but again if Basic was not going to have
17 private equity within it, practically speaking,
18 there's just not enough assets in the other buckets to
19 -- from our perspective to warrant -- and MPI's as
20 well, to warrant the governance effort with additional
21 allocations to private equity.
22 MS. KATHLEEN MCCANDLESS: Thank you.
23 With respect to real return bonds, several reasons
24 were provided for the exclusion of real return bonds
25 and you spoke about them a fair bit this morning.

1 Just with respect to Mercer's work in
2 other jurisdictions, is it typical to exclude real
3 return bonds from portfolio allocation?
4 MR. DAVID MAKARCHUK: So when we say
5 "exclude" here, this is MPI's decision to not include,
6 right. So they were included in the analysis and it
7 would be typical in any asset liability study to
8 include it as a plausible asset class, unless we knew
9 for sure that the liabilities had no indexed
10 provision.
11 But generally for clients that do have
12 an indexed provision, whether it's full CPI or partial
13 CPI, it will be on the table. I can think of many
14 sponsors, most of Mercer's -- many of Mercer's clients
15 are pension sponsors, but others are similar to MPI in
16 that regard that have either fully or partially CPI
17 index obligation. Many of them have no CPI -- or no
18 RRBs in their portfolio at all, some that do would
19 only have a small subset.
20 I'm not sure I can personally identify
21 any that fully match the inflation risk that otherwise
22 is part of their liability obligation.
23 MS. KATHLEEN MCCANDLESS: Thank you.
24 And I believe you indicated in your presentation this
25 morning that two-thirds level of real return bonds

1 would provide 100 percent protection from inflation,
2 would that be accurate?
3 MR. DAVID MAKARCHUK: More or less.
4 So in the sum -- the follow-up work -- and it's
5 actually is even part of the work that we did back in
6 the fall of 2017. The liability benchmark portfolio,
7 which was identified and, you know, we identified a
8 nominal liability benchmark and a real liability
9 benchmark in October of 2017 and walked MPI through
10 that.
11 From memory it was 66 percent real
12 return bonds, but also a healthy dose of cash, partly
13 because the duration of the real return bond index
14 would be too long for the obligations that MPI has in
15 terms of its -- its policy obligations. And so if
16 MPI's objective was to fully eliminate inflation risk
17 parallel to its other objective to fully eliminate
18 nominal interest rate risk, by our calculation at the
19 time a portfolio of roughly two-thirds real return
20 bonds would have been required.
21 MS. KATHLEEN MCCANDLESS: And what
22 would be the current level of protection afforded by
23 real return bonds?
24 MR. DAVID MAKARCHUK: The portfolio
25 does not have real return bonds.

1 MS. KATHLEEN MCCANDLESS: So for other
2 portfolios of which you are aware that would have real
3 return bonds.
4 MR. DAVID MAKARCHUK: Okay. Most
5 often 0 percent, occasionally small 5 percent, maybe
6 10 percent allocations. I can think of many more
7 index sponsors that have no RRBs than some that do.
8 Some do certainly, but I haven't placed RRBs for a
9 client in years.
10 MS. KATHLEEN MCCANDLESS: For those
11 clients for which you have, what -- what do they do to
12 protect against inflation?
13 MR. DAVID MAKARCHUK: Right. So,
14 again, a lot of our clients are pension -- pension
15 related. They have longer-term horizons. Perhaps
16 have capital requirements that are different than --
17 than the MPI.
18 They will look to a diversified
19 portfolio perhaps of equities; perhaps domestic real
20 estate; sometimes to infrastructure, but I'd otherwise
21 caution that diversify global infrastructure has a
22 very loose connection with Canadian CPI, Manitoba, in
23 particular. Those sponsors are willing to accept --
24 and I use the term "basis risk" in perhaps a different
25 way than the -- than the CAC and the PUB have used the

1 term "basis risk," but basis risk in terms of a
2 different kind of inflation protection that comes from
3 assets that generally do better in an inflation
4 environment, not just RRBs.
5 MS. KATHLEEN MCCANDLESS: Thank you.
6 If we could go further down the page on page 9 and
7 this is the recommended policy portfolios by business
8 line and pension obligations. Yes?
9 MR. DAVID MAKARCHUK: Yes.
10 MS. KATHLEEN MCCANDLESS: And, again,
11 at a high level, if you could just describe what's
12 depicted on the table here.
13 MR. DAVID MAKARCHUK: Sure. So the
14 column on the left-hand side looks like an exhaustive
15 list of asset classes either currently in the
16 portfolio or proposed in the portfolio. This was our
17 summary piece and so there's the asset allocation for
18 Basic, the family of three (3) smaller buckets and
19 then for pensions on the right-hand side.
20 And so you see the allocation of each
21 row by row. Definitely some moving parts in the
22 chart.
23 MS. KATHLEEN MCCANDLESS: So with
24 respect to the proposed Basic allocation there, we see
25 that there was a recommendation that Basic move from

1 70 percent fixed income to 100 percent fixed income,
2 yes?
3 MR. DAVID MAKARCHUK: Correct.
4 MS. KATHLEEN MCCANDLESS: And explain
5 how that came about?
6 MR. DAVID MAKARCHUK: Sure. So if you
7 recall from the nine (9) different steps for my -- my
8 opening presentation, the end of October was --
9 October 30th was one (1) of the -- substantially the
10 last educational presentation that we otherwise made
11 talking about the different merits of the different
12 asset classes, engaging MPI in terms of the investment
13 return objectives, risk objectives and things like
14 that.
15 The follow-on immediately after that
16 meeting was to determine some straw-dog or straw-man
17 portfolios that take the learnings from all of the
18 different efficient frontier, qualitative assessments,
19 return risk, cost and time consideration, what the
20 efficient frontier has taught us as well and how we
21 blend together those qualitative considerations with
22 the quantitative considerations in terms of what might
23 prob -- possible portfolios be.
24 And I think it was part of the GRA
25 package, there was -- you know, the actual

1 recommendation was not part of the October 30th
2 analysis; that taught us which asset classes were
3 beneficial which ones were not.
4 And then we went away and I think
5 you'll see four (4) different asset classes -- or at
6 recommenda -- or straw-dog's call it I think Basic
7 point 1, Basic point 2, Basic point 3, Basic point 4
8 which were candidates for further testing, which we
9 did a number of different iterations through the month
10 of November and Basic 1 through Basic 4 was
11 subsequently presented to the investment committee on
12 November 28th, if I recall.
13 MS. KATHLEEN MCCANDLESS: Thank you.
14 If we scroll to page 10 which is just the next page on
15 here. So I understand that the tables here show the
16 recommended asset allocation policies overall impact,
17 yes?
18 MR. DAVID MAKARCHUK: I can't see the
19 top of this one, but this looks like everything
20 together, yep.
21 MS. KATHLEEN MCCANDLESS: And so the
22 first table shows an impact on the right-hand side of
23 an $11 million per annum reduction and expected
24 return, yes?
25 MR. DAVID MAKARCHUK: This is totally

1 MPI, now I'm grounded. Thank you.
2 MS. KATHLEEN MCCANDLESS: And then a
3 $6 million per annum increase in non-MUSH yield, yes?
4 MR. DAVID MAKARCHUK: The -- yes,
5 correct. Of the fixed income that they otherwise
6 would have, the non-MUSH yield would go up to 3.02.
7 MS. KATHLEEN MCCANDLESS: And then a
8 liability decrease of $40 million for non-MUSH yields,
9 yes?
10 MR. DAVID MAKARCHUK: That's what it
11 says. That would've come from MPI. We don't
12 calculate their liabilities so.
13 MS. KATHLEEN MCCANDLESS: Thank you.
14 I understand that MPI had imposed a constraint in the
15 determination of the Basic claims' liability portfolio
16 to minimize substantially all nominal interest rate
17 exposure -- interest rate risk exposure, yes?
18 MR. DAVID MAKARCHUK: Say that one (1)
19 more time. I think the answer is yes.
20 MS. KATHLEEN MCCANDLESS: That MPI had
21 imposed a constraint in the Basic claims' liability
22 portfolio to minimize substantially all nominal
23 interest rate risk exposure?
24 MR. DAVID MAKARCHUK: MPI chose to
25 mitigate, if not eliminate, interest rate risk.

1 Perhaps that's a constraint. I think the answer is
2 yes.
3 MS. KATHLEEN MCCANDLESS: Okay. And
4 if not for this direction or constraint or however you
5 might want to characterize it, would the Basic claims'
6 portfolio have had a different asset mix?
7 MR. DAVID MAKARCHUK: Quite plausibly.
8 They indicated that matching, as best they could, the
9 nominal interest rate risk for the entire Basic
10 portfolio and not having asset classes that couldn't
11 help match the Basic portfolio were requirements for
12 the asset mix going forward, which is why equity for
13 examples was not in the final recommendation.
14 MS. KATHLEEN MCCANDLESS: But it might
15 have been otherwise then?
16 MR. DAVID MAKARCHUK: Sure, if they
17 told me that we were willing to accept a hedge ratio
18 of, say, 80 percent or 50 percent, then yes, that
19 would be quite plausible.
20
21 (BRIEF PAUSE)
22
23 MS. KATHLEEN MCCANDLESS: Now, you
24 mentioned the efficient frontier analysis, and perhaps
25 you could just explain what the efficient frontier

1 analysis means.
2 MR. DAVID MAKARCHUK: Sure. So the
3 efficient frontier was a -- introduced to the world or
4 the economic world by a gentleman by the name of Harry
5 Markowitz in the mid-'50s. It seems like a fairly
6 simple concept now, but like everything that was
7 invented, it was rather novel at the time.
8 It essentially indicates that -- that
9 if we assume a level of return and a level of risk for
10 different asset classes -- and it could even be
11 separate securities but that if we pooled together two
12 (2) different securities or multiple securities or
13 asset classes that are less than fully correlated then
14 potentially we can in -- enhance the overall
15 efficiency of a portfolio by finding asset classes
16 that are less than perfectly correlated.
17 And so, in fairly simple terms, we can
18 draw a scatterplot, a risk versus return and I'm sure
19 you could find one in the many pages of -- of
20 illustration, the goal ideally is to either choose a
21 level of risk that an investor's comfortable with and
22 find a portfolio that optimizes the return or,
23 conversely, find a level of return that investor is
24 looking to find and find the portfolio that is the
25 lowest level of risk.

1 If your asset assumptions are all
2 perfect and you trust them completely, then perhaps
3 you choose to go with an asset allocation that is
4 exactly on the efficient frontier. If you appreciate,
5 which we do, that our assumptions are sometimes
6 imperfect, or that investors have some practical
7 limitations, for example, in this case the MUSH yield
8 -- or the MUSH bonds where perhaps not on the
9 efficient frontier but we're kind of stuck with them
10 for a little while. Sometimes that means, well, you
11 just can't get to the efficient frontier.
12 Is that long enough? I'd really rather
13 not go longer.
14 MS. KATHLEEN MCCANDLESS: Yes, that's
15 fine. Thank you. And so just following on that, so
16 Mercer modelled multiple combinations of asset classes
17 utilizing different efficient frontier -- frontier
18 concepts, as well as stochastic projections of both
19 assets and MPI's obligations, yes?
20 MR. DAVID MAKARCHUK: Right. Our
21 starting point was efficient frontier concepts. We
22 shared qualitative perspective as well. Once we got
23 to the straw-dog or straw-man portfolios, then we
24 introduced some stochastic projections as well, which
25 are stronger than efficient frontier's.

1 Efficient frontier is helpful in terms
2 of an educational point and some learnings, but they
3 don't live in a dollar world, they live in a academic
4 percentage world and for me, especially for my
5 strategic clients, they mostly make their decisions in
6 a dollar context as opposed to a basis point context
7 and so part of the illustrations, for example, we're
8 still on this page, understanding that it's a $11
9 million number. For some stakeholders is a lot more
10 tangible than telling them that's a 40 basis point
11 change. Different investors have different
12 references.
13 MS. KATHLEEN MCCANDLESS: Thank you.
14 And so MPI Appendix 16 from the investment section is
15 MPI's ALM implementation plan. It does contain a
16 graphic depicking efficient frontiers. I'm not sure
17 if you're able to speak to this, Mr. Makarchuk. If
18 you're familiar with it, or if the questions are
19 better directed to members of the MPI panel?
20 MR. DAVID MAKARCHUK: It's one (1) of
21 ours so I should be able to --
22 MS. KATHLEEN MCCANDLESS: That's what
23 I figured so.
24 MR. DAVID MAKARCHUK: I should be able
25 to carry the conversation at least a little ways.

1 MS. KATHLEEN MCCANDLESS: Okay, thank
2 you. So what I understand from looking at Appendix F,
3 so the -- the graphic there in front of you, that the
4 efficient frontier is based on the nominal liability
5 benchmark for the Basic claims' liability?
6 MR. DAVID MAKARCHUK: Correct. This
7 is work we would've done back in the fall, correct.
8 Yep.
9 MS. KATHLEEN MCCANDLESS: And the
10 frontiers shown are constrained to allow only the
11 fixed income asset classes shown in the table in order
12 to achieve MPI's objective of minimizing interest rate
13 risk; is that right?
14 MR. DAVID MAKARCHUK: That looks
15 correct, yes.
16 MS. KATHLEEN MCCANDLESS: And then the
17 current mix as denoted by the orange dot at the top of
18 the chart, that applies to -- currently applies to all
19 business lines, the RSR and the pension fund and
20 includes equities and alternatives; is that right?
21 MR. DAVID MAKARCHUK: Yes. It's
22 somewhat unfortunate that there's three (3) orange
23 dots on this page, but it's the orange one way off in
24 the top right --
25 MS. KATHLEEN MCCANDLESS: Which states

1 current --
2 MR. DAVID MAKARCHUK: -- that you're
3 referring to. Yes.
4 MS. KATHLEEN MCCANDLESS: Okay. And
5 then the line representing the blue efficient frontier
6 includes fixed income asset classes in current?
7 MR. DAVID MAKARCHUK: Yes. Not being
8 able to read what we wrote in the green line, no --
9 I'm not sure what that said, but the blue line does
10 appear to be the asset classes nominal with
11 constraints maybe. Yeah, that's probably what that
12 says there, right.
13 And so if you don't mind just rolling
14 up so I can see what's in Basic 4 please. Stop a tiny
15 bit -- or, sorry, I guess it's down. This way.
16 All right, there's some private debt in
17 there. So, there was an additional constraint
18 eventually that private debt would not be part of
19 Basic which is why Basic d -- Basic 4 was higher than
20 the other three (3).
21 MS. KATHLEEN MCCANDLESS: Okay.
22 MR. DAVID MAKARCHUK: So essentially
23 the green line has private debt in it. The blue line
24 does not have private debt, but it's otherwise the
25 fixed income asset classes with which MPI currently

1 invests.
2 MS. KATHLEEN MCCANDLESS: And the
3 green light has private debt and mortgages?
4 MR. DAVID MAKARCHUK: Perhaps. I'd
5 have to subject to check on that one, so. Mortgages
6 generally didn't model very well. So if mortgages
7 were included, it probably wouldn't move the line,
8 from memory.
9 MS. KATHLEEN MCCANDLESS: Thank you.
10 Now, I understand that after analyzing the stochastic
11 projections and the summary results that it was Basic
12 .3 that was recommended? And you can see it's
13 referred to at the bottom of the page there.
14 MR. DAVID MAKARCHUK: Right, it's
15 probably a culmination of a few different things,
16 right. This is an efficient frontier projection.
17 Subsequently there's charts that included stochastic
18 projections as well. I think they all happened
19 together. There was probably some discussion with MPI
20 where we said, okay, well, here's the dollar
21 implications, here's the percent implications.
22 But you're right, Basic 3 is the one
23 that was ultimately agreed on as to what would be
24 recommended to the investment committee to go forward.
25 MS. KATHLEEN MCCANDLESS: Right. And

1 just for the reference of the Board, Basic 3 is
2 depicted at the bottom of the page, at least as far as
3 a reference. So if we scroll, we see the current
4 portfolio Basic 1, Basic 2, Basic 3 and Basic 4 as you
5 mentioned.
6 MR. DAVID MAKARCHUK: Yep. Basic 3C
7 in the chart.
8 MS. KATHLEEN MCCANDLESS: Now I
9 understand that private debt was not included in the
10 Basic claims' portfolio in order to limit risk within
11 the portfolio.
12 MR. DAVID MAKARCHUK: Yes. It
13 potentially is lower -- you'll see it's to the left
14 here. It's actually lower risk so I'm not sure that -
15 - say the question again because that may not have
16 been a "yes" answer.
17 MS. KATHLEEN MCCANDLESS: Okay. So in
18 order to limit risk to the Basic claims' portfolio
19 private debt was not included, or is --
20 MR. DAVID MAKARCHUK: That's probably
21 not the right reason. If you notice from the
22 efficient frontier piece anyway and perhaps stochastic
23 showed me something different, but Basic 4 which
24 includes private debt is actually to the left of Basic
25 3, which means it had less volatility compared to

1 liabilities then Basic 3. It was -- and I might need
2 to look to MPI here for some help for my memory,
3 perhaps, either for liquidity or for cost reasons.
4 Also the challenge on private debt is
5 you don't know exactly what duration you're going to
6 get until well into the implementation stage. And so
7 I think that the way that MPI will ultimately deal
8 with this on implementation is once they figure out
9 what their private debt solution is, and it's going to
10 take them a year or two (2) to really understand what
11 duration they're getting out of the private debt
12 piece, then they can use the provincials that they
13 otherwise have to lengthened up or lengthened down to
14 get to the duration objectives that are there.
15 So that's a long answer to no rather
16 than yes.
17 MS. KATHLEEN MCCANDLESS: Thank you.
18 MR. GLENN BUNSTON: Maybe I could
19 clarify that we are not planning to invest in private
20 debt within the Basic claims' portfolio, and that was
21 a risk appetite decision made by our investment
22 committee.
23 MS. KATHLEEN MCCANDLESS: And if we go
24 to the next page of this document, which is Appendix -
25 - it's still Appendix X, but it's with respect to the

1 rate stabilization reserves.
2 So this represents the efficient
3 frontier for the RSR, yes?
4 MR. MARK GIESBRECHT: Yes, this is
5 RSR.
6 MS. KATHLEEN MCCANDLESS: And the
7 efficient frontier is based on an asset only approach?
8 MR. DAVID MAKARCHUK: Poss -- yes,
9 because there's no -- there's no liability here.
10 MS. KATHLEEN MCCANDLESS: Right. And
11 I understand that the line representing the blue
12 efficient frontier includes all asset classes in
13 current and current is in the table below.
14 MR. DAVID MAKARCHUK: Yes, this looks
15 like probably something developed for the exact same
16 time. There's a line with private debt and a line
17 without private debt.
18 MS. KATHLEEN MCCANDLESS: And then the
19 line representing the purple efficient frontier would
20 include the classes shown in the table?
21 MR. DAVID MAKARCHUK: Probably, yes,
22 with private debt probably being the only substantive
23 addition. Oh, no, this is RSR. My apologies.
24 So -- okay, let me -- let me get back
25 into my RSR space. Both lines include equities, the

1 purple one also includes private debt.
2 MS. KATHLEEN MCCANDLESS: Thank you.
3 And I understand that after analyzing the projections
4 and summary results, that portfolio RSE-1 was
5 selected.
6 MR. DAVID MAKARCHUK: From memory, as
7 I scan down it, that looks like the one, correct.
8 MS. KATHLEEN MCCANDLESS: And I
9 understand that's in part because of the high sharp
10 ratio?
11 MR. DAVID MAKARCHUK: I think that
12 would be one of the considerate factors. I think we
13 talked about the conservative, the balance, the growth
14 orientations that were otherwise here. I think there
15 was some qualitative trade-offs as MPI looked -- this
16 is probably one of the stochastic projections were
17 probably more helpful as well, in terms of the dollar
18 implications. Because again, we know they have a
19 duration target here.
20 The Sharpe ratio being the ratio of the
21 return relative to risk, if that's on the next page,
22 we might see that it was the highest. Is that on the
23 next page, perhaps? No, it's not.
24 It's quite plausible that one had the
25 highest Sharpe ratio, but I don't have that in front

1 of me at the moment.

2 MS. KATHLEEN MCCANDLESS: And so just
3 to clarify for the record, the Sharpe ratio, because I
4 did ask you about it, so the Sharpe ratio is the
5 average return earned in excess of the risk-free rate
6 per unit of volatility or total risk?

7 MR. DAVID MAKARCHUK: Right, it's the
8 -- it's the ratio of return to risk. That technical
9 definition is often times the one that's used.
10 Occasionally it will just be the total return minus
11 the total risk.

12 When we're doing things in an asset
13 only space, we don't always subtract the risk-free
14 return.

15 MS. KATHLEEN MCCANDLESS: Thank you.
16 Now, with respect to the recommended portfolio for
17 Basic, Mercer when it recommended the portfolio it was
18 based on a -- based on a nominal interest rate, it
19 found that the Basic 4 portfolio was preferred over
20 Basic 3 from Mercer's perspective, yes?

21 MR. DAVID MAKARCHUK: Quantitatively
22 Basic 4 was preferred over Basic 3, for sure.

23 MS. KATHLEEN MCCANDLESS: And that was
24 because it provided similar levels of return to 3, but
25 provided lower downside risk, is that right?

1 MR. DAVID MAKARCHUK: If you go up to
2 the chart, just a little bit more, yes, similar level
3 of return, a lower level of volatility.
4 MS. KATHLEEN MCCANDLESS: Thank you.
5 So with respect to the stochastic modelling results,
6 if we could go to Appendix 17 from the investment
7 section, attachment B, which is Mercer's ALM phase II
8 summary discussion. And page 19, which I believe is
9 slide 18.
10 We heard from you this morning about a
11 snapshot of MPI's basic liabilities, yes?
12 MR. DAVID MAKARCHUK: Correct, yes, we
13 saw the slide.
14 MS. KATHLEEN MCCANDLESS: And so the
15 approach followed by Mercer was to design a port -- a
16 portfolio to meet liabilities with the characteristics
17 that we see on the left-hand side of the page, yes?
18 MR. DAVID MAKARCHUK: Right, this is
19 the nominal liability benchmark and so this was
20 amongst the asset classes that were reasonable for the
21 study.
22 We felt that a portfolio of 28 percent
23 short provincial bonds, 18 percent midterm provincial
24 bonds and 54 percent long-term provincial bonds would
25 have a duration profile that was very similar to MPI's

1 Basic liabilities, assuming that they grow at 2
2 percent per annum, because of inflation.
3 MS. KATHLEEN MCCANDLESS: And at the
4 bottom of the page at the right-hand side we see risk
5 tolerance for Basic is very low if the RSR grows and
6 future risk tolerance could increase.
7 Is that right?
8 MR. DAVID MAKARCHUK: Right, so that
9 was a qualitative observation that MPI shared with us,
10 was that given the overall capitalization of the
11 Company at this point in time, the risk tolerance was
12 very low.
13 If perhaps the Company had more capital
14 to back, then perhaps there would be more risk
15 tolerance going forward. But that was not reflected -
16 - possible improvements in the RSR were not reflected
17 in the asset recommendation from Basic, so far as I'm
18 aware.
19 MS. KATHLEEN MCCANDLESS: Then if we
20 turn to slide 19, which is page 20. These are the
21 asset class objectives for Basic, and we heard a bit
22 about this this morning as well. Yes?
23 MR. DAVID MAKARCHUK: Correct.
24 MS. KATHLEEN MCCANDLESS: And so I
25 believe it's been well-established that the portfolio

1 is designed to meet a very low-risk tolerance
2 threshold, yes?
3 MR. DAVID MAKARCHUK: Correct.
4 MS. KATHLEEN MCCANDLESS: And there
5 are blanks for the return targets for one (1) year --
6 and for the one (1) year investment loss, yes?
7 MR. DAVID MAKARCHUK: Correct, yes.
8 MS. KATHLEEN MCCANDLESS: And were
9 those parameters discussed with MPI at all in
10 designing the portfolio?
11 MR. DAVID MAKARCHUK: They were in and
12 so this is a slide out of, I believe, our November
13 28th investment committee meeting. This was part of
14 the facilitation that happened as well. And this was
15 part of -- and I think I presented these slides
16 personally, but in front of the strategic committee
17 from my perspective -- and this is hard for all
18 strategic inv -- institutional investors, but to say,
19 if we can articulate as investors what an unacceptable
20 one (1) year loss is, then we can retrofit that to a
21 good asset allocation.
22 Or if we can say, all right, we need 2
23 1/2 percent per annum or we need 3 percent per annum
24 or we need 4, or we need 50 million on 1.79 billion,
25 then we can retrofit to what we actually need in terms

1 of a portfolio.
2 I think from memory we never actually
3 filled those -- those blocks in. I have had this
4 approach with many clients over the years. It's very
5 rare that we can actually come up with a number here,
6 but the point is to help make sure our strategic
7 investors understand philosophically what we should be
8 working toward, but these are really hard questions to
9 answer sometimes, so. So no, they were never filled
10 in, but you shouldn't feel bad about that, or you
11 shouldn't -- everyone shouldn't feel bad about that.
12 MS. KATHLEEN MCCANDLESS: Thank you.
13 Kristen, if we can go to slide 20, which is page 21 of
14 the PDF on the same document.
15 So these are the asset mix options
16 based on the stochastic modelling for the Basic
17 portfolio, is that right?
18 MR. DAVID MAKARCHUK: Right, so these
19 would have come out of the efficient frontier
20 analysis. We talked about this a few minutes ago,
21 these were the straw-dog portfolios that we did
22 further analysis after the qualitative and
23 quantitative learnings, and we did stochastic as well
24 as efficient frontier analysis on these four (4)
25 finalists, so to speak.

1 MS. KATHLEEN MCCANDLESS: And so the
2 four (4) finalists are compared to the Basic portfolio
3 which was currently held at the time?
4 MR. DAVID MAKARCHUK: Correct.
5 MS. KATHLEEN MCCANDLESS: And then
6 Basic 1, Basic 2, Basic 3 and Basic 4?
7 MR. DAVID MAKARCHUK: Correct.
8 MS. KATHLEEN MCCANDLESS: Basic 1,
9 what does the minimum risk portfolio represent?
10 MR. DAVID MAKARCHUK: So this would be
11 a portfolio and the reason it was chosen as a finalist
12 where we said, all right, so if MPI wants to mitigate
13 as much risk as possible, mitigate credit risk,
14 mitigate liquidity risk, reasonably if you really want
15 to mi -- mitigate liquidity risk you just go with
16 federal bonds.
17 But if you want to have as little risk
18 as possible, then that's why you might look at Basic
19 .1. And then iteratively as we go across the page, we
20 introduce additional levels of return enhancement and
21 risk.
22 Do you want me to walk through the
23 premise for each?
24 MS. KATHLEEN MCCANDLESS: That's fine,
25 I'll have specific questions about some of these,

1 thank you.
2 So the minimum risk portfolio at Basic
3 1, that's based on nominal interest rates, is that
4 right?
5 MR. DAVID MAKARCHUK: Correct, all of
6 the work for the November 28th committee was based on
7 a nominal liability benchmark.
8 MS. KATHLEEN MCCANDLESS: And why does
9 Basic 1 exclude MUSH bonds?
10 MR. DAVID MAKARCHUK: Because it was
11 an illustration of how little risk one could have if
12 we lived in what was somewhat of a hypothetical world,
13 and in theory there is a market for every single
14 security out there.
15 You may not like the price you get, but
16 if -- I don't know enough about the MUSH bonds
17 practically, but if MPI really wanted to sell the MUSH
18 bonds, presumably someone out there would take them
19 off their hands at some price. It was an
20 illustration. It wasn't really practical.
21 MS. KATHLEEN MCCANDLESS: So how did
22 Mercer determine the relative weightings of the fixed
23 income components across the different portfolio
24 options?
25 MR. DAVID MAKARCHUK: So this would've

1 been a meeting with MPI management/staff shortly after
2 the October 28 efficient frontier where we would have
3 had a back-and-forth.
4 It's quite plausible that we actually
5 gave an empty spreadsheet to MPI and said, so guys,
6 what do you want to do? What do you want to include
7 here? And it would've been a collaborative
8 discussion. Glenn might recall. I don't know whether
9 Mercer went first or MPI went first, but we agreed on
10 these four (4) finalists shortly after that meeting.
11 MS. KATHLEEN MCCANDLESS: Thank you.
12 If we go to slide 22, which is page 23 of the PDF. So
13 this is a chart depicting the expected surplus growth
14 for Basic one-year projections.
15 I believe that's based on the
16 stochastic modelling that was undertaken?
17 MR. DAVID MAKARCHUK: Correct.
18 MS. KATHLEEN MCCANDLESS: And could
19 you just at a very high level explain what this table
20 represents?
21 MR. DAVID MAKARCHUK: Sure. So now we
22 are extending a lot of the concepts for efficient
23 frontier -- excuse me -- to a dollar-oriented world
24 where we take the opening assets, the opening
25 liabilities, we project each of them based on the

1 inherent assumptions for each asset class, as well as
2 for each piece of the liability benchmark portfolio as
3 well.
4 And so we have a distribution for the
5 five (5) different options in terms of what we think
6 the best estimate would be so the black square that
7 you see on this page is the pictorial illustration of
8 what we expect the one-year surplus growth to be. It
9 is also highlighted in the purple box, or magenta box,
10 near the bottom, in terms of the median or 50th
11 percentile.
12 And so, across the different portfolios
13 and I prefer the table, some people prefer the chart,
14 but you see that the current surplus growth was
15 expected at $27 million per annum. Basic 1
16 practically would be zero because the assets
17 essentially are the liabilities. This is Basic 2, an
18 increment of 2 million, 6.4 for Basic 3, 5.9 for Basic
19 4. So that one is actually a little bit lower. Once
20 we got to the -- the stochastic projection.
21 We see in this chart also a dollar
22 illustration of the downside, as well as the upside.
23 And so you see in the current, while the current best
24 estimate is higher, the downside is significantly
25 lower.

1 And so different investors have
2 different downsides they like to consider. The
3 highlighted box here is on the 2 1/2 percentile range,
4 so a 5th percentile is generally a 1:20 result, and 2
5 1/2 was kind of a 1:40 result.
6 But you see that in -- in -- in that
7 downside there the current portfolio potentially could
8 lose $119 million, relative to liabilities based on
9 the assumptions that are inherent in the model.
10 The recommended portfolio, which is
11 Basic 3, the downside is still negative, but a lot
12 less at $38 1/2 million.
13 On the upside it's somewhat symmetric.
14 It could be as strong as $46 million. But generally
15 this puts into dollar context some of the
16 considerations that -- and the learnings from the
17 efficient frontier piece, so.
18 MS. KATHLEEN MCCANDLESS: And so we
19 see at the table at the bottom, if we compare the
20 results for Basic 3 and Basic 4.
21 MR. DAVID MAKARCHUK: Yep.
22 MS. KATHLEEN MCCANDLESS: At the
23 median or 50th percentile the return for Basic 3 is
24 $6.4 million, yes?
25 MR. DAVID MAKARCHUK: Expected growth

1 and surplus, correct.
2 MS. KATHLEEN MCCANDLESS: And for
3 Basic 4 it's $5.9 million?
4 MR. DAVID MAKARCHUK: Correct.
5 MS. KATHLEEN MCCANDLESS: So
6 relatively close in expected growth?
7 MR. DAVID MAKARCHUK: Yes.
8 MS. KATHLEEN MCCANDLESS: And then for
9 the 2.5 percentile at the bottom, so the downside
10 risk, we see for Basic 3 it's a loss of 38.5 million?
11 MR. DAVID MAKARCHUK: M-hm.
12 MS. KATHLEEN MCCANDLESS: And compared
13 to Basic 4, which is a loss of 23.9 million, yes?
14 MR. DAVID MAKARCHUK: Correct.
15 MS. KATHLEEN MCCANDLESS: Thank you.
16 MR. DAVID MAKARCHUK: So this puts
17 into dollar context what we saw in that efficient
18 frontier page a little bit earlier, that Basic 4
19 probably is less risky in the modelling perspective,
20 but it is a slightly lower return, I think it was
21 pretty close on the efficient frontier.
22 MS. KATHLEEN MCCANDLESS: Thank you.
23
24 (BRIEF PAUSE)
25

1 MS. KATHLEEN MCCANDLESS: So, if we
2 could go to slide 21, which is at page 22. I believe
3 this is a table that is reflected in the graph that we
4 just reviewed. Is that right?
5 MR. DAVID MAKARCHUK: Correct.
6 There's some efficient frontier numbers in here and
7 there's some stochastic numbers. Those kind of
8 headline slide.
9 MS. KATHLEEN MCCANDLESS: Okay. Thank
10 you. So, we can see at the top of the table for
11 expected return, Basic 3 optimizes one-year return at
12 3.12 percent, yes?
13 MR. DAVID MAKARCHUK: Correct.
14 MS. KATHLEEN MCCANDLESS: And so, when
15 compared to the current mix, at the left-hand side of
16 the table, it's lower. The current mix is 4.29
17 percent, yes?
18 MR. DAVID MAKARCHUK: Correct.
19 MS. KATHLEEN MCCANDLESS: And the
20 return is lower with respect to Basic 3 because they
21 are no growth as -- assets in the proposed portfolio,
22 as compared with what's in the current mix, yes?
23 MR. DAVID MAKARCHUK: That's the
24 primary driver of the fixed income slightly different,
25 as well.

1 MS. KATHLEEN MCCANDLESS: What is
2 meant by one (1) year surplus volatilities, so the
3 third line down in purple?
4 MR. DAVID MAKARCHUK: Sure. So, one
5 (1) year surplus volatility is the -- when we
6 considered the volatility of the assets in the Basic
7 1, 2, 3, or 4 portfolio, relative to the liabilities,
8 the liability benchmark in this case, the nominal one
9 in this case, it is the expected standard deviation of
10 the surplus volatility one year out.
11 So, you'll see in Basic 1 that that
12 number is zero, because it's the exact same asset
13 portfolio as the liability benchmark. And you'll see
14 that incrementally, there is slightly higher
15 volatility. Those numbers probably should be the
16 exact same as the efficient frontier chart that we saw
17 maybe fifteen (15) minutes ago in the green and the
18 blue bars there.
19 MS. KATHLEEN MCCANDLESS: And so with
20 respect to Basic 3, the value is significantly lower
21 than the current mix; 1.32 percent for Basic 3 versus
22 4.06 percent for the current mix, yeah?
23 MR. DAVID MAKARCHUK: Absolutely, yes.
24 MS. KATHLEEN MCCANDLESS: But it is
25 the highest among the four (4) portfolio options

1 reviewed, yes?
2 MR. DAVID MAKARCHUK: Correct, like
3 the expected return.
4 MS. KATHLEEN MCCANDLESS: Yes.
5
6 (BRIEF PAUSE)
7
8 MS. KATHLEEN MCCANDLESS: Kristen,
9 could you please pull up PUB MPI 1-85, page 2?
10 So, in this IR, MPI was asked for a
11 narrative description of the results of the asset mix
12 analysis that was presented in the slides that we just
13 reviewed, and the answer at page 2 under heading page
14 3 -- 23, is that MPI has indicated that Basic 3
15 portfolios, so the 1:40 downside -- year downside
16 risks so the 2.5th percentile is tolerable.
17 From your perspective, Mr. Makarchuk,
18 can you comment on what would be meant by tolerable
19 when you consider the difference in risk with the
20 Basic .4 portfolio?
21 MR. DAVID MAKARCHUK: I would suggest
22 that it's for MPI, not for Mercer to opine on.
23 MS. KATHLEEN MCCANDLESS: Thank you.
24 Mr. Bunston, can you provide any comment on that?
25

1 (BRIEF PAUSE)
2
3 MR. GLENN BUNSTON: Are you referring
4 to the 97.5 percent VaR number?
5 MS. KATHLEEN MCCANDLESS: Pardon me,
6 slide 22, so page 23 of the PDF. So, the 2.5th
7 percentile.
8 MR. GLENN BUNSTON: That's probably
9 technically the delta. If you go back up one slide,
10 at 22. It's probably the -- I think specifically,
11 it's the 45 million that you were referring to in the
12 question, right? The difference between the median
13 and the downside.
14 I only defer to MPI here because it's
15 not for me to judge what's tolerable; I think it's for
16 them.
17 MS. KATHLEEN MCCANDLESS: And that was
18 why I asked the question as to whether you -- Mercer
19 was able to comment. Thank you.
20
21 (BRIEF PAUSE)
22
23 MR. GLENN BUNSTON: So, to answer your
24 question, the -- the Basic 4 portfolio includes an
25 allocation of private debt, and our investment

1 committee decided they were uncomfortable with making
2 allocations to private debt.
3 So, notwithstanding the -- the VaR
4 numbers shown here being higher for the Basic 3
5 portfolio, they were just not comfortable with private
6 debt as an asset class and making allocations to
7 private debt. And so, the Basic 3 portfolio has the
8 highest expected return here. It does have higher
9 surplus volatility, and the VaR ratios are somewhat
10 higher for the Basic 3 portfolio.
11 If we look over a longer term at the
12 bottom of the page, we have five (5) year projections
13 there. And so, it shows the probability of -- of a
14 positive real return over five (5) years being
15 slightly higher for the Basic 3 portfolio. And the
16 probability of surplus in five (5) years being
17 slightly lower for the Basic 3 portfolio.
18 So, it was a -- really a risk decision
19 based on the -- the committee's appetite in terms of
20 asset classes they were comfortable investing in.
21 MS. KATHLEEN MCCANDLESS: If we could
22 please go to slide 23 from Appendix 17.
23 So, this is the expected surplus growth
24 for Basic on a five (5) year projection. And so, just
25 following on my question, Mr. -- or your answer, Mr.

1 Bunston, the table at the bottom I believe represents
2 the downside risk on a five (5) year basis and we can
3 compare Basic 3 and Basic 4. At the median we see the
4 growth at 32.3 million for Basic 3 and 29.6 million
5 for Basic 4, yes?
6 MR. GLENN BUNSTON: Yes, that's
7 correct.
8 MS. KATHLEEN MCCANDLESS: And then the
9 downside risk at the very bottom of the table, we have
10 a loss of $78.3 million for Basic 3 as compared to
11 $43.1 million loss or Basic 4, yes?
12 MR. GLENN BUNSTON: That's correct.
13 MS. KATHLEEN MCCANDLESS: And so,
14 again, the downside risk with respect to Basic 3 from
15 the Corporation's perspective is tolerable?
16 MR. GLENN BUNSTON: I think it is.
17 Bec -- the downside there is a -- is a 9 -- at a 97.5
18 percent confidence interval, so this would be a -- an
19 extreme event and a -- a very -- a rare event. So, I
20 think it's something that they we're comfortable with.
21 MS. KATHLEEN MCCANDLESS: So, if we go
22 back to the IR response that we were just reviewing.
23 So, the response here rege -- relates,
24 pardon me, to the projected surplus in one (1) year,
25 yes?

1 MR. GLENN BUNSTON: You're referring
2 to the last line in the...
3 MS. KATHLEEN MCCANDLESS: Yes.
4 MR. GLENN BUNSTON: ...last paragraph?
5 MS. KATHLEEN MCCANDLESS: Yes.
6 MR. GLENN BUNSTON: Correct.
7 MS. KATHLEEN MCCANDLESS: And so, the
8 Corporation repeat the same comment with respect to
9 the five (5) year projection then?
10 MR. GLENN BUNSTON: Yes.
11 MS. KATHLEEN MCCANDLESS: Thank you.
12
13 (BRIEF PAUSE)
14
15 MS. KATHLEEN MCCANDLESS: Kristen,
16 could you please pull up PUB MPI-1-34?
17 And at this IR, at the question, the
18 Corporation was asked to provide any support for the
19 Board's discussion, analysis conclusion, et cetera
20 that resulted in private debt, leverage bond funds,
21 and diversified growth funds being excluded from
22 consideration of all portfolios, yes?
23 MR. GLENN BUNSTON: Yes, that's right.
24 MS. KATHLEEN MCCANDLESS: And then if
25 we go to the response at the very end, last paragraph,

1 it states that:
2 "The Board of Directors' risk
3 tolerances is shaped by the
4 regulatory environment, the purpose
5 of each of the funds and the
6 requirement to avoid negatively
7 affecting the province's
8 consolidated financial statements."
9 Yes?
10 MR. GLENN BUNSTON: Correct.
11 MS. KATHLEEN MCCANDLESS: And so, can
12 you outline, bearing this in mind, MPI's risk
13 tolerance and how it was determined?
14
15 (BRIEF PAUSE)
16
17 MR. GLENN BUNSTON: So, our investment
18 committee and Board of Directors, their priority in
19 terms of the Basic claims' portfolio was to -- to
20 ensure that we had the capital available to pay claims
21 as they come due, and earning a return was secondary
22 to -- to that goal.
23 And so, they -- they wanted to try to
24 manage -- to minimize the nominal interest rate risk,
25 which is why the portfolio's a hundred percent

1 invested in fixed income.
2 And, they just -- they weren't
3 interested in investing in private debt. There was a
4 perception that private debt pro -- provided -- was a
5 risky asset class, and so despite the fact that the
6 this analysis shows that possibly for correlation
7 reasons that adding private debt may have been
8 beneficial, the investment committee members were not
9 comfortable with private debt as an asset class and so
10 it was excluded.
11 MS. KATHLEEN MCCANDLESS: Thank you.
12 My last few questions are for Mr. Makarchuk.
13 MPI's claims liabilities are indexed,
14 so, there is some exposure to inflation there, yes?
15 MR. DAVID MAKARCHUK: Correct.
16 MS. KATHLEEN MCCANDLESS: And based on
17 your knowledge of the -- MPI's current proposed claims
18 liability portfolio, what is the level of protection
19 from inflation that's afforded?
20 MR. DAVID MAKARCHUK: From memory,
21 it's -- I'll need MPI to clarify. I believe that it's
22 either tied to Manitoba CPI, sometimes average
23 industrial wage. I believe it's -- where it's
24 provided, it's pretty much full, CPI. Although I'd
25 appreciate a refresher from MPI for the record.

1 MR. LUKE JOHNSTON: Yeah, a
2 significant portion would be tied to Manitoba's CPI,
3 but there's other benefits that are tied to industrial
4 average wage, but I would say the -- the vast majority
5 would be Manitoba's -- like, so, income replacement
6 benefits indexation.
7 MS. KATHLEEN MCCANDLESS: Thank you.
8 Mr. Makarchuk, then, bearing that in mind, to have
9 some protection, would Mercer recommend some exposure
10 to real estate or inf -- infrastructure?
11 MR. DAVID MAKARCHUK: If an investor
12 indicated to me that protecting themselves to
13 inflation risk was a priority, my first recommendation
14 would be real return bonds as a starting point.
15 Real estate and infrastructure have
16 some inflation-linked capacity, but not near as much
17 as real return bonds do. They should provide it with
18 some return enhancement as well, but especially for
19 infrastructure, you're not going to find any
20 infrastructure project that pays Manitoba CPI and
21 tough to find anything with Canadian CPI. So, they're
22 other global, and while there might be good inflation-
23 linked global infrastructure projects out there, very
24 few of them, practically probably none of them, are
25 Canadian CPI linked.

1 So, the starting point would be real
2 return bonds. If they were a growth-motivated
3 investor, then I would tilt -- recommend tilting their
4 growth portfolio towards real estate infrastructure,
5 and things like that, but MPI and Basic, in
6 particular, didn't fit a profile of an investor that
7 was growth-oriented. So, we didn't really go very far
8 with the real estate or infrastructure conversations.
9 MS. KATHLEEN MCCANDLESS: Thank you.
10 Those are my questions for you, Mr. Makarchuk. Thank
11 you very much.
12 It is now just about 4 past 5:00 and,
13 I'll be moving into capital maintenance provision,
14 RSR, and DCAT tomorrow so.
15 THE CHAIRPERSON: Thank you. We will
16 adjourn right down 'til nine o'clock tomorrow morning.
17 Thank you.
18
19 --- Upon adjourning at 4:03 p.m.
20
21 Certified correct,
22
23 ____________________
24 Cheryl Lavigne
25