



“When You Talk - We Listen!”



MANITOBA PUBLIC UTILITIES BOARD

Re: MANITOBA PUBLIC INSURANCE CORPORATION (MPI)

2020/2021 GENERAL RATE APPLICATION

HEARING

Before Board Panel:

Irene Hamilton, QC - Board Chairperson

Robert Gabor, QC - Board Chair

Carol Hainsworth - Board Member

HELD AT:

Public Utilities Board

400, 330 Portage Avenue

Winnipeg, Manitoba

October 16, 2019

Pages 1301 to 1585

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1 --- Upon commencing at 9:05 a.m.

2

3 THE CHAIRPERSON: Good morning,
4 everyone. Thank you for the information that was
5 provided last night. Ms. McCandless has some
6 questions.

7 MR. STEVEN SCARFONE: Just before we
8 begin, I -- I see that Mr. Guerra has a number of
9 exhibits that he'd like to mark, and then we can begin
10 with the questions of Mr. Johnston.

11 THE CHAIRPERSON: Yes. Please
12 proceed.

13 MR. ANTHONY GUERRA: Yes. Thank you.
14 Good morning. We do have a number of exhibits.

15 Exhibit number 58 for MPI is the --
16 excuse me -- the updated rate -- interest rate
17 scenarios -- proposed interest rate scenarios for the
18 provisional rate indication.

19

20 --- EXHIBIT NO. MPI-58: Updated proposed interest
21 rate scenarios for the
22 provisional rate
23 indication

24

25 MR. ANTHONY GUERRA: MPI Exhibit

1 number 59 is the update to MPI's response to PUB-MPI
2 Information Request 1-35, Appendix number 1, which is
3 -- just to confirm, which is just the update to the
4 shadow portfolio returns versus actual portfolio
5 returns for the period March to August 2019.

6

7 --- EXHIBIT NO. MPI-59: Update to MPI's response
8 to PUB-MPI Information
9 Request 1-35, Appendix 1

10

11 MR. ANTHONY GUERRA: MPI Exhibit
12 number 60, which is the information technology
13 presentation for that panel, which we'll hear later
14 today.

15

16 --- EXHIBIT NO. MPI-60: Information technology
17 presentation

18

19 MR. ANTHONY GUERRA: MPI Exhibit
20 number 61, which is MPI's response to Undertaking
21 number 2.

22

23 --- EXHIBIT NO. MPI-61: Response to Undertaking 2

24

25 MR. ANTHONY GUERRA: Exhibit number 62

1 -- MPI Exhibit number 62, which is the service
2 delivery model presentation which we'll hear later
3 this week.

4

5 --- EXHIBIT NO. MPI-62: The service delivery model
6 presentation

7

8 MR. ANTHONY GUERRA: And then finally,
9 MPI Exhibit number 63, which is Appendix number 1 to
10 the service delivery model presentation, which is
11 specifically dealing with the issue of insurance
12 broker commissions. Thank you.

13

14 --- EXHIBIT NO. MPI-63: Appendix number 1 to the
15 service delivery model
16 presentation, which is
17 specifically dealing with
18 the issue of insurance
19 broker commissions

20

21 THE CHAIRPERSON: Thank you. Ms.
22 McCandless...?

23

24 CONTINUED MPI PANEL NO.5:

25

LUKE JOHNSTON, PREVIOUSLY AFFIRMED

1 TAI PHOA, PREVIOUSLY SWORN

2

3 RE-CROSS-EXAMINATION BY MS. KATHLEEN MCCANDLESS:

4 MS. KATHLEEN MCCANDLESS: Thank you.

5 And Mr. Johnston, Mr. Phoa, I'm going to have some
6 questions about MPI Exhibit number 58, which was filed
7 at the end of the day yesterday.

8 First, Kristen, could we please collect
9 Exhibit PUB-19.

10

11 (BRIEF PAUSE)

12

13 MS. KATHLEEN MCCANDLESS: Thank you.

14 And so just to confirm for the record, this is what
15 the Board directed MPI to file in respect of the
16 process for the provisional rate indication this year.

17 Are you familiar with this, Mr.
18 Johnston?

19 MR. LUKE JOHNSTON: Yes.

20 MS. KATHLEEN MCCANDLESS: And so
21 looking at the screen before us, we note that the
22 Board directed that MPI file within four (4) business
23 days of September 30, 2019, the following schedules as
24 exhibits to the application. So 1), a major cost
25 summary report; 2), Pro Forma financial statements 1

1 to 3; and 3), overall in major class required rate
2 changes with and without any capital related
3 provisions with supporting schedules.

4 And then below those, the Board
5 directed that MPI -- that the exhibits include updates
6 based on the Naive Standard Interest Rate, or SIRF,
7 and the 50/50 forecasts, yes?

8 MR. LUKE JOHNSTON: Yes.

9 MS. KATHLEEN MCCANDLESS: And the
10 Board also directed at -- that MPI file along with the
11 Exhibits Items 1 to 3, a summary of the changes to the
12 various interest rate forecasts with accompanying
13 narrative resulting from the interest rate update and
14 to the financial results reflected in the updated pro
15 forma financial statements, yes?

16 MR. LUKE JOHNSTON: Yes.

17 MS. KATHLEEN MCCANDLESS: And the
18 narrative should also provide information as to any
19 resulting material changes to Information Request
20 responses based on the original provisional interest
21 rate forecast, yes?

22 MR. LUKE JOHNSTON: Yes.

23 MS. KATHLEEN MCCANDLESS: Thank you.

24 And so if we could turn to MPI Exhibit number 58, and
25 there should be a covering letter accompanying that,

1 Kristen. So if you have that, we could just put that
2 up on the screen.

3 The Board did receive some information
4 in response to PUB-19 on October 4th, and the
5 remainder of the information was filed yesterday, yes?

6 MR. LUKE JOHNSTON: Yes.

7 MS. KATHLEEN MCCANDLESS: And so what
8 was filed yesterday or put on the record this morning
9 was we see before us at Items 1 to 6. So for each of
10 the following scenarios, MPI provided figures RM-12,
11 and a set of pro formas and Extension pro formas. So
12 with a number of different Government of Canada ten
13 (10) year bond rates, yes?

14 MR. LUKE JOHNSTON: Yes.

15 MS. KATHLEEN MCCANDLESS: The standard
16 interest rate forecast current to September 30, 2019?

17 MR. LUKE JOHNSTON: Correct.

18 MS. KATHLEEN MCCANDLESS: And the
19 50/50 interest rate forecast current to September 30,
20 2019, yes?

21 MR. LUKE JOHNSTON: Yes.

22 MS. KATHLEEN MCCANDLESS: Thank you.

23 Now Kristen, I'm sorry to make you jump around, but if
24 we could please go to MPI Exhibit 44, Appendix 1.

25

1 (BRIEF PAUSE)

2

3 MS. KATHLEEN MCCANDLESS: That's
4 right. Thank you. So these are interest rate
5 forecasts for SIRF, Naive, and 50/50 on the Government
6 -- Government of Canada ten (10) year bond forecast,
7 yes?

8 MR. LUKE JOHNSTON: That's right.

9 MS. KATHLEEN MCCANDLESS: And if we
10 jump to Appendix 1, Figure INV-13 of MPI number 58, so
11 it should just be the first page after the covering
12 letter.

13

14 (BRIEF PAUSE)

15

16 MS. KATHLEEN MCCANDLESS: We see on
17 the left-hand side of the screen here, starting at
18 line 1, the new money yield, yes?

19 MR. LUKE JOHNSTON: Yes.

20 MS. KATHLEEN MCCANDLESS: And then
21 jumping back to MPI Exhibit number 44, on the right-
22 hand side of the screen, we see reference to interest
23 rates. We have SIRF, Naive, and 50/50, yes?

24 MR. LUKE JOHNSTON: That's -- that's
25 right.

1 MS. KATHLEEN MCCANDLESS: Can you
2 confirm that the interest rates used for the SIRF and
3 50/50 scenarios in MPI-58 are equal to those provided
4 in the screen before you?

5 I appreciate the numbers are different,
6 but perhaps you could explain what that difference is.

7

8 (BRIEF PAUSE)

9

10 MR. LUKE JOHNSTON: Yes. So the --
11 our actual fixed income portfolio isn't only
12 Government of Canada ten (10) year bonds. We select
13 our -- our discount rate for rate-setting purposes
14 based on our -- using our Basic claims fixed income
15 portfolio, which -- which has provincial and corporate
16 bonds in -- in that portfolio, and others generally
17 spread above the -- the Government of Canada ten (10)
18 year bond for other types of bonds.

19 So the -- the spread -- when we select
20 a spread -- so, for example, corporate bonds, we'll
21 have a higher yield than the government bond. There's
22 a spread assumption in -- in our model. And that
23 applies to the -- on top of the Government of Canada
24 ten (10) year bond focus.

25 MS. KATHLEEN MCCANDLESS: And so for

1 which period was the interest rate used? Was it 2020
2 Q2 it was incorporated into the interest rates that we
3 find at MPI-58?

4

5 (BRIEF PAUSE)

6

7 MR. LUKE JOHNSTON: Sorry. Can you
8 repeat that question?

9 MS. KATHLEEN MCCANDLESS: Which
10 interest rate period did the Corporation use for its
11 modeling purposes? So at MPI-44, we have -- it starts
12 at Q3 of 2019, goes through to 2023 Q4, yes?

13

14 (BRIEF PAUSE)

15

16 MR. LUKE JOHNSTON: So is the --
17 sorry, is the question for rate-making purposes, what
18 point in time we used for this chart?

19 MS. KATHLEEN MCCANDLESS: Yes.

20 MR. LUKE JOHNSTON: Yeah. So Q2 2020.
21 Sorry, I was confused on the question. I was like, I
22 -- we use the interest rates as of now, but I --
23 sorry, it was for rate-making purposes. Yeah.

24 MS. KATHLEEN MCCANDLESS: Yes. Thank
25 you. So if we could go to MPI Exhibit 58, and page 1.

1 Thank you.

2 So could you please confirm that for
3 all the scenarios listed, that the capital build
4 provision and all MCT values do not reflect the
5 current year update, which was provided in MPI Exhibit
6 number 42?

7 MR. LUKE JOHNSTON: Yes, we've -- what
8 you have here is the original GRA as filed in June,
9 updated for the latest interest rates, and then
10 modified for the requested scenarios.

11 We are looking at to how to update the
12 model for the -- the '19/'20 forecast update that we
13 did. There's some complexity to that, because we
14 obviously have a -- a midyear adjusted model. So we
15 are looking at that.

16 I guess -- yeah, this -- this output
17 will give you a sense of the sensitivity to the
18 requested results, but the -- the capital build and
19 release provisions will be based on the -- on the
20 previous GRA forecast.

21 MS. KATHLEEN MCCANDLESS: So to
22 confirm, then, they're based on 2020-FB and not the
23 2020-P that we've been looking at?

24 MR. LUKE JOHNSTON: Correct.

25

1 (BRIEF PAUSE)

2

3 MR. LUKE JOHNSTON: We are working on
4 that version. And I'm hearing from the back row that
5 a little more work than this one, but -- but we can do
6 it within a reasonable amount of time.

7 And I -- I don't really like taking
8 more undertakings, but this is obviously our -- the
9 case we're asking for, so I would like to have that on
10 the record. So we -- we're going to continue working
11 on that.

12 MS. KATHLEEN MCCANDLESS: Thank you.
13 Then I think to put it on the record, we should
14 confirm that MPI's undertaking to provide an update to
15 MPI number 58, based on the current year update as
16 shown in Exhibit -- MPI Exhibit number 42?

17 MR. ANTHONY GUERRA: Yes. Just to
18 confirm, it's MPI Exhibit number 58. Yes.

19 MS. KATHLEEN MCCANDLESS: Thank you.

20

21 --- UNDERTAKING NO. 22: MPI to provide an update
22 to MPI number 58, based on
23 the current year update as
24 shown in MPI Exhibit 42

25

1 CONTINUED BY MS. KATHLEEN MCCANDLESS:

2 MS. KATHLEEN MCCANDLESS: So could you
3 confirm then the naive forecast is the indicated rate
4 of a rate reduction of point six (0.6) but with
5 one (1) more decimal place shown here at line 1?

6 MR. LUKE JOHNSTON: That's right.

7 MS. KATHLEEN MCCANDLESS: Why are the
8 scenarios provided with capital bill provisions given
9 the Corporation's indication that no capital bill
10 provision was needed in the October 4th update?

11 MR. LUKE JOHNSTON: So the model -- we
12 built the capital management plan into our modeling.
13 And prior to the update -- the October 4th update
14 where our -- our financial position had improved, this
15 is the -- what the model output would have looked like
16 had we not changed our forecast for that updated
17 information.

18 MS. KATHLEEN MCCANDLESS: So what
19 information has been updated in the MCT values shown?

20 MR. LUKE JOHNSTON: The -- the MCT
21 values reflect -- really reflect everything from the
22 original filing and -- and then the interest rate
23 update and -- and along with -- well, any other rate
24 change or capital build that's shown in the -- in the
25 tables.

1 And then as you -- as you move along
2 you can see the -- there's the break-even indication
3 on its own, then we show the impact of Extension
4 transfers, and then the -- the assumed build for lease
5 provision.

6 So when we update the -- the model for
7 the -- the '19/'20 forecast update, all these MCT
8 ratios will slide up a notch, and of course, there'll
9 be different capital build release indications at --
10 at that stage. Yeah.

11 MS. KATHLEEN MCCANDLESS: Can you
12 please confirm that the impact on the current
13 indication of a rate reduction of 5.6 percent of
14 moving from the naive interest rate forecast to 50/50
15 forecast would be to decrease the rate indication by
16 thirty-five (35) basis points to a 0.91 percent rate
17 reduction?

18 MR. LUKE JOHNSTON: That's right.

19 MS. KATHLEEN MCCANDLESS: And the
20 corresponding impact to move to the standard interest
21 rate forecast would be to decrease the rate indication
22 by sixty-eight (68) basis points to a 1.24 percent
23 rate reduction?

24 MR. LUKE JOHNSTON: That's correct.

25 MS. KATHLEEN MCCANDLESS: And could

1 you also confirm that the impact on the current
2 indication of 0.56 percent rate reduction of moving
3 the interest rate forecast down by twenty-five (25)
4 basis points would be to increase the rate indication
5 by sixty-two (62) basis points to a rate increase of
6 0.06 percent at line 7?

7 MR. LUKE JOHNSTON: Correct.

8 MS. KATHLEEN MCCANDLESS: And the
9 corresponding impact to move the interest rate
10 forecast down fifty (50) basis points would be to
11 increase the indication by one hundred and twenty-two
12 (122) basis points to a rate increase of 0.66 percent?

13 MR. LUKE JOHNSTON: Correct.

14 MS. KATHLEEN MCCANDLESS: And
15 similarly, the impact on the current indication of a
16 rate reduction of 0.56 percent of moving the interest
17 rate forecast up twenty-five (25) basis points would
18 be to decrease the indication by fifty-eight (58)
19 basis points to a rate decrease of 1.14 percent at
20 line 8?

21 MR. LUKE JOHNSTON: That's right.

22 MS. KATHLEEN MCCANDLESS: And to move
23 it up fifty (50) basis points at line 6 would be to
24 decrease the rate indication by one hundred and
25 sixteen (116) basis points to a rate reduction of

1 1.72 percent?

2 MR. LUKE JOHNSTON: That's right.

3 MS. KATHLEEN MCCANDLESS: So what
4 we've then just discussed now is an illustration of
5 the sensitivity of the rate indication to changes in
6 interest rates, yes?

7 MR. LUKE JOHNSTON: That's -- that's
8 right. And I guess what I'd -- what I'd add to this
9 charge which is probably helpful for everyone to
10 understand is the first line -- line 1 naive forecast.

11 If the maintenance provision was not in
12 the original application and we updated only for
13 interest rates, the indication and -- sorry -- and we
14 didn't have a forecast revision update, we'd have the
15 negative zero point five six (0.56) rate change, and
16 the capital management plan would trigger about a
17 1.19 percent build provision. So the -- which is
18 obviously less than the capital maintenance provision
19 that was in -- in the original ask.

20 Our forecast update is -- is basically
21 saying we think we're close enough to a hundred
22 percent MCT that we don't need to ask for this build
23 provision or the original maintenance provision, but
24 we'll file updated information to show -- to show
25 that.

1 MS. KATHLEEN MCCANDLESS: Okay.

2

3 (BRIEF PAUSE)

4

5 MR. LUKE JOHNSTON: I'm told I might
6 have misspoke. The capital maintenance provision -- I
7 should have said 2.06 percent. I -- I don't know what
8 I said, but yeah.

9 MS. KATHLEEN MCCANDLESS: So are you
10 able to express the sensitivity of the rate indication
11 to interest rates in terms of a rule of thumb? I
12 think you may have expressed that in past GRAs. I
13 just wanted to confirm.

14

15 (BRIEF PAUSE)

16

17 MR. LUKE JOHNSTON: Yeah, so right
18 now, it looks like about every ten (10) basis points,
19 and the new money yield is about twenty (20) basis
20 point change on the -- the rate indication. I'm told
21 that as we start approaching these ultra-low interest
22 rates, that there's some kind of -- it's not as one
23 (1) to one (1) as it used to be. Like, this -- this -
24 - there's convexity without having to explain that.
25 But in general, that's a -- yeah.

1 MS. KATHLEEN MCCANDLESS: Thank you.

2 Last year, this Board approved the rate indication
3 based on a naive interest rate forecast?

4 MR. LUKE JOHNSTON: That's correct.

5 MS. KATHLEEN MCCANDLESS: And this
6 year, the Corporation's proposing that a naive
7 interest rate forecast be used again?

8 MR. LUKE JOHNSTON: Yes. We continue
9 to support that approach. Yes.

10 MS. KATHLEEN MCCANDLESS: Now, are you
11 able to give a sense directionally that if the Board
12 had approved a rate based on, say, a 50/50 or a SIRF
13 interest rate forecast, how that might have affected
14 MPI's financial position?

15 MR. LUKE JOHNSTON: If -- if you can
16 just give me a moment, just if I get -- if we have the
17 -- what that would have been last year compared to
18 what the -- the Board actually approved and then what
19 actually happened, we can -- we can quite easily
20 summarize that. I'm guessing I'm not going to be able
21 to do that in my head right -- right now.

22 MS. KATHLEEN MCCANDLESS: I -- I do
23 recall the reference, which was MPI Exhibit number 26
24 from the 2019 GRA -- was the -- was essentially what's
25 been filed as -- pursuant to the provisional rate

1 indication. I don't know if that provides you with
2 any assistance.

3 MR. LUKE JOHNSTON: There -- yeah,
4 there's no question at all that the -- the use of a
5 50/50 or a SIRF last year would have resulted in
6 premiums -- based on what we know today, that weren't
7 -- weren't high enough. It would have put us in a
8 worse financial position than the -- than the approved
9 naive. The actual dollar impact -- that I can't
10 calculate right now, but we can definitely do that if
11 that's of interest.

12 MS. KATHLEEN MCCANDLESS: If you're
13 able to do that, then if that could be done by way of
14 undertaking, that would be appreciated.

15 MR. STEVEN SCARFONE: Yeah, we can
16 undertake to do that, Ms. McCandless.

17 So can you -- can you read --

18 MS. KATHLEEN MCCANDLESS: Restate it?

19 MR. STEVEN SCARFONE: -- the
20 undertaking into --

21 MS. KATHLEEN MCCANDLESS: Yes.

22 MR. STEVEN SCARFONE: -- the record?

23 MS. KATHLEEN MCCANDLESS: So the
24 undertaking would be to provide information as to the
25 financial impact to the Corporation of a rate

1 indication in the 2019 GRA based on a standard
2 interest rate forecast or a 50/50 forecast.

3 MR. LUKE JOHNSTON: Yes, we can do
4 that.

5 MS. KATHLEEN MCCANDLESS: Thank you.

6
7 --- UNDERTAKING NO. 23: MPI to provide information
8 as to the financial impact
9 to the Corporation of a
10 rate indication in the
11 2019 GRA based on a
12 standard interest rate
13 forecast or a 50/50
14 forecast

15
16 MS. KATHLEEN MCCANDLESS: Thank you.
17 Those are all our questions.

18 MR. LUKE JOHNSTON: Thank you.

19 BOARD MEMBER GABOR: I've just got one
20 (1) question, Mr. Johnston. Following up on what Ms.
21 -- Ms. McCandless asked, if we wanted to find out the
22 impact on the current year, what time next year, in
23 2020, would you have the available financial
24 information?

25

1 (BRIEF PAUSE)

2

3 MR. LUKE JOHNSTON: So really, once we
4 know the Board's order and how rates have been set, we
5 can really update what we think the impact will be at
6 any time based on the prevailing interest rates. So -
7 - so if -- if an order's made on SIRF and we -- we
8 were to use 2.50 percent as a new money rate, and then
9 three (3) months from now, that's risen to 3.00
10 percent, we could estimate in the mo -- in our model
11 the impact that that would -- would have if we had set
12 rates at three (3). Yeah.

13 BOARD MEMBER GABOR: Okay, thank you.

14 THE CHAIRPERSON: Mr. Scarfone, do you
15 have any questions?

16 MR. STEVEN SCARFONE: I have no
17 questions, Madam Chair.

18 THE CHAIRPERSON: Thank you. I think
19 that completes this panel. Thank you very much for
20 your participation.

21 And we are now waiting the arrival of
22 Mr. Makarchuk.

23 MR. STEVEN SCARFONE: I'm told his --
24 his plane has touched down, so he's probably in his
25 taxicab as we speak.

1 THE CHAIRPERSON: Okay. We'll
2 adjourn, and if you could let us know when he arrives,
3 we'll carry on with him.

4 MR. STEVEN SCARFONE: Very good.
5 Thank you.

6 THE CHAIRPERSON: Thank you.

7

8 (PANEL STANDS DOWN)

9

10 --- Upon recessing at 9:26 a.m.

11 --- Upon resuming at 9:52 a.m.

12

13 THE CHAIRPERSON: Mr. Scarfone...?

14 MR. STEVEN SCARFONE: Thank you, Madam
15 Chair. Just before we begin with our next witness, we
16 had forgotten until we were reminded that we had
17 missed filing four (4) exhibits. So Mr. Guerra's
18 going to mark those, they'll be out of sequence, and
19 then we'll carry on.

20 MR. ANTHONY GUERRA: I send my
21 apologies that these will be out of sequence. So to
22 begin, we're -- we are now addressing MPI Exhibit
23 number 54, which is MPI's response to Undertaking
24 number 1.

25

1 --- EXHIBIT NO. MPI-54: Response to Undertaking 1

2

3 MR. ANTHONY GUERRA: MPI Exhibit
4 number 55, which is MPI's response to Undertaking
5 number 3.

6

7 --- EXHIBIT NO. MPI-55: Response to Undertaking 3

8

9 MR. ANTHONY GUERRA: MPI Exhibit
10 number 56, which is MPI's response to Undertaking
11 number 6.

12

13 --- EXHIBIT NO. MPI-56: Response to Undertaking 6

14

15 MR. ANTHONY GUERRA: And finally, MPI
16 Exhibit number 57, which is Part 8 of the Appendix
17 number 4, which is MPI's Annual Business Plan for
18 '19/2020.

19

20 --- EXHIBIT NO. MPI-57: Part 8 of Appendix 4,
21 MPI's Annual Business Plan
22 for '19/2020

23

24 THE CHAIRPERSON: Thank you.

25 MR. STEVEN SCARFONE: Thanks, Anthony.

1 So we have here this morning, as the panel is aware,
2 Mr. Makarchuk from the Mercer firm. We'll have him
3 sworn in, or affirmed. And beside him is MPI's
4 manager for investments, previously sworn, and, Mr.
5 Bunston will be here to assist the panel with any
6 questions people may have concerning investments in
7 the shadow portfolios.

8

9 MPI PANEL NO. 6:

10 DAVID MAKARCHUK, SWORN

11 GLENN BUNSTON, PREVIOUSLY AFFIRMED

12

13 EXAMINATION-IN-CHIEF BY MR. STEVEN SCARFONE:

14 MR. STEVEN SCARFONE: Good morning,
15 Mr. Makarchuk.

16 MR. DAVID MAKARCHUK: Good morning.

17 MR. STEVEN SCARFONE: Welcome back,
18 sir. Of course, you were here last year to give
19 evidence concerning MPI's implementation of its asset
20 liability management study, correct?

21 MR. DAVID MAKARCHUK: Correct.

22 MR. STEVEN SCARFONE: And sir, you're
23 back this year in connection with some shadow
24 portfolios that your firm was engaged to create at the
25 request of the Public Utilities Board, correct?

1 MR. DAVID MAKARCHUK: Correct.

2 MR. STEVEN SCARFONE: And Mr.

3 Makarchuk, can you just provide some background
4 information, if you can, sir, on the development of
5 the shadow portfolios and who it was that you
6 consulted with in designing those portfolios?

7 MR. DAVID MAKARCHUK: Sure. So
8 through the asset mix review, the Corporation chose
9 certain portfolios throughout the Basic portfolio, as
10 well as the FB portfolio. Through the process of the
11 discussion, there was two (2) different -- several
12 different asset mixes that were contemplated.

13 We've identified two (2) different
14 shadow portfolios for each of the portfolios that
15 plausibly would have been landing points, had the
16 Corporation either chosen to hedge real as opposed to
17 nominal interest rate risk -- that's essentially
18 portfolios 1 and 3 -- or had the portfolio not had any
19 constraints on growth assets and implementation
20 methods. And that's practically portfolios 2 and 4.

21 So they are both theoretical portfolios
22 that might have been where the Corporation had landed,
23 had they had a different set of investment beliefs or
24 objectives.

25 MR. STEVEN SCARFONE: Okay. So thank

1 you for that. So let me just back you up. And just
2 to for historical -- or some background information,
3 under the asset liability management study that Mercer
4 recommended for MPIC, the Corporation moved from a co-
5 mingled investment portfolio into segregated
6 portfolios, correct?

7 MR. DAVID MAKARCHUK: Correct.
8 Different portfolios for different pieces of the
9 Corporation.

10 MR. STEVEN SCARFONE: Yes. And my
11 recollection from the application is that there were
12 five (5) such portfolios.

13 Is that right?

14 MR. DAVID MAKARCHUK: Correct.

15 MR. STEVEN SCARFONE: But the shadow
16 portfolios that Mercer designed were just for the --
17 to compare two (2) of those portfolios?

18 MR. DAVID MAKARCHUK: Yeah. I believe
19 the PUB Order was just for two (2).

20 MR. STEVEN SCARFONE: Yes, one (1) of
21 which was the Basic claims portfolio --

22 MR. DAVID MAKARCHUK: Correct.

23 MR. STEVEN SCARFONE: -- and one (1)
24 of which was the employee future benefits portfolio,
25 or the -- the pension portfolio, correct?

1 MR. DAVID MAKARCHUK: Correct.

2 MR. STEVEN SCARFONE: And for each of
3 those two (2) portfolios, there was a shadow portfolio
4 constrained and unconstrained.

5 Is that correct?

6 MR. DAVID MAKARCHUK: Correct. That's
7 the terminology we --

8 MR. STEVEN SCARFONE: Yes. And so
9 before we get into the -- the portfolios themselves,
10 sir, can you say if the -- if Mercer has been engaged
11 or you've been engaged to create these kind of shadow
12 portfolios for other clients?

13 MR. DAVID MAKARCHUK: In some
14 respects, this is a bit of a unique situation, but
15 often times, you might have a oversight group, whether
16 it's pensions, or insurance, or other assets that may
17 have different ideas. And so this is methodology we
18 would otherwise use in other situations like that.

19 MR. STEVEN SCARFONE: And -- and in
20 those other situations, is it used to compare the
21 performance against an actual portfolio, like -- like
22 we're doing here?

23 MR. STEVEN SCARFONE: To draw
24 reasonable inferences from it, we often times want to
25 segregate -- or separate those different pieces. So

1 we see the difference in the policy decisions versus
2 the difference in actual performance.

3 MR. STEVEN SCARFONE: Okay. And so
4 following up on those comments, then, sir, what is the
5 utility of -- of these shadow portfolios as it
6 concerns the order that was made by the Public
7 Utilities Board after your engagement?

8 MR. DAVID MAKARCHUK: The -- the
9 shadow portfolios will help illustrate the performance
10 of different strategy decisions over periods of time.
11 As to what their utility, is there's different
12 perspectives one might have on that. It's one of
13 those situations where, from our perspective, because
14 of the different perspectives on risk, especially in
15 the unconstrained pieces, one really needs to look to
16 a full-market cycle, which is generally five (5) years
17 or more, before you can start to draw reasonable
18 conclusions as to the relative benefits of one versus
19 the other.

20 In the very short term, while there
21 will be differences, it's extremely difficult to draw
22 any strong conclusions in that regard.

23 MR. STEVEN SCARFONE: Okay. And so
24 you mentioned five (5) years. Is there a particular
25 reason why you picked that timeline to make a fair

1 comparison against the shadow portfolios?

2 MR. DAVID MAKARCHUK: So I think I
3 said generally five (5) years. We generally like to
4 say a full market cycle. This last market cycle, one
5 can argue, we're on year 10, year 9 or 10. We in --
6 you know, been -- been a bull market for the long
7 period of time.

8 So five (5) years generally, on
9 average, is kind of the cycle between a boom -- or
10 between a top and a bottom of the cycle. Sometimes
11 it's shorter. Sometimes it's longer.

12 The point I'm trying to make is that in
13 a situation where the markets either -- are either in
14 a short situation, or a situation where markets have
15 just been rising, or markets have just been following,
16 it would be extremely premature to draw any
17 conclusions as to the relative benefits of one
18 portfolio versus another.

19 MR. STEVEN SCARFONE: Okay. So we're
20 going to go through each of the shadow portfolios.

21 Kristen, could you please pull up MPI
22 Exhibit number 59, please.

23 And this, Madam Chair, is an update to
24 PUB under Information Request 1-35 Appendix number 1,
25 which had provided the performance of the shadow

1 portfolios for just two (2) months, March and April.
2 We've now updated the performance of the shadow
3 portfolios until the end of August. So we now have
4 six (6) months for the -- for the Board to -- to look
5 at and have Mr. Makarchuk explain how these portfolios
6 performed as against MPI's actual portfolio.

7 So just to be clear, sir, this six (6)
8 months that we're going to review here shortly, in
9 your view, is too short a time frame to make a fair
10 comparison against MPI's actual portfolios?

11 MR. DAVID MAKARCHUK: To draw
12 conclusions about -- it's too short a timeline to draw
13 any conclusions about what one should do going
14 forward.

15 Even if we went for a full market
16 cycle, say, five (5) years or so, just because one (1)
17 portfolio outperformed the other does not necessarily
18 suggest that that lead portfolio -- that -- whichever
19 portfolio was -- was higher -- is the best portfolio
20 for the next five (5) years, for example.

21 All this demonstrates is that certain
22 portfolios so far have performed higher given the
23 market cycle that we've seen the last six (6) months,
24 or the six (6) months illustrated here, have been
25 extremely unique in some regards. These are really

1 high returns for a six month profile, the special and
2 the fixed income.

3 I will almost guarantee you that the
4 next six (6) months will not be nearly this high,
5 regardless of which idea it is.

6 MR. STEVEN SCARFONE: I thought
7 investment people weren't supposed to make guarantees?

8 MR. DAVID MAKARCHUK: I almost
9 guarantee, okay?

10 MR. STEVEN SCARFONE: So I'll bring
11 you to line 4. That the Basic portfolio that MPIC
12 currently has in place, correct?

13 MR. DAVID MAKARCHUK: That's my
14 understanding.

15 MR. STEVEN SCARFONE: And it's
16 comprised of 100 percent fixed income assets?

17 MR. DAVID MAKARCHUK: I believe that
18 we've taken all the -- I'll ask Glenn to confirm, but
19 I believe there's no fixed income in as of March.

20 MR. GLENN BUNSTON: No, the Basic
21 portfolio is comprised of 100 percent fixed income.

22 MR. DAVID MAKARCHUK: It is?

23 MR. GLENN BUNSTON: Yes.

24 MR. STEVEN SCARFONE: And so the
25 return on that, we see from March to August 2019 is 7

1 percent. Is that --

2 MR. DAVID MAKARCHUK: That's what it
3 says, yeah.

4 MR. STEVEN SCARFONE: Okay. So can
5 you explain, then, sir, the other three (3) lines,
6 which I understand -- or at least the first two (2)
7 are the Basic shadow portfolios that the Mercer firm
8 designed under the PUB Order?

9 MR. DAVID MAKARCHUK: Sure, that's
10 right. So lines 1 and 2 are the shadow portfolios.
11 It's actually instructive to start with line 3.

12 Line 3 is the passive return on the
13 Basic portfolio. It's our understanding that there's
14 been some imple -- implementation delays in getting to
15 the actual desired Basic portfolio over this time
16 period.

17 But for fair comparison of the Basic
18 portfolio, it's our recommendation that we simply look
19 at the passive indices both for the Basic port -- for
20 the shadow portfolios, as well as for what we're
21 calling the Basic portfolio, or the actual Basic
22 portfolio.

23 MR. STEVEN SCARFONE: So just to
24 interrupt, what do you mean by passive?

25 MR. DAVID MAKARCHUK: Right. So the -

1 - that is the -- the underlying index returns. The
2 Basic portfolio consists of some provincial bonds,
3 some corporate bonds, some MUSH bonds. It's the --
4 it's the index that is otherwise possible for
5 investors to invest in on a passive basis that best
6 represents that portfolio. Does that help?

7 MR. STEVEN SCARFONE: It doesn't help
8 me, but it may help people in the room. So passive
9 versus active.

10 Is that fair? So active management of
11 the portfolio?

12 MR. DAVID MAKARCHUK: Active
13 management with the portfolio is certainly one (1) of
14 the differences between line 3 and 4. It's also taken
15 some time, my understanding, for -- for the
16 Corporation to phase to the exact asset mix.

17 So the exact asset mix of the -- of
18 line 3 is the asset mix that the Corporation approved
19 as part of the asset mix study. Line 1 is the asset
20 mix that we illustrated as part of the unidentified
21 and Shadow Portfolio 1.

22 So we'll -- all of lines 1, 2, and 3
23 are on a apples to apples basis. They're all the
24 underlying indices in the portfolio ideas. Line 4 is
25 the actual investments of MPI. And as you'll see, the

1 difference between lines 3 and 4, there was a
2 difference in the returns.

3 MR. STEVEN SCARFONE: Right. I've got
4 you. And -- and we say that over on the far right
5 side, the negative 3.17 percent?

6 MR. DAVID MAKARCHUK: Correct.

7 MR. STEVEN SCARFONE: Okay. So for
8 the -- for these purposes, the best line for
9 comparison against the two (2) shadow portfolios is
10 line 3, is -- if I'm understanding you correctly.

11 MR. DAVID MAKARCHUK: Correct. And so
12 it's column -- the second column of numbers, which, if
13 I may, the -- the title should be passive return minus
14 shadow portfolio rather than actual, just for clarity.

15 To the extent that one wants to compare
16 the relative performance of the shadow portfolios to
17 the policy decisions of what was actually chosen, it's
18 that middle column that one should draw conclusions
19 from.

20 MR. STEVEN SCARFONE: Okay. Very
21 good. So let's begin with line 1, shadow portfolio P1
22 Basic.

23 Just generally, sir, what investment
24 classes or securities were contained in that shadow
25 portfolio?

1 MR. DAVID MAKARCHUK: So the specifics
2 are laid out on page 2. If we go down one (1) page in
3 this piece, here. So we see that the asset allocation
4 weights, the first numeric column there, these are the
5 weights of the shadow portfolio and Basic. It is
6 theoretically -- or plausibly the portfolio that MPI
7 would have chosen, had they chosen to hedge real
8 interest rate risk as supposed to nominal interest
9 rate risk, and chosen to not have any growth assets or
10 leverage in the portfolio.

11 MR. STEVEN SCARFONE: And when you say
12 "hedging against real interest rate risk," that means,
13 if I understood the evidence from last year, a -- a
14 better protection against rising inflation, the
15 possibility of inflation going above a certain
16 percentage.

17 Is that fair?

18 MR. DAVID MAKARCHUK: It's a portfolio
19 that will move more so with anticipated changes in
20 inflation, and over the very long term, actual rates
21 of inflation. And so that's where line 1 in this
22 piece, the Real Return Bonds, they provide some of
23 that hedge. That's the substantive difference between
24 the shadow portfolio and the actual Basic portfolio.

25 The 24 percent, which we see on line 1,

1 essentially just moves to the long-term provincials
2 line, which is line 3.

3 MR. STEVEN SCARFONE: Yes. So as
4 we've just heard, the Basic claims portfolio has 100
5 percent fixed income, comprised entirely of bonds,
6 MUSH, provincial, and corporate, correct?

7 MR. DAVID MAKARCHUK: Correct.

8 MR. STEVEN SCARFONE: Okay. And so in
9 your view, is there much difference then between
10 Shadow Portfolio 1 and MPI's actual Basic claims
11 portfolio without the inclusion of Real Return Bonds?

12 MR. DAVID MAKARCHUK: So they're very
13 similar. Seventy-six percent of the portfolios are
14 exactly the same. The only difference really is the
15 24 percent moves down to line 3.

16 There's a 1 percent difference.
17 Twenty-seven (27), I think, turns into twenty-six (26)
18 or twenty-eight (28). But three-quarters (3/4) of
19 this shadow portfolio are exactly the same as the
20 actual Basic portfolio.

21 MR. STEVEN SCARFONE: Okay. And if --
22 Kristen, go back up and look at the performance of the
23 two (2). So how did they compare, sir?

24 MR. DAVID MAKARCHUK: Sure. So over
25 the period March to August, we see the -- the passive

1 portfolio return was ten point one seven (10.17). The
2 Basic portfolio was nine point three four (9.34).
3 Both very good. The actual Basic portfolio
4 outperforming slightly.

5 If -- Kristen, if you don't mind going
6 back to the Slide 2, you can see, you know, where the
7 source of return is. It's really just the difference
8 between lines 1 and 3 as we scroll over to the second
9 to the right column which is March to August.

10 Long-term provincials for this period performed
11 14.15 percent. We -- overturned bonds performed
12 10.3 percent. Everything else is in both portfolios.

13 So over this period, provincials
14 have -- long provincials have outperformed Real Return
15 Bonds.

16 MR. STEVEN SCARFONE: And going back
17 again to 1, so that is Shadow Portfolio 1 for Basic.
18 Shadow portfolio 2 or P-2 is what you've described as
19 "unconstrained." Before we get into the performance
20 of that portfolio, can you explain what
21 "unconstrained" means?

22 MR. DAVID MAKARCHUK: Sure. So there
23 are a number of different other asset classes that
24 were explored as part of the asset liability study.
25 We provided education; we provided discussion with --

1 with MPI just in terms of the risk associated with the
2 asset classes, the implementation costs of different
3 asset classes, the return profiles of different asset
4 classes.

5 Had MPI embraced all of the ideas that
6 we had otherwise explored -- and if you don't mind
7 going to Slide 3, I believe, in this set, it's going
8 to have the pieces I need here. Yeah. Thank you.

9 The asset classes listed here are the
10 compilation of those ideas. There's a number of ideas
11 that were explored but not chosen for Basic, including
12 private debt. I think there's a 15 percent
13 allocation.

14 3X Real Return Bonds essentially is
15 using leverage essentially to borrow short term to
16 receive a greater amount of Real Return Bond return,
17 to include Canadian equities, to include private
18 equities, to include real estate, and include
19 infrastructure.

20 So these were all ideas that were
21 explored and the PUB and -- or the other Intervenors,
22 you know, indicated a number of good arguments as to
23 why on their own they're all good investments.

24 Had MPI embraced a portfolio decision
25 for Basic that had more aggressive growth objectives

1 that looked to hedge real interest rate risk that were
2 okay using leverage, this is plausibly where MPI would
3 have landed, such we've called it an unconstrained
4 portfolio.

5 MR. STEVEN SCARFONE: So a couple of
6 questions on this portfolio. One: Just to be clear,
7 the growth asset classes, the equity, and the real
8 estate -- the infrastructure were not contained or are
9 not contained in MPIC's actual Basic claims portfolio.

10 MR. DAVID MAKARCHUK: Correct. It
11 chose not to include those.

12 MR. STEVEN SCARFONE: And secondly --
13 so having those investment classes in the Basic claims
14 portfolio would be contrary to the Corporation's
15 investment objectives for that portfolio?

16 MR. DAVID MAKARCHUK: Correct. We
17 explored with them their investment objectives, what
18 they wanted to achieve for Basic. The risks
19 associated with these other asset classes were not
20 risks that they identified as ones they wanted to
21 take.

22 MR. STEVEN SCARFONE: Okay. And
23 secondly: How does this portfolio protect against
24 the -- or hedge against real interest rate risk
25 without containing Real Return Bonds?

1 MR. DAVID MAKARCHUK: Right. So this
2 one hedges that risk in a slightly different way. So
3 line 5 is called 3X Real Return Bonds. That
4 essentially is a levered Real Return Bond portfolio.

5 In simple terms, an investor borrows or
6 pays a short-term rate and receives a Real Return Bond
7 rate in return. It's called 3X because there's
8 leverage so that one gets for every dollar that you
9 commit in capital, you borrow two (2) more dollars,
10 and you receive \$3 of Real Return Bond return.

11 MR. STEVEN SCARFONE: Right. Okay.

12 MR. DAVID MAKARCHUK: That's about as
13 simple as I can explain it.

14 MR. STEVEN SCARFONE: And -- no, I
15 understand the concept of leveraging because you can
16 borrow money to purchase securities. But as I
17 understand it, the risks associated with leveraging
18 are greater than the losses that you might incur
19 otherwise. Is that fair if the market is to turn
20 unfavourably?

21 MR. DAVID MAKARCHUK: Yes. The --
22 there's definitely risk associated with leverage if
23 the market was to go unfavourably. One can still
24 suffer losses without leverage as well. If one uses
25 leverage, the returns will -- may well be higher. The

1 losses may well be higher as well.

2 MR. STEVEN SCARFONE: Yeah. So I
3 guess my question to you is the risk with leveraging.
4 More risk than there is without borrowing money to
5 invest.

6 MR. DAVID MAKARCHUK: Yes. As an
7 isolated asset class, your choice -- your choices are
8 direct investment in an asset class versus leverage
9 within the asset class.

10 The dispersion of returns in the
11 leverage solution is almost certainly going to be
12 greater than the dispersion of the returns in the
13 non-leverage situation.

14 MR. STEVEN SCARFONE: And are you able
15 to recall -- and if you're not, perhaps Mr. Bunston
16 can -- if leveraging was a concept that was consistent
17 with the investment objectives of MPIC as it concerned
18 the Basic claims portfolio?

19 MR. DAVID MAKARCHUK: The discussion
20 was relatively brief. I think we illustrated how it
21 worked. There was not a lot of appetite to continue
22 with the leverage discussion.

23 MR. STEVEN SCARFONE: Okay. So with
24 those comments, if we go back to Slide 1, please, and
25 look to the performance of shadow portfolio P-2, the

1 Basic unconstrained. And, again, we see there that
2 the passive return at line 3 has it slightly
3 outperforming the shadow portfolio over the first
4 six (6) months. Is that fair?

5 MR. DAVID MAKARCHUK: Right. It's
6 somewhat of a unique period. There's a modest amount
7 of leverage in the Basic portfolio. The asset classes
8 that are illustrated -- if you don't mind going back
9 to slide 3 in this one -- the additional asset classes
10 that otherwise are added in, the public agrees in the
11 alternatives.

12 It's somewhat rare that they
13 underperform fixed income, but this has been a very
14 unique six (6) month period. The leverage -- the
15 growth assets that are otherwise included in the
16 leverage portfolios had only modest illustrated
17 returns. Thus, the performance isn't really any
18 better than the constrained shadow portfolio.

19 MR. STEVEN SCARFONE: But again -- and
20 regardless of which of the portfolios perform better,
21 it's still too early or premature to make a fair
22 assessment.

23 MR. DAVID MAKARCHUK: Very much so.
24 That's our -- that's our perspective. This will
25 illustrate some historical observations, but one

1 should not draw any conclusions from any of these at
2 this point.

3 MR. STEVEN SCARFONE: Okay. And if we
4 can go back again to one (1), please. Just before we
5 move on to the employee future benefits shadow
6 portfolios, Mr. Makarchuk, in the unconstrained shadow
7 portfolio at line 2, I understand there were some
8 growth assets in there that your firm thought might be
9 better removed to make an even better comparison for
10 what reason?

11 MR. DAVID MAKARCHUK: If you don't
12 mind going back to Slide 3, it's a good question. So
13 there were some simplified assumptions made to
14 illustrate line 4 private debt, line 7 private
15 equity, lines 8 and 9 real estate infrastructure.

16 To the extent that the different
17 parties find this illustration useful going forward,
18 we would otherwise encourage a set of underlying
19 assumptions that is more aligned with the practical
20 realities that implementation might have included.

21 In other words, there was a simplifying
22 assumption -- I'm just going to use private equity in
23 this example -- to model private equity. As you'll
24 see on line 14, it was assumed that the S&P TSX total
25 return index would assumed -- that's essentially

1 Canadian equities.

2 While over the long term, that might be
3 indicative of equity performance. To the extent that
4 we're trying to illustrate, well, what if MPI had
5 chosen this portfolio, practically speaking had
6 private equity been chosen and implemented March 1st,
7 2019, it would have taken several quarters, if not
8 several years, to put that money to work.

9 And when one invests in private equity,
10 there's a expectation -- we call it the
11 "J-curve effect" -- where when you put money into
12 private equity, oftentimes you need to be very patient
13 until the returns come. And it's called a J curve
14 because sometimes you get some losses before you get
15 gains several years down the road.

16 So especially in this very short term,
17 we're probably overstating the returns for private
18 equity, especially for private debt, to some extent
19 real estate and infrastructure. But there were the
20 assumptions that were chosen for the illustration,
21 again, because I'm trying to caution all parties not
22 to draw conclusions here.

23 I don't think it -- it changes the --
24 the story very much, but had -- if we want to be more
25 fair in terms of what might the unconstrained return

1 have been had they implemented this for March 1st, the
2 Shadow Portfolio 2 Basic -- this 9.14 percent
3 return -- that's probably overstated.

4 MR. STEVEN SCARFONE: And so is it
5 overstated by the amount in the far right column
6 where -- that you receive for private equity? Would
7 you remove that entire growth of 4 percent?

8 MR. DAVID MAKARCHUK: Yeah.
9 Realistically had you committed to private equity
10 March or April 1st, you probably have, at best, a net
11 zero return to the extent you've got any money at
12 work.

13 Private debt -- you very much doubt you
14 have 7 percent to this point. You probably are flat.
15 Your money's still probably hanging around in other
16 portfolios. There's -- this is a difficult portfolio
17 to have a short-term comparison on.

18 MR. STEVEN SCARFONE: Okay. So going
19 back to one (1) -- sorry to have you keep flipping
20 back and forth, Kristen -- but -- so with those
21 comments about some of the -- or what I'll call the
22 lag effect of some of the investment classes,
23 particularly the private equity, what is, in your
24 view, a more accurate or fair return on shadow
25 portfolio P-2 Basic unconstrained?

1 MR. DAVID MAKARCHUK: It'd be a little
2 bit less than -- than nine point one (9.1). It's
3 also -- well, it's all theoretical.

4 And if you go back to Slide 3 again,
5 Kristen -- sorry to make you work today -- as I said,
6 getting the money to work immediately, it would have
7 taken some time. So the money probably still would
8 have been sitting in something else, potentially still
9 in long bonds, for example.

10 So unless one was motivated to take the
11 time to actually stage what a theoretical limitation
12 might have looked like, that's possible. It just
13 hasn't been -- it's not what's been done for this
14 particular exhibit.

15 MR. STEVEN SCARFONE: Okay.

16 MR. DAVID MAKARCHUK: But it's hard to
17 see that the return would be any larger than nine
18 point one (9.1). It almost certainly would be lower.

19 MR. STEVEN SCARFONE: Okay. Fair
20 enough. All right. And going back to 1, so the other
21 two (2) portfolios that the Mercer firm designed or --
22 concerning the employee future benefits, the
23 segregated portfolio under the asset liability
24 management study for the pension and shadow
25 portfolio -- P-3 EFB on line 5 -- can you describe

1 what's contained in that portfolio, sir?

2 MR. DAVID MAKARCHUK: Sure. So,
3 Kristen, if we can go to Slide 4, please? So this is
4 essentially that portfolio. Again, the left-hand
5 column -- oh, maybe not. Which one is this one? Oh,
6 slide 4 is the benchmark portfolio for -- that we've
7 just been talking about for Basic. So it's actually
8 slide 5 that I'm looking for. Thank you.

9 So this is the constrained EFB
10 portfolio, if I may. So these are the asset classes
11 that are otherwise included in the EFB portfolio plus
12 an allocation of 10 percent to Real Return Bonds.

13 So the only difference between this
14 portfolio and the actual EFB portfolio, I believe
15 we'll see -- so line 1 in this page has a 10 percent
16 allocation to Real Return Bonds.

17 Kristen, if we can go to slide 7. I
18 think we'll see that that allocation is zero. Yeah.

19 So there's an allocation of zero in
20 Real Return Bonds, and that 10 percent has moved to
21 line 2, which is long-term corporates. So there's
22 really -- so 90 percent of the actual EFB portfolio is
23 exactly the same as the constrained EFB portfolio, the
24 only difference being is that 10 percent comes out of
25 the corporates and 10 percent goes into the Real

1 Return Bonds.

2 MR. STEVEN SCARFONE: So this
3 portfolio is even more closely aligned to the -- to
4 MPIC's actual employee future benefits portfolio than
5 the -- the Basic.

6 MR. DAVID MAKARCHUK: Correct. It's
7 even tighter.

8 MR. STEVEN SCARFONE: Even tighter.
9 So the Real Return Bonds that are included in the
10 shadow portfolio are the investment class, if I recall
11 correctly, that Mr. Viola was recommending be
12 purchased for this portfolio, correct?

13 MR. DAVID MAKARCHUK: Correct.

14 MR. STEVEN SCARFONE: And going back
15 to one (1), how did this shadow portfolio perform
16 against MPI's passive?

17 MR. DAVID MAKARCHUK: The performance
18 is relatively close, as one might expect given that 90
19 percent of the assets are the same. Line 7 to this
20 period, seven point seven seven (7.77) is the return.
21 Line 5 is the constrained EFB portfolio, seven point
22 five four (7.54).

23 So there's a difference of twenty-three
24 (23) basis points. You'll see in the middle of -- and
25 on line 5. Again, that's because the long provincials

1 have performed slightly better than Real Return Bonds
2 for this period.

3 MR. STEVEN SCARFONE: Okay, and then
4 lastly, at line number 6, the shadow portfolio PF-4,
5 employee future benefits unconstrained. We see there
6 the kind of returns that my guy never gets me, 15
7 percent. Can you explain what's in that portfolio?

8 MR. DAVID MAKARCHUK: Sure. So if we
9 can go to line -- or, slide 6, please. So this is the
10 -- had the Corporation had an unconstrained
11 perspective on the EFB portfolio and fully embraced
12 leverage to fully hedge interest rate risk within this
13 portfolio.

14 So we see here allocations to -- ignore
15 the bold public equities on line 4. That should
16 actually shift down to line 6. But line 4 is 3X Real
17 Return Bonds. Line 5 is 3X long-term provincials.

18 So we see rather healthy allocations --
19 eight (8) plus eighteen (18), 27 percent -- to lever
20 pieces. You see in the second-to-right column that
21 the returns on these levered products were very, very
22 good for this period, 31 percent and 44 percent. The
23 weighted average of all these allocations works out to
24 15 percent, fifteen point one five (15.15), for this
25 period.

1 MR. STEVEN SCARFONE: And -- and the
2 investment objectives for the employee future benefits
3 portfolio under Mercer's ALM study and its
4 implementation -- do you recall, sir, if that was
5 different than the investment objectives for the Basic
6 claims portfolio?

7 MR. DAVID MAKARCHUK: Yes, they were.

8 MR. STEVEN SCARFONE: And how were
9 they different?

10 MR. DAVID MAKARCHUK: So the
11 objectives for the Basic portfolio, first and
12 foremost, were miti -- to mitigate nominal interest
13 rate risk and was limited desire for credit risk and
14 no desire for equity risk.

15 For EFB, the investment objectives were
16 for more of a longer-term return; diversify to include
17 growth assets, including equities and alternatives; a
18 much smaller allocation of fixed income. Given that
19 their yields were relatively low, this was more of a -
20 - very much more a return-seeking portfolio. Basic
21 portfolio was very much more a risk-mitigating
22 portfolio.

23 MR. STEVEN SCARFONE: And what about
24 the concept of leveraging for the employee future
25 benefits portfolio?

1 MR. DAVID MAKARCHUK: So the -- the
2 slide we're looking at right now at six (6) includes
3 leverage.

4 MR. STEVEN SCARFONE: No, I meant as
5 it concerns MPIC's investment objectives for the
6 employee future benefits portfolio.

7 MR. DAVID MAKARCHUK: Sure. So the
8 chosen portfolio, slide 7, does not include leverage.
9 There was a similar discussion on leverage. It's
10 probably the same discussion. There was limited if
11 not no appetite for leverage in this portfolio as
12 well.

13 MR. STEVEN SCARFONE: And does the
14 return on the shadow portfolio, the one that we saw
15 was unconstrained -- did the returns on that portfolio
16 -- are they accounted for largely as a result of the
17 leveraging?

18 MR. DAVID MAKARCHUK: Absolutely. So
19 again, if we go back, if you don't mind, Kristen, to
20 slide 6. The substantive difference is the inclusion
21 of the leverage here. Had we not had the leverage
22 there and we reallocated the -- the amounts to the
23 other asset classes, we would have come in closer to
24 the 9 or the 7 or 8 percent that this portfolio
25 otherwise had.

1 It's -- the difference very much is the
2 leverage, the plus thirty-one (31) and the plus forty-
3 four (44).

4 MR. STEVEN SCARFONE: Okay.

5 MR. DAVID MAKARCHUK: Over this time
6 period.

7 MR. STEVEN SCARFONE: And -- and so
8 back to one (1) on the performances slide. So in
9 fact, we see there that the performance of the shadow
10 portfolio, the unconstrained one that's leveraged,
11 basically doubled the performance of MPI's actual
12 passive portfolio, correct?

13 MR. DAVID MAKARCHUK: Yeah.

14 MR. STEVEN SCARFONE: Then just a
15 couple further questions. I don't know if you can
16 comment on this, but firstly, on the inve -- the
17 investment objectives of MPIC for its Basic claims
18 portfolio, and that was primarily we've heard to
19 reduce losses as a result of interest rate risk. Do
20 either of the shadow portfolios provide that same
21 protection to MPIC?

22 MR. DAVID MAKARCHUK: So the chosen
23 portfolios that MPI -- the portfolios that MPI chose
24 hedged against nominal interest rate risk. The shadow
25 portfolios hedge against real or inflation-driven

1 risk. Portfolios 2 and 6 fully hedge inflation risk.
2 Portfolios 1 and 5 modestly hedge against inflation
3 risk. There are some implementation constraints
4 placed on both of those.

5 MR. STEVEN SCARFONE: Okay, so let me
6 put it to you another way. If the Corporation had
7 either of those shadow portfolios, are they more or
8 less at risk for interest rate risk forecasting?

9 MR. DAVID MAKARCHUK: It depends how
10 one defines interest rate risk forecasting. The
11 shadow portfolios would have been more likely to have
12 deviations in returns because nominal interest rates
13 have changed. The shadow portfolios would have been
14 tighter in terms of performance had real interest
15 rates changed.

16 They're both very similar, though. The
17 correlation takes into -- you know, there's two (2)
18 different asset classes here. There's long bonds --
19 provincial long bonds and Real Return Bonds. Our
20 assumed correlation for those two (2) asset classes is
21 relatively high, at 0.7 percent. That's high from a
22 mathematical and investment perspective.

23 It's not like they're fundamentally
24 different. They're going to be similar, as we've seen
25 in this six (6) month period where both long bonds and

1 Real Return Bonds have done relatively well. They're
2 just not going to be the same.

3 MR. STEVEN SCARFONE: Okay. Then
4 I'll -- I'll ask you this question, and it's a
5 question, really, that concerns capital. Yesterday,
6 we heard as a result of Mercer's ALM study and its
7 implementation, the Corporation found that its
8 requirement for capital was reduced, I think Mr.
9 Johnston said to the extend of almost a hundred
10 million dollars.

11 Would that same benefit arise if the
12 Corporation had adopted one of the shadow portfolios
13 for either Basic, employee future benefits, or both?

14 MR. DAVID MAKARCHUK: I'm not an
15 expert on MCT requirements. My understanding is that
16 had the Corporation chosen Portfolios P-1 or P-3 --
17 they're just variations of fixed income -- I would
18 assume the MCT requirement would be the same. Had it
19 chosen P-2 or P-4, I'm almost certain the MCT
20 requirement would be higher. Not my area of
21 expertise, though.

22 MR. STEVEN SCARFONE: Very good. And
23 so just to summarize, then, sir, are you -- I don't
24 know if happy's the right word. Are you satisfied
25 with the returns that the -- the actual portfolios are

1 providing for MPIC to date?

2 MR. DAVID MAKARCHUK: Am I happy?

3 MR. STEVEN SCARFONE: Well, I -- I
4 changed that to satisfied.

5 MR. DAVID MAKARCHUK: I don't know how
6 to answer that question. Ask it again, please.

7 MR. STEVEN SCARFONE: I've just -- so
8 you've designed -- or, not designed -- you had a hand
9 in the implementation of the new investment strategy
10 under Mercer's asset liability management study --

11 MR. DAVID MAKARCHUK: Yeah.

12 MR. STEVEN SCARFONE: -- and I'm just
13 -- to date, we see some of the returns that have come
14 back on at least two (2) of those portfolios. Are
15 those in line with your expectations?

16 MR. DAVID MAKARCHUK: Sure. So we
17 facilitated discussion with MPI management. The
18 committee agreed on some investment objectives and
19 things like that. They articulated and stated a
20 strategy portfolio that's aligned with lines 3 and
21 line 7 of this illustration.

22 I would have been most satisfied if
23 that was the actual return, lines 4 and lines 8. It
24 has taken some time for implementation. It's been a
25 phased implementation. Hindsight is always 20/20, and

1 in this case, the hindsight is indicating that that
2 phased implementation has resulted in a redur -- a
3 reduction in the return.

4 Had MPI been able to wave a magic wand
5 on March 1st and magically transitioned the portfolio
6 to exactly what they wanted, we otherwise would have
7 expected a return of ten point one seven (10.17) for
8 the -- the top line, plus or minus active management.
9 Similar phenomenon for line 7 and 8.

10 So it's somewhat disappointing that the
11 actual returns are less than the passive returns. So
12 to answer your question, am I satisfied? The 3
13 percent gaps are somewhat significant and unfortunate.

14 MR. STEVEN SCARFONE: Okay. So I --
15 you would have preferred to see the implementation of
16 the new strategy done with greater dispatch so that it
17 was -- if it had been done earlier, the Corporation
18 would have realized greater returns.

19 MR. DAVID MAKARCHUK: Given that --
20 yeah, given the interest rate, the market progression
21 of these last six (6) months, hindsight says that it
22 certainly would have been better to implement quickly.
23 This was a very unique six (6) month period. We've
24 never seen bond markets move to the space they went to
25 in August of 2019. Never in our lifetimes.

1 And it's equally plausible that
2 interest rates could have risen in this six (6) months
3 period, in which case a phased or a slow
4 implementation would have been great news for the
5 Corporation. It's unfortunate in this period that the
6 delayed phasing-in has resulted in, you know,
7 relatively large negative numbers in the fourth
8 column.

9 MR. STEVEN SCARFONE: And that's
10 because the delay occurred during the fall of interest
11 rates.

12 MR. DAVID MAKARCHUK: During a falling
13 interest rate environment, right.

14 MR. STEVEN SCARFONE: Well, you'd be
15 happy to know Mr. Bunston said that the -- the
16 strategy now is -- is fully implemented. And so those
17 are all my questions for Mr. Makarchuk.

18 THE CHAIRPERSON: Thank you, Mr.
19 Scarfone.

20 Ms. McCandless...?

21 MS. KATHLEEN MCCANDLESS: Mr.
22 Watchman's going to be proceeding with the cross-
23 examination. If we could have the panel's in --
24 indulgence and just break for two (2) minutes.

25 THE CHAIRPERSON: Certainly.

1 MS. KATHLEEN MCCANDLESS: Thank you.

2

3 --- Upon recessing at 10:39 a.m.

4 --- Upon resuming at 10:41 a.m.

5

6 THE CHAIRPERSON: Thank you. Please
7 proceed.

8 MR. STEVEN SCARFONE: Madam Chair,
9 just before cross-examination begins, My Learned
10 Friend reminded me that Mr. Makarchuk should probably
11 have been qualified, because he did give some opinion
12 evidence. And that's my oversight, having not pre-
13 qualified him following the pre-hearing conference.
14 We weren't expecting to have Mr. Makarchuk attend here
15 this year.

16 So my -- my recommendation is that I
17 can put some questions to him now on his
18 qualifications. I don't know if there's any real
19 objection to his qualifications from either Mr.
20 Williams or Board counsel, but we're certainly
21 prepared to -- to do that here right now.

22 DR. BYRON WILLIAMS: Just on behalf of
23 -- thank you, and sorry for jumping the gun. On
24 behalf of our client, we consented to his
25 qualifications last year. We see no reason to revoke

1 that consent. We believe the witness is qualified to
2 offer the opinions he has tendered.

3 THE CHAIRPERSON: Thank you, Mr.
4 Williams. I think we will proceed then. Thank you.

5

6 CROSS-EXAMINATION BY MR. ROBERT WATCHMAN:

7 MR. ROBERT WATCHMAN: Thank you, Madam
8 Chair. Good morning, Mr. Makarchuk.

9 MR. DAVID MAKARCHUK: Good morning.

10 MR. ROBERT WATCHMAN: My questions are
11 going to be directed primarily to the design of the
12 portfolios as opposed to the performance, if that's
13 okay.

14 MR. DAVID MAKARCHUK: Sure.

15 MR. ROBERT WATCHMAN: And before I --
16 I begin, I just wanted to ask some general questions
17 about the portfolios.

18 I think it's clear from the evidence
19 that one (1) of the primary object -- objectives of
20 the asset liability management study was to de-risk,
21 in particular, the Basic portfolio.

22 Is that correct?

23 MR. DAVID MAKARCHUK: That was one (1)
24 of the articulated objectives, yeah.

25 MR. ROBERT WATCHMAN: And in that

1 regard, you -- you specifically referred a couple of
2 times to interest rate risk, correct?

3 MR. DAVID MAKARCHUK: Yes.

4 MR. ROBERT WATCHMAN: And does the
5 risk on the investment assets that they're exposed to
6 includes also inflationary risk?

7 MR. DAVID MAKARCHUK: Yes, there's --
8 they're intertwined.

9 MR. ROBERT WATCHMAN: And so you used
10 the -- the terms 'real liability benchmark' and
11 'nominal liability benchmark'. And for the purposes
12 of the report that was prepared, is -- is there some
13 brief explanation as to the distinction between the
14 two (2)?

15 MR. DAVID MAKARCHUK: Sure. So a
16 liability benchmark is a proxy that we use -- and is
17 often used by institutional investors to represent the
18 obligations of an entity in relation to published bond
19 market indexes.

20 The reason we use liability benchmarks
21 is to make modeling more efficient, and then also to
22 illustrate the variation in the amount of an
23 obligation because of shifts in the yield curve, or
24 the value of that underlying benchmark.

25 The Corporation has obligations that

1 essentially are long-term in nature. So specifically,
2 the ones used -- I'll focus on Basic for now -- are
3 long-term in nature and tied to the rate of increase
4 and Manitoba annual inflation.

5 We discussed that with the Corporation.
6 They indicated that their long-term assumption for
7 annual inflation is 2 percent. And so one (1)
8 modeling option was to say, I'll try and use a single
9 obligation, say a single obligations is a thousand
10 dollars a year.

11 Well, you can assume that that
12 obligation is a thousand dollars a year for whatever
13 the -- the expected period of payment is, and it was
14 inflated at 2 percent per year in terms of the
15 obligations that were there.

16 You aggregate all the portfolios
17 together. You have -- or all the obligations
18 together. That gives you a set of obligations.

19 If one assumes that those -- all of the
20 obligations increase at 2 percent per year, then the
21 value of those future obligations will otherwise
22 change on a present value basis as what we call
23 nominal interest rates change. Again, those are just
24 the -- the basic interest rates that otherwise are
25 included in provincial bonds, and corporate bonds, the

1 MUSH bonds.

2 That's the chosen methodology that MPI
3 adopted for the study, because as we discussed
4 variations in inflation, the risks associated with
5 inflation being higher or lower than 2 percent, they
6 were more -- they were concerned or motivated to hedge
7 the risk that interest rates move as opposed to
8 whether the inflation rate is different than 2
9 percent. Thus, a nominal liability benchmark was
10 chosen.

11 The alternative would have been to come
12 back to our single policy illustration, to say that
13 the Corporation has an obligation of a thousand
14 dollars per year, and that it will vary depending on
15 what future inflation will be, sometimes higher than
16 two (2), sometimes lower than two (2).

17 The financial instruments that have
18 real return exposure -- Real Return Bonds, primarily -
19 - are assets that move as inflation moves. They move
20 for a few other reasons as well. But a real liability
21 benchmark is one that consists of Real Return Bonds,
22 and generally, which show the variations in the
23 present value of the obligation as the price of Real
24 Return Bonds change, as opposed to the nominal
25 liability benchmark, where the amount of the

1 obligation -- the present value and obligation changes
2 as nominal interest rate change.

3 Does that answer your question?

4 MR. ROBERT WATCHMAN: Somewhat.

5 MR. DAVID MAKARCHUK: Okay.

6 MR. ROBERT WATCHMAN: Would it be
7 overly simplistic of me to suggest that the nominal
8 liability benchmark is not taking into account
9 inflation volatility?

10 MR. DAVID MAKARCHUK: That would not
11 be overly simplistic. That would be fair.

12 MR. ROBERT WATCHMAN: And whereas the
13 real liability benchmark does take into consideration
14 inflationary -- or the volatility of inflation?

15 MR. DAVID MAKARCHUK: Correct.

16 MR. ROBERT WATCHMAN: Kristen, if we
17 could turn to INV, Appendix A. Or sorry -- I'm sorry,
18 Attachment A.

19 This is -- now Mr. Makarchuk. This is
20 from the General Rate Application. And it's -- if I
21 can refer to it as the Mercer report?

22 MR. DAVID MAKARCHUK: Sure.

23 MR. ROBERT WATCHMAN: And you were one
24 (1) of the authors of this report?

25 MR. DAVID MAKARCHUK: Correct.

1 MR. ROBERT WATCHMAN: If we could turn
2 to page 3. Now, you've already explained to us that
3 as I understand it, Mercer's understanding of MPI's
4 appetite for risk is based upon discussions with MPI.

5 Is that correct?

6 MR. DAVID MAKARCHUK: Correct.

7 MR. ROBERT WATCHMAN: So Mercer's
8 didn't conduct some independent study to say what a
9 public automobile insurer ought to accept as
10 investment risk?

11 MR. DAVID MAKARCHUK: No.

12 MR. ROBERT WATCHMAN: And just looking
13 down toward the bottom of that page, it refers to mini
14 -- minimally constrained approach to allocations. And
15 there is the -- you've mentioned unconstrained
16 investment, and here we have minimally constrained.

17 Could you explain to us the difference?

18 MR. DAVID MAKARCHUK: I believe,
19 Kristen, it might be the next slide. Can we just
20 test? It's either one (1) forward or one (1) back.
21 Maybe one (1) more? Yeah.

22 So this is the discussion on the
23 constraints that we otherwise looked at. There might
24 be one (1) more slide. But we -- we want to avoid
25 really small allocations to a particular asset class.

1 So that's part of what minimally constrained talks
2 about.

3 There was also constraint in terms of
4 what we otherwise perceived to be a practical amount
5 of Real Return Bond exposure that an investor the size
6 of MPI could move into in a reasonable timeline. And
7 we talk about that a little bit I think in the
8 appendix. But because the Real Return Bond market is
9 relatively illiquid.

10 I think from memory, this would be at
11 least a half a million dollar allocation, if one
12 wanted to fully hedge that point of view. Daily
13 market volume on Real Return Bonds is closer to \$20
14 million a day. It would take quite some time to
15 efficiently move into a large position on Real Return
16 Bonds without moving market pricing significantly and
17 overpaying for that coverage or exposure.

18 I think that's broadly what minimally
19 constrained meant.

20 MR. ROBERT WATCHMAN: Kristen, if we
21 could go back to page 3.

22 Again, so that -- at the bottom line
23 there:

24 "Minimally constrained approach
25 allocations satisfiers -- satisfies

1 required level of liquidity."

2 And is -- is that what you were
3 explaining, that there was -- there was constraint?

4 MR. DAVID MAKARCHUK: I think that was
5 related to the ability to phase into the RRB exposure.
6 In hindsight, I'm not sure that's the exact right
7 choice of word in terms of what we're trying to get
8 to, but that's what it says.

9 MR. ROBERT WATCHMAN: So can you tell
10 us, were certain types of investments excluded as a
11 result of concerns for liquidity?

12

13 (BRIEF PAUSE)

14

15 MR. DAVID MAKARCHUK: Liqu -- if we go
16 to the full set of investments, Kristen, the next
17 slide.

18 This was the full set of investments
19 that were discussed during the asset liability study.
20 It's a reasonably fulsome piece that an -- an
21 insurance investor this size could choose.

22 We didn't spend a lot of time on
23 liquidity, to be honest. I don't think there was a
24 lot of restrictions because of liquidity.

25 MR. ROBERT WATCHMAN: And I know at

1 the bottom of that slide, it indicates which assets
2 were already included in the target asset mix, and
3 which were added. And I take it they were added at
4 the suggestion of Mercer's.

5 Is that correct?

6 MR. DAVID MAKARCHUK: Right. At the
7 very beginning of our engagement, not knowing what
8 MPI's risk tolerance return objectives are, but
9 knowing we were nearly talking about three-ish billion
10 dollars of assets, and our knowledge of what other
11 institutional insurance investors of this size
12 generally invest in, we brought a list of general
13 asset classes to the attention of MPI, and said, Okay,
14 let's define the scope of what we're going to include.

15 We said, Here are some asset classes,
16 or is this part of our conversation or not?

17 So these are the ones that were
18 included. I don't think we have a list of ones that
19 were excluded. But as a simple example, investments
20 in Timberland, for example, is a plausible investment
21 that an institutional investor could make.

22 It was not included in the study in
23 some respects because the size is too small, the
24 implementation costs are high. We can't explore
25 everything. These are the ones that were included.

1 MR. ROBERT WATCHMAN: So -- but there
2 were asset classes that were brought to the
3 Corporation's attention by Mercers (sic) but were
4 excluded. Is that correct?

5 MR. DAVID MAKARCHUK: Yes.

6 MR. ROBERT WATCHMAN: So, again, at
7 the bottom there again, it says "approved by MPI
8 investment committee." So some of these asset -- some
9 asset classes that could have been included were
10 excluded because of -- they weren't approved by MPI
11 investment committee. Is that correct?

12 MR. DAVID MAKARCHUK: Right. There
13 would have been a phase where we say, well, here's all
14 the different asset classes. You know, another
15 attractive for some investor asset classes is hedge
16 funds or -- or of that regard.

17 And we have said, here are the relative
18 pros and cons of diversified hedge funds. Would you
19 like to include it in the study? And there was a yes
20 or no before we moved on to modeling, and that's
21 essentially the slide that illustrates the asset
22 classes that were included in the illustrations.

23 MR. ROBERT WATCHMAN: So when we talk
24 about unconstrained, really we're speaking about
25 unconstrained within what the MPI investment committee

1 proved.

2 MR. DAVID MAKARCHUK: Unconstrained
3 within this set. Correct.

4 MR. ROBERT WATCHMAN: And just under
5 the middle column there where you have "inflation
6 sensitive" -- and, of course, this was all about the
7 Real Return Bonds, and we'll get to it -- the leverage
8 Real Return Bonds. But you also indicate that
9 infrastructure and real estate are inflation
10 sensitive. So they act as a protection against
11 inflation volatility? Is that correct?

12 MR. DAVID MAKARCHUK: Some are more
13 inflation sensitive than others. Some are more
14 sensitive to Canadian inflation than others. Some
15 have very limited linkage to Canadian inflation.

16 But as asset classes go, infrastructure
17 in real estate generally has a higher correlation with
18 inflation sensitivity Real Return Bonds than the asset
19 classes on the outside of this page.

20 MR. ROBERT WATCHMAN: Thank you. And
21 we'll come to it next, but ultimately, the portfolio
22 that was selected by the Corporation for Basic claims
23 did not include any inflation sensitive assets. Is
24 that correct?

25 MR. DAVID MAKARCHUK: Correct.

1 MR. ROBERT WATCHMAN: Kristen, if we
2 could turn to Slide 8. And so this table represents
3 various portfolios that were looked at? Is that
4 correct?

5 MR. DAVID MAKARCHUK: Yeah.

6 MR. ROBERT WATCHMAN: And this is
7 based upon real liability benchmark?

8 MR. DAVID MAKARCHUK: The metrics at
9 the bottom are correct. Yeah.

10 MR. ROBERT WATCHMAN: And so the first
11 column of numbers there -- the 2017 current -- that
12 would have been the asset mix prior to implementation
13 of the ALM study. Is that correct?

14 MR. DAVID MAKARCHUK: Yes. The
15 pro rata share of the non-segregated asset allocation
16 of the Corporation we had at that time.

17 MR. ROBERT WATCHMAN: And the third
18 column labeled "B: Basic 3," that is the asset
19 allocation that was ultimately selected by MPI? Is
20 that correct?

21 MR. DAVID MAKARCHUK: Yeah.

22 MR. ROBERT WATCHMAN: So now we'll
23 look at the -- the other two (2). Before I get there,
24 the bottom box in that table referring to "Risk-Return
25 Metrics," I'm wondering if we could just go through

1 those very quickly and if you could explain what each
2 of those metrics represents?

3 MR. DAVID MAKARCHUK: Sure. So the
4 first line, as implied by its title, is our
5 expectations of the ten (10) year return of the asset
6 mixes that are above the line.

7 We have a core set of assumptions -- I
8 believe they're in the appendix of this document --
9 that were in place. These assumptions in this
10 document, I believe, are still from 2017 just for
11 continuity.

12 And to not result in any confusion, we
13 have asset class assumptions for each different line.
14 We have a volatile assumptions for each different
15 line. We have correlation assumptions for each
16 different asset class.

17 We put those through our modeling tool,
18 and we have different assumptions over different
19 periods. But this is the weighted average median
20 expectation that would otherwise be associated with
21 portfolio -- each of the -- each of the portfolio
22 columns.

23 So we would otherwise expect there's a
24 50 percent chance that the return will be higher than
25 that line, and there's a 50 percent chance that the

1 number would be lower than that line. That's our
2 median expectation.

3 The -- the surplus volatility -- is
4 that sufficient on that line?

5 MR. ROBERT WATCHMAN: Yeah. Yes.

6 MR. DAVID MAKARCHUK: Okay. The
7 surplus volatility line is our expectation of the
8 variation and the returns of the portfolio relative to
9 the chosen liability benchmark. On this page, it's
10 the real liability benchmark.

11 So it's essentially a portfolio of Real
12 Return Bonds -- not hundred percent Real Return Bonds
13 but a lot of Real Return Bonds that looks very similar
14 to Column A.

15 We see the surplus volatility line --
16 it is substantively zero -- indicating that had the
17 Corporation chose Portfolio A, we would think that the
18 variation in the performance of portfolio A versus the
19 liability benchmark would be negligible -- the zero
20 point three (0.3).

21 In the current, it was three point
22 eight (3.8); Basic 3B is four point five (4.5);
23 'C' would have been lower -- it would have been three
24 point two (3.2) -- primarily because Portfolio C
25 includes an allocation to Real Return Bonds which have

1 a higher correlation to the real liability benchmark.
2 Portfolio B, Basic 3 does not have Real Return Bonds,
3 thus the volatility would be higher.

4 MR. ROBERT WATCHMAN: Sorry. If I can
5 just interrupt you then, the surplus volatility
6 represent investment risk? Is that correct?

7 MR. DAVID MAKARCHUK: Yeah.

8 MR. ROBERT WATCHMAN: Okay. Thank
9 you.

10 MR. DAVID MAKARCHUK: Variation
11 from -- it's the investment risk of the portfolio
12 moving in -- having a return that is different from
13 the underlying obligation.

14 MR. ROBERT WATCHMAN: Okay. And then
15 the information ratio, if you could explain that?

16 MR. DAVID MAKARCHUK: Yes. So it's --
17 essentially is -- as -- as indicated in the
18 parenthesis, it is the expected excess return. We to
19 - the excess return is the return of the portfolio
20 less the liability benchmark divided by the surplus
21 volatility.

22 So you see that the performance
23 there -- the higher return to risk is highest for the
24 current portfolio; lowest for, in this case, Basic 3;
25 a little higher for Basic 5.

1 MR. ROBERT WATCHMAN: So, again at the
2 risk of being overly simplistic, the expected return
3 we want to see as high as possible. The surplus
4 volatility, we want to see as low as possible. And
5 the information ratio, we would like to see as high as
6 possible. Is that fair to say?

7 MR. DAVID MAKARCHUK: Yes. So
8 there -- to the extent each of those metrics, those
9 are the directions that an investor would aspire to
10 be.

11 MR. ROBERT WATCHMAN: All right.
12 Thank you. And just before we leave it there that --
13 at the bottom, it indicates that the expected ten (10)
14 year return based on the real liability benchmark was
15 2.4 percent. Is that right?

16 MR. DAVID MAKARCHUK: Yeah.

17 MR. ROBERT WATCHMAN: Now -- so
18 looking at Column A "lowest risk" -- and you indicated
19 there that the lowest risk was represented by a large
20 investment in Real Return Bonds: 64 percent.

21 MR. DAVID MAKARCHUK: Correct.

22 MR. ROBERT WATCHMAN: But the
23 shortcoming of that is at the end where you have
24 expected return being barely above the liability
25 benchmark expected return, correct?

1 MR. DAVID MAKARCHUK: Correct.

2 MR. ROBERT WATCHMAN: So low risk but
3 low return. Is that fair to say?

4 MR. DAVID MAKARCHUK: Yeah.

5 MR. ROBERT WATCHMAN: And Column B, as
6 we discussed, is the Basic portfolio that was selected
7 by the Corporation. Column C represents the inclusion
8 now of Real Return Bonds at 24 percent.

9 And first of all, I take it then that
10 those bonds came from mid and long-term provincial
11 bonds. Is that correct?

12 MR. DAVID MAKARCHUK: So the standard
13 of a long-term bonds -- the mid-term bond just went
14 from twenty-eight (28) to twenty-seven (27).

15 MR. ROBERT WATCHMAN: Right.

16 MR. DAVID MAKARCHUK: It's
17 substantively mid term -- or sorry -- it's
18 substantively long term.

19 MR. ROBERT WATCHMAN: Okay. And as
20 you indicated, that inclusion of 24 percent Real
21 Return Bonds resulted in a lowering of the surplus
22 volatility -- correct -- down to 3.2 percent?

23 MR. DAVID MAKARCHUK: Yes. Measured
24 against the real liability benchmark --

25 MR. ROBERT WATCHMAN: Right.

1 MR. DAVID MAKARCHUK: -- it reduced
2 the surface volatility. Measured against the nominal
3 liability benchmark, it increased the surface
4 volatility.

5 MR. ROBERT WATCHMAN: Okay. And we'll
6 come to that in a minute.

7 MR. DAVID MAKARCHUK: Yeah.

8 MR. ROBERT WATCHMAN: But the expected
9 return was the same as between the portfolio selected
10 and the inclusion of 24 percent Real Return Bonds?

11 MR. DAVID MAKARCHUK: Yeah. It
12 certainly rounded to the nearest ten (10) basis
13 points. Yeah.

14 MR. ROBERT WATCHMAN: Now, Kristen, if
15 we could turn to Information Request PUB-MPI-1-36; one
16 (1) dash thirty-six (36) rather. And you'll see
17 there, Mr. Makarchuk, that in Information Request Part
18 A, we asked how Mercer determined that the 24 percent
19 component of real return bon -- bonds as part of the
20 optima -- optimal portfolio mix for shadow Portfolio
21 1. And we also asked for constraints that existed on
22 the allocation.

23 And if we could just scroll down to the
24 response, the indi -- the response was that, first,
25 MPI's desire to have a 100 percent allocation to fix

1 the income assets within Basic portfolio.

2 So the allocation to Real Return Bonds
3 would be consistent with that desire, correct?

4 MR. DAVID MAKARCHUK: Yeah.

5 MR. ROBERT WATCHMAN: It goes -- Point
6 number 2:

7 The fact that RBRs (sic) are the best
8 standalone asset class for an inflation hedge.

9 So you're saying that's why RBRs (sic)
10 were selected but the Corporation wasn't looking to
11 protect -- or looking for an inflation hedge? Is that
12 correct?

13 MR. DAVID MAKARCHUK: Yeah. The
14 Corporation assumed a 2 percent inflation static.

15 MR. ROBERT WATCHMAN: Number 3 -- item
16 number 3: 24 percent RBRs (sic) was consistent with
17 credit risk level. Can you just explain that?

18

19 (BRIEF PAUSE)

20

21 MR. DAVID MAKARCHUK: Using a nominal
22 liability benchmark. So the nominal liability
23 benchmark has provincial bonds in it that has a little
24 bit of credit risk; the RRB allocation does not.

25 I'd say that's a fairly -- it's been a

1 while since I read this, but that's a fairly minor
2 point. The credit risks are about the same, but that
3 really doesn't drive the choice of liability
4 benchmark.

5 MR. ROBERT WATCHMAN: Okay. So I'm
6 taking a -- it's item number 4 that sort of drove the
7 determination of 24 percent?

8 MR. DAVID MAKARCHUK: Yeah. It really
9 wasn't three (3).

10 MR. ROBERT WATCHMAN: Okay. And so
11 Point number 4 refers to a couple of items, one (1)
12 being liquidity? Is that correct?

13 MR. DAVID MAKARCHUK: Yeah. Yeah. So
14 I guess in this context, it's the liquidity of the
15 asset class, not so much the liquidity of the MPI
16 portfolio. But if we agreed that's what liquidity
17 means in this context, then yes.

18 MR. ROBERT WATCHMAN: Okay. And as I
19 think you explained earlier, there was constraint
20 based upon the size of the bond market?

21 MR. DAVID MAKARCHUK: Correct.

22 MR. ROBERT WATCHMAN: So -- so the
23 feeling was that it would take just too long to try to
24 convert to Real Return Bonds?

25 MR. DAVID MAKARCHUK: Efficiently.

1 Our fixed income expert had a number of different
2 conversations with fixed income investment managers
3 just in terms of how would an implementation of
4 roughly half a billion dollars of RRBs look? What
5 would it take?

6 And his recommendation was to include
7 24 percent as a reasonable balance between hedging the
8 Real Return Bond exposure in this illustration, as
9 well as what you could prudently phase toward over a
10 reasonable period of time.

11 MR. ROBERT WATCHMAN: And in terms of
12 concerns about liquidity, Government of Canada Real
13 Return Bonds could have been used to address that
14 issue.

15 MR. DAVID MAKARCHUK: Oh, this is a
16 discussion of the liquidity of Government of Canada
17 Real Return Bonds, and the point that we're trying to
18 make here is that for an investor the size of MPI, if
19 it was motivated to place, say, half a billion dollars
20 of Real Return Bonds, Real Return Bonds are not a very
21 liquid asset class.

22 And therefore, there would either be a
23 lot of price disruption if one (1) was motivated to
24 buy that really quickly, or one (1) would have to be
25 very patient to buy up that entire half a billion

1 dollar allocation. That's what we mean by that, if
2 that helps. It's a little complicated.

3 MR. ROBERT WATCHMAN: Kristen, if we
4 could turn back to the Mercer report, slide 9, and if
5 we could just scroll down a bit so we can get the
6 bottom axis. Okay.

7 And so this is a graphic representation
8 of the table we saw in the previous slide. Is that
9 correct?

10 MR. DAVID MAKARCHUK: Yeah. I don't
11 think we've changed what we're doing here. No.

12 MR. ROBERT WATCHMAN: Okay. And so
13 again, where we want to be on this is as high on the
14 vertical scale and as far left on the horizontal scale
15 is optimal. Is that fair to say?

16 MR. DAVID MAKARCHUK: Yeah. In risk
17 return charts, northwest is the place to be.

18 MR. ROBERT WATCHMAN: And so if we
19 look at Basic 5, the blue dot there. So that's the
20 Basic portfolio with the 24 percent Real Return Bonds,
21 correct?

22 MR. DAVID MAKARCHUK: M-hm. Yeah.

23 MR. ROBERT WATCHMAN: And as compared
24 to the Basic 3, which was the -- which is the orange-
25 coloured dot, which was the portfolio selected by the

1 Corporation -- so this tells us in terms of the real
2 liability benchmark that adding Real Return Bonds
3 would give you close to the same return but with less
4 risk. Is that a fair way of describing that?

5 MR. DAVID MAKARCHUK: Yeah.

6 MR. ROBERT WATCHMAN: And now, in last
7 year's general rate application, there was a fair bit
8 of talk about efficient frontiers?

9 MR. DAVID MAKARCHUK: Correct.

10 MR. ROBERT WATCHMAN: And we don't see
11 any efficient frontiers illustrated on this graph,
12 correct?

13 MR. DAVID MAKARCHUK: Correct.

14 MR. ROBERT WATCHMAN: Okay, but in
15 termining -- in determining an optimal allocation to
16 Real Return Bonds, did Mercers (sic) conduct an
17 efficient frontier analysis?

18 MR. DAVID MAKARCHUK: Yes.

19 MR. ROBERT WATCHMAN: And do you
20 recall how closely that correlates to the 24 percent?

21 MR. DAVID MAKARCHUK: Yes. The
22 liability benchmark was agreed to be a real liability
23 benchmark. The efficient frontier here would have
24 plotted always to the northwest of all points because
25 you can't have a point on the other side of the line.

1 It would have kind of gone over -- started near lower
2 risk, kind of interpolated about over the points that
3 were here.

4 So it would have been further north and
5 further west to all these points, including Basic 5.

6 MR. ROBERT WATCHMAN: So does that
7 tell us, then, that some other -- a frontier -- an
8 efficient frontier analysis would have indicated that
9 some other allocation to Real Return Bonds would have
10 been more optimal?

11 MR. DAVID MAKARCHUK: With -- yes,
12 this -- yes. Yeah, there was constraints in this one.
13 The current -- yeah, there's constraints in this one -
14 -

15 MR. ROBERT WATCHMAN: So --

16 MR. DAVID MAKARCHUK: -- ones that had
17 more Real Return Bonds, theoretically.

18 MR. ROBERT WATCHMAN: So was the --
19 was the primary constraint was just the avail -- the
20 size of the bond market?

21 MR. DAVID MAKARCHUK: Yeah.

22 MR. ROBERT WATCHMAN: And if I could
23 just ask -- if we could just compare the -- the
24 current dot, which is the asset allocation prior to
25 implementation of the ALM study, correct?

1 MR. DAVID MAKARCHUK: Yeah.

2 MR. ROBERT WATCHMAN: As compared to
3 the Basic 3, which is the post-ALM study -- post-
4 implementation of the ALM study?

5 MR. DAVID MAKARCHUK: Yeah.

6 MR. ROBERT WATCHMAN: And if I'm
7 reading this correctly, on a real liability benchmark
8 basis, it tells us that the pre-implementation carried
9 a greater expectation of return with less risk. Is
10 that correct?

11 MR. DAVID MAKARCHUK: Relative to a
12 real liability benchmark? Pre-li -- pre-
13 implementation had a higher expected return with less
14 volatility relative to a real liability benchmark.
15 Correct.

16 MR. ROBERT WATCHMAN: Kristen, if we
17 could turn to slide 10.

18 And now this is the same analysis
19 carried out, though, with the nominal liability
20 benchmark. Is that correct?

21 MR. DAVID MAKARCHUK: Yeah.

22 MR. ROBERT WATCHMAN: And so we have
23 the same level of investment in Real Return Bonds in
24 the shadow portfolio, 24 percent?

25 MR. DAVID MAKARCHUK: Yeah.

1 MR. ROBERT WATCHMAN: And so if we
2 look at that bottom box, and now, I just -- I should
3 note that at the very bottom of the slide, it
4 indicates that the return -- the expected ten (10)
5 year return on real liability benchmark is now 2.8
6 percent.

7 MR. DAVID MAKARCHUK: Yeah.

8 MR. ROBERT WATCHMAN: And if we look
9 at the bottom box there, the risk and return matrix,
10 we see now that, as you indicated, the surplus
11 volatility under the Column B, the Basic 3, the chosen
12 portfolio, is now 1.3 percent, whereas the shadow
13 portfolio is at 2.2 percent.

14 MR. DAVID MAKARCHUK: Correct.

15 MR. ROBERT WATCHMAN: And if we turn
16 to the next slide, and so there it's -- so there it's
17 represented graphically, where we see now that Basic 3
18 is to the left along the horizontal scale relative to
19 the Basic 5, which was selected.

20 MR. DAVID MAKARCHUK: Yeah.

21 MR. ROBERT WATCHMAN: Now, if we could
22 just go back up to the -- the previous slide in the
23 numbers, noting that on a nominal liability basis, the
24 surplus volatility for the chosen Basic 3 portfolio
25 was 1.3 percent.

1 MR. DAVID MAKARCHUK: Yeah.

2 MR. ROBERT WATCHMAN: And if we go
3 back two (2) slides, on a real liability basis, it was
4 4.5 percent. So the risk has reduced dramatically
5 between those benchmarks, and is that attributable to
6 just taking out inflation volatility risk?

7 MR. DAVID MAKARCHUK: Yeah. The
8 portfolios are the same. The only difference is the
9 liability benchmark. The -- this slide here is the
10 real liability benchmark; the other slide is the
11 nominal liability benchmark.

12 MR. ROBERT WATCHMAN: So --

13 MR. DAVID MAKARCHUK: So one assumes
14 vo -- the inflation will be different than two (2);
15 the other assumes that inflation will be 2 percent.
16 And nominal was the one that was chosen.

17 MR. ROBERT WATCHMAN: Yes. And so I
18 take it that the -- so the portfolio design was based
19 upon the nominal liability benchmark. Is that
20 correct?

21 MR. DAVID MAKARCHUK: Correct.

22 MR. ROBERT WATCHMAN: And do you have
23 any sense as to what inflation was as of March 1st,
24 2019?

25 MR. DAVID MAKARCHUK: March 1st of

1 2019?

2 MR. ROBERT WATCHMAN: Yes.

3 MR. DAVID MAKARCHUK: It's been two-
4 ish most of the year. It was announced this morning
5 for Canada -- I don't know what Manitoba was --
6 Canada's one point nine (1.9). It's -- it's been
7 really close to two (2) all year, materially. Maybe
8 up to two point three (2.3), four (4), maybe. Maybe
9 it's been lower.

10 MR. ROBERT WATCHMAN: And it's been
11 below two (2) as well.

12 MR. DAVID MAKARCHUK: Yeah, it's kind
13 of hovered. It's been close to two (2).

14 MR. ROBERT WATCHMAN: And is my -- my
15 understanding is the concern, though, is about the
16 volatility in the -- in the inflation rate. Does that
17 not create investment risk?

18 MR. DAVID MAKARCHUK: Yeah, there's
19 the -- there's the long-term ap -- ap -- you know,
20 part of the inflation piece, which we try to deal with
21 in terms of an asset liability study. There's also
22 the practical nature of how MPI actually credits
23 inflation to its policyholders.

24 I -- I believe -- it's not my part of
25 advice, but my understanding is that it's -- it's

1 really only one (1) MP -- one (1) CPI measure per
2 annum that matters. It's not like every month's is
3 considered. MPI can correct me if that's not right.

4 We get updates from the press and
5 measures from Stats Canada every -- every month, but
6 it's really only one (1) point in time that that
7 calculation's updated per year.

8 MR. ROBERT WATCHMAN: Thank you.
9 Kristen, if we could turn to slide 12.

10 And now, this is the unconstrained
11 portfolio?

12 MR. DAVID MAKARCHUK: Right, with
13 Basic. Yeah.

14 MR. ROBERT WATCHMAN: Okay. And what
15 we're -- we're -- what we're going to focus on here
16 are Columns B, C, and D. And so these were various
17 asset mixes that Mercer considered and ultimately
18 decided upon the middle, or C, Portfolio. Is that
19 correct?

20 MR. DAVID MAKARCHUK: When we say that
21 Mercer decided, Mercer decided for the shadow
22 portfolio?

23 MR. ROBERT WATCHMAN: Yes.

24 MR. DAVID MAKARCHUK: Yes. The -- the
25 compilation of 'A', 'B', 'C', 'D', and 'E' are

1 probably from 2017, as we were doing the asset mix
2 review. We've already talked about Asset Mix A. It
3 was an illustration of -- well, if you just want to
4 mitigate real interest rate risk, you choose 'A'.

5 'B' was chosen to say, well, if you
6 want to achieve the same return, four point two (4.2)
7 -- keep the four point two (4.2) but reduce risk as
8 much as you could, you might choose Portfolio B.

9 Portfolio D said, well, if you were
10 comfortable with the risk level of the three point
11 eight (3.8) but you wanted to enhance returns with the
12 chosen asset classes, you might choose Portfolio D.

13 Portfolio C was perhaps less
14 scientific, more artistic, but also looking at the
15 efficient frontier that you would drive -- draw
16 between these points and say, what would be a middle
17 ground or a balance of return enhancement versus
18 current? It was four point two (4.2). Move it to
19 four point five (4.5), and risk mitigation, surplus
20 volatility going from three point eight (3.8) to three
21 point one (3.1).

22 So we chose the shadow portfolio here
23 to say, essentially, that had the portfolio -- sorry,
24 had the Corporation chosen to mitigate real interest
25 rate risk, and had the port -- the Corporation been

1 comfortable with each of the asset classes that were
2 explored, it plausibly would have chosen the middle
3 portfolio, Column -- Column C. And that was used as
4 an illustration of the sado -- shadow portfolio for
5 the purposes of the discussion.

6 MR. ROBERT WATCHMAN: Okay. And in
7 that regard, looking at 'C', the middle, two (2)
8 things that are interesting is -- my understanding is
9 that real estate and infrastructure are considered to
10 be hedges against inflation. Is that correct?

11 MR. DAVID MAKARCHUK: There are
12 elements of real estate and infrastructure that are
13 more interest rate -- or inflation sensitive than some
14 of these asset classes. Neither should be considered
15 as good a hedge for inflation, especially Manitoba
16 CPI, as Real Return Bonds. Given the infrastructure
17 portfolio that MPI has right now, very few of the
18 assets, I assume, are specifically tied to Manitoba
19 CPI.

20 MR. ROBERT WATCHMAN: Okay. But --
21 but --

22 MR. DAVID MAKARCHUK: But you -- but
23 you're right. They're better than some of the others
24 for that purpose.

25 MR. ROBERT WATCHMAN: So do you recall

1 if that was part of the decision process in terms of
2 looking at the allocation to real es -- Real Return
3 Bonds but also adding some inflation hedge by
4 including investment in real estate and
5 infrastructure?

6 MR. DAVID MAKARCHUK: Our return
7 assumptions for real estate and infrastructure,
8 relative to some of these other asset classes, was not
9 as attractive in terms of pushing out the efficient
10 frontier -- or, getting closer to the efficient
11 frontier. Therefore, you see that -- or the current
12 has an allocation of ten (10) and five (5) to real
13 estate and infrastructure.

14 And so even though we have, in this
15 analysis, a real liability benchmark in this case,
16 when we were looking for optimal points with either
17 same return or same risk, both of those allocations
18 actually came down rather than came up.

19 So from a modelling perspective, there
20 was other compilations that were more attractive on a
21 return-to-risk basis, probably primarily because the
22 3X Real Return Bonds were so efficient in that regard.
23 They are the best bet.

24 MR. ROBERT WATCHMAN: And just -- and
25 just so I understand the 3X Real Return Bonds, now

1 you've indicated an allocation of 16 percent?

2 MR. DAVID MAKARCHUK: In the middle.

3 Yeah.

4 MR. ROBERT WATCHMAN: And so when you
5 talked about, well, there's, you know, one third (1/3)
6 that the purchaser would pay for, and then two thirds
7 (2/3) that the purchaser would leverage by borrowing -
8 -

9 MR. DAVID MAKARCHUK: Yeah.

10 MR. ROBERT WATCHMAN: -- I take it the
11 16 percent is the -- is the one third (1/3) that is
12 owned?

13 MR. DAVID MAKARCHUK: Correct.

14 MR. ROBERT WATCHMAN: So that would be
15 --

16 MR. DAVID MAKARCHUK: Really, forty-
17 eight (48).

18 MR. ROBERT WATCHMAN: So you're not
19 recording the leveraged bonds as being owned in this
20 allocation.

21 Is that correct?

22 MR. DAVID MAKARCHUK: Yeah. This is
23 to ensure that the sum totals to 100 percent, which
24 many people expect. This is the allocation of --
25 let's say there was a hundred dollars for the

1 portfolio, sixteen dollars (\$16) would go to 3X Real
2 Return Bonds.

3 Practically speaking, you've got more
4 than a hundred dollars of actual exposure. There's
5 gives and takes as to what the better illustration may
6 be.

7 MR. ROBERT WATCHMAN: All right.

8 MR. DAVID MAKARCHUK: But for this
9 case, for this purpose, this is how we did it.

10 MR. ROBERT WATCHMAN: Okay. And so if
11 we could relate that to the 24 percent, sixteen (16)
12 3X Real Return Bonds represents more than 24 percent
13 of the total assets?

14 MR. DAVID MAKARCHUK: It does.

15 MR. ROBERT WATCHMAN: Is that correct?
16 It doesn't represent 48 percent, but it -- there's
17 some --

18 MR. DAVID MAKARCHUK: Materially, it
19 is. It's 3X -- is -- is my math bad?

20 MR. ROBERT WATCHMAN: Well, it would -
21 - then your number would be out of 132 percent, right
22 --

23 MR. DAVID MAKARCHUK: But -- but
24 practically speaking, had you chosen middle, or had
25 inve -- middle been invested in, the portfolio would

1 have a hundred and thirty-two dollars (\$132) of
2 investment exposure. That's what the leverage
3 essentially is. So I'd actually say that, yes, it is
4 132 percent. Correct.

5 MR. ROBERT WATCHMAN: So -- and -- and
6 I -- just the -- the point I wanted to make is that
7 this actually represents a greater investment in Real
8 Return Bonds than the 24 percent in the constrained
9 shadow portfolio?

10 MR. DAVID MAKARCHUK: Yes. The
11 constrained had a few constraints, one (1) of which
12 was the amount of Real Return Bonds included in it.

13 This -- this piece would more fully
14 hedge the real liability risk.

15 MR. ROBERT WATCHMAN: Thank you.
16 Kristen, if we could just turn to Information Request
17 PUB-MPI-1-36. Again, and we looked at Part A. If we
18 just look at Part B, which was an explanation with
19 respect to the leverage bond.

20 And could you just indicate so the cost
21 related to the yield for investing in this type of,
22 you know, a leveraged Real Return Bond?

23 MR. DAVID MAKARCHUK: A cost incor --
24 ask your question again, if you don't mind, please.

25 MR. ROBERT WATCHMAN: So the question

1 is -- is if you could just explain for us the cost
2 implement -- implication when leveraging these types
3 of bonds. Because if we're -- if we're leveraging,
4 we're borrowing, we're paying interest.

5 How does that relate to the return we
6 would expect?

7 MR. DAVID MAKARCHUK: Right. So when
8 one talks about costs, sometimes we're referring to
9 the operating costs of the investment management
10 phase. Sometimes they're talking about the borrowing
11 costs, or the invitation fees. Which one are you
12 referring to?

13 MR. ROBERT WATCHMAN: I'm referring to
14 I'm referring to the leverage costs as indicated,
15 which I think is the borrowing --

16 MR. DAVID MAKARCHUK: Are --

17 MR. ROBERT WATCHMAN: -- cost.

18 MR. DAVID MAKARCHUK: -- a return.

19 Okay. So -- and thank you.

20 So in terms of what I've written here,
21 or we've written here, these are the borrowing costs
22 included in the expected return. And so had the
23 Corporation -- or if the Corporation could choose to
24 do an investment like this, they would put in their
25 dollar. They would borrow two (2) more dollars, and

1 receive three dollars (\$3) of Real Return Bond return.

2 The borrowing cost is the cost of
3 borrowing those two dollars (\$2). That is generally
4 at a rate that we call the CDOR, or the Canadian
5 Depository Overnight Rate, I think is the acronym. It
6 is generally ninety-one (91) day T-bills, plus a
7 spread. It's today around 2 percent per annum.

8 MR. ROBERT WATCHMAN: Thank you.
9 Kristen, if we could go back, then, to slide 13 of the
10 Mercer report.

11 I think this might help us, because we
12 have it graphically. And we're looking now at
13 efficient frontier analysis.

14 Is that correct?

15 MR. DAVID MAKARCHUK: Yes.

16 MR. ROBERT WATCHMAN: And so just to
17 relate this to the table, as indicated, you looked --
18 you did a same risk analysis. So in other words, you
19 went straight vertical from the current allocation
20 mix?

21 MR. DAVID MAKARCHUK: Yeah.

22 MR. ROBERT WATCHMAN: And then you
23 compared that to a same return analysis, which was
24 moving across to the -- I was going to say northwest,
25 but not quite -- moving straight across, left on the

1 horizontal axis?

2 MR. DAVID MAKARCHUK: Yeah.

3 MR. ROBERT WATCHMAN: And that would
4 give you -- and then what you -- you'd -- basically,
5 you chose the point along the efficient frontier that
6 was halfway between the same return analysis and a
7 same risk analysis.

8 Is that correct?

9 MR. DAVID MAKARCHUK: Right. So these
10 are the points that were on a prior table. Again,
11 I've mentioned there's a bit of art, a bit of science.
12 This is what we otherwise have suggested as what a
13 reasonable shadow portfolio might have been, given we
14 didn't really have an investor to talk to who might
15 have said, All right, if this is my group of asset
16 classes I could choose from, and I wanted to balance
17 return enhancements and risk mitigation, and my
18 liability benchmark is a real one, middle C is a good
19 illustration of what that portfolio might have looked
20 like.

21 MR. ROBERT WATCHMAN: And so when --
22 on this graph, we see that as compared to Basic 3,
23 which was the portfolio selected, effectively, you
24 would expect greater return at less risk --

25 MR. DAVID MAKARCHUK: Relative to the

1 real liability benchmark.

2 MR. ROBERT WATCHMAN: -- relative.

3 Right.

4

5 (BRIEF PAUSE)

6

7 MR. ROBERT WATCHMAN: If we could
8 turn, then, to the pension portfolios on slide 15,
9 Kristen.

10

11 (BRIEF PAUSE)

12

13 MR. ROBERT WATCHMAN: So again, we
14 have a similar -- in terms of the constrained
15 portfolio, we have a similar table. And we'll go
16 through those points in a minute.

17 I just noticed in -- in the box at the
18 bottom, the risk return metrics, we now -- now have a
19 new term, return volatility.

20 Could you explain what that is?

21 MR. DAVID MAKARCHUK: Surplus
22 volatility was the variation per year in terms of the
23 actual return relative to the obligation. Return
24 volatility is just the annual standard deviation of
25 the asset return.

1 It certainly could have been on the
2 prior tables. It's shown here for illustration. I
3 don't know if we added the yellow or you did, but it's
4 -- it's just another statistic.

5 MR. ROBERT WATCHMAN: Now if we look
6 at -- okay, so the -- the 2017 current, we know that's
7 the pre-implementation asset mix, correct?

8 MR. DAVID MAKARCHUK: Yeah.

9 MR. ROBERT WATCHMAN: And then the --
10 Column A, the lowest risk, that invested 71 percent of
11 the assets into Real Return Bonds?

12 MR. DAVID MAKARCHUK: Correct.

13 MR. ROBERT WATCHMAN: And -- and
14 again, we have that issue where low risk but low
15 return. Is that --

16 MR. DAVID MAKARCHUK: Yeah.

17 MR. ROBERT WATCHMAN: -- fair to say?
18 So then we have the Column B, Pension 1. That is the
19 pension portfolio selected by the Corporation?

20 MR. DAVID MAKARCHUK: Yeah.

21 MR. ROBERT WATCHMAN: And then C is
22 the pension portfolio allocation, including Real
23 Return Bonds. And this time, the allocation was
24 selected to be 10 percent Real Return Bonds.

25 Can you explain how you came up with 10

1 percent?

2 MR. DAVID MAKARCHUK: From memory, I
3 think it was a discussion of we have 40 percent fixed
4 income to play with. Our duration is otherwise
5 relatively long. Everything was either in long
6 corporates or long private debt. So the duration was
7 otherwise sufficient.

8 Portfolios C was -- well, here's an
9 illustration with some Real Return Bond exposure as
10 well. Both long-term corporates and private debt long
11 would have had a higher expected return. So -- so as
12 not to compromise the expected return too much, a 10
13 percent amount was illustrated.

14 I can't from memory tell you that our
15 analysis is much more robust than that.

16 MR. ROBERT WATCHMAN: Well, it -- it -
17 - did it include a -- an efficient frontier analysis?
18 Do you recall?

19 MR. DAVID MAKARCHUK: Probably.
20 Sometimes the efficient frontier is just a -- like,
21 these are the chosen asset classes. The only thing we
22 were doing was taking something out of the fixed
23 income portfolio, moving it into Real Return Bonds.
24 We would have looked at the risk metrics, maybe looked
25 at what fifteen (15) or twenty (20) would have been.

1 We've illustrated ten (10).

2 MR. ROBERT WATCHMAN: Now it -- it --
3 and I don't know if this is coincidence, but the
4 allocation appears to be 50 percent of the corporate
5 bonds?

6 MR. DAVID MAKARCHUK: We kept the math
7 simple, yes. We might have just split it in half from
8 -- I don't recall exactly what we did to come up with
9 ten (10).

10 MR. ROBERT WATCHMAN: All right.
11 Okay. Thank you.

12 MR. DAVID MAKARCHUK: Given it was an
13 illustration.

14 MR. ROBERT WATCHMAN: Now for the
15 pension portfolio, it -- it -- again, it does include
16 real estate and infrastructure, so it already has some
17 inflation voluntary -- volatility protection built
18 into it, correct?

19 MR. DAVID MAKARCHUK: The real estate
20 infrastructure would have cor -- higher correlation to
21 RRBs than the Canadian equities and the global
22 equities, yeah.

23 MR. ROBERT WATCHMAN: So -- but, I
24 mean, just so relative to Real Return Bonds, you might
25 expect less rea -- Real Return Bonds in the pension

1 portfolio if you're going to maintain real estate and
2 infrastructure inve -- investments?

3 MR. DAVID MAKARCHUK: That's fair.
4 The -- to the extent that we're trying to mitigate
5 inflation risk, and we have some growth assets that
6 are correlated with inflation, you probably don't need
7 as much.

8 MR. ROBERT WATCHMAN: And again, I
9 should just note at the very bottom there, the
10 expected ten (10) year return is 3 percent. And I
11 take it that would be expected, given that you would
12 want some growth in this portfolio?

13 MR. DAVID MAKARCHUK: The -- the line
14 in the note?

15 MR. ROBERT WATCHMAN: No, yeah, the --
16 no, the very -- at the very bottom, yeah, the note
17 expected --

18 MR. DAVID MAKARCHUK: Yeah.

19 MR. ROBERT WATCHMAN: -- expected ten
20 (10) year --

21 MR. DAVID MAKARCHUK: So this is the -
22 - so again, so the pension portfolio had a slightly --
23 has a different duration, has a different makeup than
24 the Basic portfolio. This is a longer duration
25 portfolio, and so the liability benchmark growth is

1 slightly different. It's just a function of the
2 obligation. It's not a function of the investments.

3 MR. ROBERT WATCHMAN: Kristen, if we
4 could turn to the next slide, please.

5 And so again, here we have it
6 graphically. And I just want to make sure I don't
7 confuse the -- the two (2) key points, there, being
8 that the Pension 1 is the orange dot, and the Pension
9 4 is the blue dot?

10 MR. DAVID MAKARCHUK: I acknowledge
11 that the labeling is a little confusing, but I believe
12 that's correct. We can go -- to be 100 percent sure.
13 So the standard deviation of the -- what I believe is
14 Pension 4 is exactly eight (8), or very close. I
15 can't remember if the table's ahead or behind --

16 MR. ROBERT WATCHMAN: Back -- back one
17 (1), please, Kristen.

18

19 (BRIEF PAUSE)

20

21 MR. DAVID MAKARCHUK: So we should see
22 a number of --

23 MR. ROBERT WATCHMAN: Eight point zero
24 (8.0) for Pension 4.

25 MR. DAVID MAKARCHUK: -- eight point

1 zero (8.0), so I see -- let's go back, please.

2 Is -- yeah, so it's the -- the
3 notations are to the side, not above or below the
4 dots.

5 MR. ROBERT WATCHMAN: Right. And so
6 here, we don't -- now, there's only a 10 percent
7 investment in Real Return Bonds, so we don't really
8 receive much difference between risk and return
9 between the selected portfolio and the shadow
10 portfolio?

11 MR. DAVID MAKARCHUK: Right. Had we
12 done ten (10) more percent, it probably would have
13 moved that much further. Yeah. It doesn't move much,
14 because we're not changing much of the portfolio.

15 MR. ROBERT WATCHMAN: So that much for
16 the northwest, or --

17 MR. DAVID MAKARCHUK: You probably --
18 a somewhat straight, but a little bit of a curved
19 line. I'm not sure how want to note that in the
20 record, but.

21 MR. ROBERT WATCHMAN: And -- and
22 again, if we just look at the current, that represents
23 the pre-implementation of the ALM study?

24 MR. DAVID MAKARCHUK: That's right.

25 MR. ROBERT WATCHMAN: And again, we

1 see that while there's less return, there is less risk
2 in the asset mix prior to implementation?

3 MR. DAVID MAKARCHUK: Yes, relative to
4 the righ -- real liability benchmark.

5 MR. ROBERT WATCHMAN: Now if we could
6 turn to Slide 17, please. And this is where we come
7 to the unconstrained portfolio.

8 And so if we can compare then Column C
9 with Column E, one of the first thing that sort of
10 leaps out is that there was a constraint in the
11 pension portfolio selected E of 40 percent fixed
12 income but Mercers (sic) unconstrained increased that
13 to 72 percent.

14 Could you explain why that's -- why the
15 fixed income asset mix was increased so much?

16 MR. DAVID MAKARCHUK: So this is a
17 situation where if surplus volatility was a primary
18 metric and we wanted to enhance our information ratio
19 as best we could, we do that by fully hedging the real
20 interest rate risk as best we can, and therefore, we
21 have a significant amount of fixed income, including
22 some that's levered, so that we fully hedge the
23 interest rate volatility.

24 We still have some assets leftover for
25 equities and alternatives. It's a point where if this

1 is your opportunity set, you bring down the surplus
2 volatility significantly and still maintain a
3 reasonably good return.

4 MR. ROBERT WATCHMAN: And, again, just
5 the 3X Real Return Bonds at 8.5 percent -- and this
6 time, you looked at -- if we look at Column D, you
7 looked at 15 percent in 3X Real Return Bonds. Do
8 you -- do you recall again whether you can -- you did
9 an efficient frontier analysis to look at the
10 different allocations to Real Return Bonds?

11 MR. DAVID MAKARCHUK: Yes, we would
12 have. So we went through -- it's the same exercise
13 as -- as Basic.

14 We would have said, had you wanted to
15 maintain a similar return level, that would be
16 Column B; had you wanted to maintain a similar risk
17 level, that would be Column D; Column C was, what if
18 you wanted to balance both return enhancement and risk
19 mitigation.

20 This just shows how you do it in a
21 tabular format. It also would have been shown in a
22 graphical or efficient frontier format, but it's
23 mostly at midpoint, I suspect.

24 MR. ROBERT WATCHMAN: And, again, that
25 8.5 percent three times is -- would be relatively more

1 than the 10 percent that we looked at in the
2 constrained portfolio, correct?

3 MR. DAVID MAKARCHUK: Yeah. There was
4 none in the constrained portfolio.

5 MR. ROBERT WATCHMAN: Oh, I'm sorry.
6 In the shadow portfolio number 1. The pension shadow
7 portfolio number 1 -- I think you referred to it as
8 portfolio 3.

9 MR. DAVID MAKARCHUK: Yes. Sorry.
10 Yeah. There's --

11 MR. ROBERT WATCHMAN: It was
12 10 percent Real Return Bonds, if memory serves --

13 MR. DAVID MAKARCHUK: Yeah. I don't
14 think there was any leverage -- there was no 3X in
15 Shadow Portfolio 1 pension.

16 MR. ROBERT WATCHMAN: And so the
17 3X Real Return Bonds at 8.5 percent would represent,
18 relatively speaking, more than 10 percent of the
19 entire portfolio.

20 MR. DAVID MAKARCHUK: Yeah. It'd be
21 three (3) times eight point five (8.5).

22 MR. ROBERT WATCHMAN: Well, then we'd
23 go over a hundred percent. But --

24 MR. DAVID MAKARCHUK: But -- so I'm
25 not sure --

1 MR. ROBERT WATCHMAN: So I'm saying,
2 like, the relative allocation within the portfolios.
3 So when you compared Shadow Portfolio 1 pension, it's
4 10 percent, correct?

5 MR. DAVID MAKARCHUK: Right. There's
6 much more Real Return Bond exposure in Shadow
7 Portfolio 2 pension than in Shadow Portfolio 1
8 pension.

9 MR. ROBERT WATCHMAN: Right.

10 MR. DAVID MAKARCHUK: And similar to
11 in Basic where there was a constrained amount of
12 hedging on the real liability benchmark, and then
13 there was an unconstrained amount which fully hedged
14 it. This is in -- a portfolio that fully hedged the
15 real interest rate risk.

16 MR. ROBERT WATCHMAN: If we could just
17 look at that bottom box there in that highlighted
18 return volatility -- 'cause you spoke about surplus
19 volatility.

20 And if we look at -- compare Column C
21 to Column E, surplus volatility, as you said, was a
22 concern as it was 8.4 percent under the pension that
23 was selected -- pension portfolio selected, and by an
24 unconstrained portfolio, it was reduced to 3.2
25 percent, correct?

1 MR. DAVID MAKARCHUK: Yeah.

2 MR. ROBERT WATCHMAN: Okay. But
3 then -- now we see at the same time, we see return
4 volatility going from 7.7 percent to 9.3 percent. Is
5 that a good thing or a bad thing?

6 MR. DAVID MAKARCHUK: Half of
7 volatility is good, and half of volatility is bad. So
8 it depends on your point of view.

9 We expected the performance of C on an
10 absolute return basis to be more volatile than E.
11 Relative to a real liability benchmark, we expect C to
12 be less volatile than E.

13 MR. ROBERT WATCHMAN: If we could turn
14 to the next slide then, and here we have it
15 graphically again.

16 Now, what seems to leap out in this
17 illustration is that the Pension 1 that was selected
18 by the Corporations seems to be much farther to the
19 right along the horizontal axis which we don't want to
20 see than either the current or the shadow portfolio
21 analysis that Mercers (sic) conducted.

22 MR. DAVID MAKARCHUK: Relative to a
23 real liability benchmark, that's correct.

24 MR. ROBERT WATCHMAN: Kristen, if we
25 could turn to Information Request PUB-MPI-1-35.

1 And you'll see here, Mr. Makarchuk,
2 that the Board advisors requested some forecasting as
3 between the Basic and pension shadow portfolios and
4 the actual investment portfolios.

5 And the indication in the response was
6 that:

7 "There are several asset classes
8 that are not included in MPI's
9 actual portfolios. Therefore, we
10 have not developed the forecasting
11 methodology for these asset
12 classes."

13 Are you aware of any practical
14 limitation in calculating estimated yields on the
15 shadow portfolios such that they could be compared to
16 forecasts for the actual portfolios?

17 MR. DAVID MAKARCHUK: Especially over
18 the short term and especially for the alternatives,
19 it's really challenging to find a robust short-term
20 forecast that, I think, would be credible for -- to
21 satisfy all the parties, private equity in particular.

22 I had spoke about this briefly earlier
23 this morning. Especially if you're doing a one-year
24 forecast, there's so many different variables in terms
25 of when you're going to get the money in place, the

1 depth of the J-curve, the diversification of the
2 portfolio, and what the actual returns would be. And
3 that's difficult, extremely difficult.

4 For the fixed income pieces, while it's
5 possible to come up with an expected return, assuming
6 that the yield curve doesn't move and perhaps a return
7 based on forward rates, the last six (6) months has
8 very much reminded us that short-term forecasting is
9 extremely difficult. And had MPI or any other entity
10 on April 1st -- or March 1st forecasted a six (6)
11 month return for, frankly, any of the asset classes,
12 no one would have hypothesized a six (6) month return
13 on some of these asset classes that actually happened.

14 So especially in the short term, this
15 is really hard. We share our return assumptions.
16 Typically over a ten (10) to twenty (20) year period,
17 we're willing to say five (5) but with some caveats.
18 It's really difficult to forecast returns in the short
19 term, especially when you need -- you consider the
20 practical implementation considerations.

21 MR. ROBERT WATCHMAN: Okay. And --
22 and as -- you just touched upon it that the -- it's
23 fair to say, as far as you're aware, that the
24 performance in the first six (6) months of MPI's
25 current fiscal year have been unprecedented?

1 MR. DAVID MAKARCHUK: I'm not sure if
2 I'd use the word 'unprecedented' or not --

3 MR. ROBERT WATCHMAN: Well, that might
4 be my word, but --

5 MR. DAVID MAKARCHUK: Okay. They have
6 been well beyond what reasonable expectations might
7 have been, not just in Canada but globally. The
8 middle part of our yield curve went to a all-time low,
9 certainly in terms of people in this room, the first
10 week of July, and then managed to plunge another
11 thirty-ish basis points through -- August 15th was the
12 bottom.

13 That's resulted in really strong fixed
14 income performance across all different asset classes.
15 A challenge going forward is it's really hard to see
16 strong performance from fixed income into the future,
17 given how low yields are as a result of what we see.

18 MR. ROBERT WATCHMAN: Thank you. Just
19 one (1) -- one (1) moment, please.

20

21 (BRIEF PAUSE)

22

23 MR. ROBERT WATCHMAN: Okay. Thank
24 you. And then this question might be more directed to
25 the Corporation. But can the Corporation indicate the

1 direction and, if possible, the order of magnitude of
2 the impact of the shadow portfolios on Basic MCT
3 ratio, all others -- all other things being equal?

4 MR. STEVEN SCARFONE: So Mr. Watchman,
5 I think you'll appreciate that that -- that question
6 is probably best put to Mr. Johnston, so I don't know
7 that we can answer it here. We can probably take that
8 away as an undertaking, unless Mr. Bunston says that
9 he's prepared to take a stab at it. He wants to defer
10 to our chief actuary.

11 MR. ROBERT WATCHMAN: Okay. Thank
12 you. Then if we could have that as a -- as an
13 undertaking then, that the Corporation will undertake
14 to indicate the direction and, if possible, the order
15 of magnitude of the impact of the shadow portfolio on
16 Basic MCT ratio, all other things being equal.

17 MR. STEVEN SCARFONE: Right. So just
18 touching upon some of the evidence that Mr. Makarchuk
19 gave in his examination in-chief then?

20 MR. ROBERT WATCHMAN: Yes.

21 MR. STEVEN SCARFONE: Yes. Okay.
22 Very good. We'll give that undertaking.

23

24 --- UNDERTAKING NO. 24: MPI undertake to indicate
25 the direction and, if

1 possible, the order of
2 magnitude of the impact of
3 the shadow portfolio on
4 Basic MCT ratio

5
6 MR. ROBERT WATCHMAN: And -- and
7 perhaps supplementary to that, can the Corporation
8 confirm that any investment portfolio change that
9 impacts Basic MCT ratio will consequently have a
10 potential impact on any capital build release
11 provision that arises from the capital management
12 plan?

13 MR. STEVEN SCARFONE: Yes. So that
14 definitely sounds like a Luke Johnston question, and
15 we'll put that to him. So is that a second
16 undertaking, or is all one (1)...?

17 MR. ROBERT WATCHMAN: Well, we will
18 take it as two (2) undertakings then, separate
19 undertakings.

20 MR. STEVEN SCARFONE: Very good.

21 MR. ROBERT WATCHMAN: And just for the
22 record again, the second undertaking is to confirm
23 that any investment portfolio change that impacts the
24 Basic MCT ratio will consequently have a potential
25 impact on any capital build or release provision that

1 arises from the capital management plan.

2 MR. STEVEN SCARFONE: Yes.

3

4 --- UNDERTAKING NO. 25: MPI to confirm that any
5 investment portfolio
6 change that impacts the
7 Basic MCT ratio will
8 consequently have a
9 potential impact on any
10 capital build or release
11 provision that arises from
12 the capital management
13 plan

14

15 DR. BYRON WILLIAMS: Madam Chair,
16 might I ask a question of clarification just for the
17 un -- undertaking. Is it for Shadow Portfolio 1 and
18 Shadow Portfolio 2?

19 MR. ROBERT WATCHMAN: It -- it's for
20 each of the shadow -- oh, sorry, each of the Basic
21 shadow portfolios.

22 DR. BYRON WILLIAMS: Okay.

23 MR. STEVEN SCARFONE: Thank you, Mr.
24 Williams.

25 MR. ROBERT WATCHMAN: Thank you, Mr.

1 Makarchuk. Madam Chair, those are all my questions.

2 THE CHAIRPERSON: Thank you. It's
3 11:53, so we'll break for lunch now. Mr. Makarchuk,
4 what time's your flight?

5 MR. DAVID MAKARCHUK: 6:00.

6 THE CHAIRPERSON: 6:00.

7 MR. DAVID MAKARCHUK: I got time.

8 THE CHAIRPERSON: Excellent. Okay,
9 we'll break until one o'lo -- one o'clock, then.
10 Thank you.

11

12 --- Upon recessing at 11:54 a.m.

13 --- Upon resuming at 12:58 p.m.

14

15 THE CHAIRPERSON: Good afternoon. I
16 think that we are at a stage where Mr. Williams for
17 cross-examination.

18 MR. STEVEN SCARFONE: Just before
19 Mr. Williams begins, Madam Chair -- sorry,
20 Mr. Williams -- the undertakings are slowly trickling
21 in, and we have another exhibit to mark, this one
22 being MPI Exhibit number 64 which is a response to
23 Undertaking number 5.

24 THE CHAIRPERSON: Thank you.

25

1 --- EXHIBIT NO. MPI-64: Response to Undertaking 5

2

3 CROSS-EXAMINATION BY DR. BYRON WILLIAMS:

4 DR. BYRON WILLIAMS: Good afternoon,
5 members of the panel. Just for your information,
6 there will be a bit of trespassing upon the same area
7 as My Learned Friend for the PUB crossed hopefully to
8 a different point.

9 I'll ask Kristen to pull up the shadow
10 portfolios, so the Application Part 6, Investment
11 Attachment A, and go to page 9, please.

12 And, sir, I sometimes struggle over
13 the -- over last names. So should I say Makarchuk?
14 How is my waspish tongue -- how do I perform? How
15 should I say your name, sir?

16 MR. DAVID MAKARCHUK: Depending on how
17 Ukranian you'd like to be, Makarchuk or Makarchuk
18 are -- are both fine.

19 DR. BYRON WILLIAMS: So Makarchuk
20 would be satisfactory.

21 MR. DAVID MAKARCHUK: In Manitoba,
22 that would be more than acceptable.

23 DR. BYRON WILLIAMS: You recall some
24 discussion with My Learned Friend, counsel for the
25 Public Utilities Board, about the term "surplus

1 volatility" earlier today, sir?

2 MR. DAVID MAKARCHUK: Yeah.

3 DR. BYRON WILLIAMS: And just for the
4 purpose of defining that term when we speak of
5 surplus, the surplus at risk is the risk that assets
6 will grow slower than liabilities. Would that be
7 fair, sir?

8 MR. DAVID MAKARCHUK: The term
9 surplus -- I just want to repeat it -- the term
10 "surplus at risk" --

11 DR. BYRON WILLIAMS: Is the risk that
12 assets will grow slower than liabilities.

13 MR. DAVID MAKARCHUK: Most
14 specifically, it's the risk that they grow
15 differently --

16 DR. BYRON WILLIAMS: Okay.

17 MR. DAVID MAKARCHUK: -- than the
18 liabilities. The volatility --

19 DR. BYRON WILLIAMS: And volatility is
20 the --

21 MR. DAVID MAKARCHUK: -- the
22 volatility can be good, and volatility can be bad.

23 DR. BYRON WILLIAMS: Right. And
24 volatility is the statistical measure of the
25 dispersion of the surplus. Agreed?

1 MR. DAVID MAKARCHUK: Correct.
2 Technically when we talk about volatility, as
3 illustrated on this page, we actually mean standard
4 deviation for those who want to recall in their
5 statistics from -- from junior high or whenever you
6 learned it. But it's practically the one (1) year
7 standard deviations that we've been talking about
8 through the day.

9 DR. BYRON WILLIAMS: And, sir, in
10 terms of the bad standard deviation or dispersion of
11 which you were speaking, that would be theoretically
12 the risks that a fully funded plan would move to
13 negative surplus, meaning that the liabilities would
14 be greater than the assets, correct?

15 MR. DAVID MAKARCHUK: It's the risk
16 that in a time horizon, the return on the assets would
17 be different than the return on the obligation as a
18 liability. And if you starting -- your starting point
19 was a fully funded plan and you had a negative event,
20 it would become less than fully funded.

21 DR. BYRON WILLIAMS: Thank you. And,
22 sir, when we see the -- on the horizontal axis the
23 term "excess return volatility," we can take that as
24 representing surplus volatility, sir?

25 MR. DAVID MAKARCHUK: Correct.

1 DR. BYRON WILLIAMS: And again, the
2 higher the volatility, the riskier the portfolio in a
3 surplus context, sir?

4 MR. DAVID MAKARCHUK: Right. The more
5 variation in results you would expect.

6 DR. BYRON WILLIAMS: And, sir, if in
7 the course of our conversation you hear me refer to
8 "risk or "volatility," you understand that I am
9 referring to surplus risk?

10 MR. DAVID MAKARCHUK: Right. And
11 that's almost always what we refer to. I think as we
12 pointed out this morning, occasionally we talk about
13 just return volatility, but almost always in this
14 project, we talk about the same thing.

15 DR. BYRON WILLIAMS: And whether we
16 look at Shadow Portfolios 1, 2, 3, or 4, the
17 horizontal axis will always be focused upon surplus
18 volatility, correct?

19 MR. DAVID MAKARCHUK: Correct.

20 DR. BYRON WILLIAMS: And that indeed
21 is the primary metric of risk in your analysis, sir.

22 MR. DAVID MAKARCHUK: Right. There's
23 times we would report the return volatility 'cause it
24 shouldn't be completely ignored, but it was clear
25 early on in the project that surplus volatility was

1 what was important to MPI.

2 DR. BYRON WILLIAMS: And turning to
3 the vertical axis on the left of slide 9, we see that
4 it is measured as the expected excess return above the
5 liability benchmark, sir?

6 MR. DAVID MAKARCHUK: Correct.

7 DR. BYRON WILLIAMS: And assuming full
8 funding, that would be a growth in surplus?

9 MR. DAVID MAKARCHUK: Yeah.

10 DR. BYRON WILLIAMS: And on the
11 vertical axis, all other things being equal, we want
12 to go up.

13 MR. DAVID MAKARCHUK: Absolutely.

14 DR. BYRON WILLIAMS: Going to slide 8,
15 please, of this same document.

16 And, sir, again, this is within the
17 context of a real liability benchmark? Agreed?

18 MR. DAVID MAKARCHUK: Agreed.

19 DR. BYRON WILLIAMS: And underneath
20 the table, sir, again you'll see the expected ten (10)
21 year return of the liability benchmark as 2.4 percent,
22 correct?

23 MR. DAVID MAKARCHUK: Yes. Down
24 there, yeah.

25 DR. BYRON WILLIAMS: So I want to

1 direct your attention three (3) rows up from the
2 bottom of the table to expected ten (10) year return,
3 and you see the first entry under "current 2017" is
4 4.2 percent, sir? Do you see that?

5 MR. DAVID MAKARCHUK: Yeah.

6 DR. BYRON WILLIAMS: If the expected
7 ten (10) year return is 4.2 percent and the expected
8 return of the liability benchmark is 2.4 percent, the
9 excess return is plotted on the 'Y' axis of slide 9
10 would be the difference, I'll suggest to you, sir,
11 being 1.8 percent?

12 MR. DAVID MAKARCHUK: And hopefully
13 that's what it was.

14 DR. BYRON WILLIAMS: And if we want to
15 just go back there.

16 MR. DAVID MAKARCHUK: Okay. Look at
17 that.

18 DR. BYRON WILLIAMS: Yeah.

19 MR. DAVID MAKARCHUK: So...

20 DR. BYRON WILLIAMS: Okay. So that's
21 how it works, sir. Okay. Back to Slide 8.

22 And again, you've had a bit of this
23 conversation with My Learned Friend from MPI, but
24 when -- under the nomenclature at the top
25 "2017 current," that's the old MPI portfolio as it

1 stood in 2017 before MPI adopted its current asset
2 liability matching strategy? Agreed?

3 MR. DAVID MAKARCHUK: Correct.

4 DR. BYRON WILLIAMS: So we should not
5 be misled by the term "current" because current
6 represents an approach that MPI has rejected. Agreed,
7 sir?

8 MR. DAVID MAKARCHUK: Yeah. I read
9 that to say "2017 current."

10 DR. BYRON WILLIAMS: And it -- that's
11 the approach that MPI no longer employs, correct?

12 MR. DAVID MAKARCHUK: Correct.

13 DR. BYRON WILLIAMS: And in terms of
14 Basic 3, this was what was selected by Manitoba Public
15 Insurance coming out of the Mercer's asset liability
16 study, sir?

17 MR. DAVID MAKARCHUK: Correct.

18 DR. BYRON WILLIAMS: So if I use the
19 terms "Basic 3" and "MPI selected" interchangeably,
20 you'll understand what I'm saying?

21 MR. DAVID MAKARCHUK: Yes.

22 DR. BYRON WILLIAMS: And Basic 5 to
23 the right is the portfolio with 24 percent Real Return
24 Bonds, sir?

25 MR. DAVID MAKARCHUK: Yes.

1 DR. BYRON WILLIAMS: In essence, it is
2 the shadow portfolio that is represented in your
3 calculations on the comparison between the MPI
4 portfolios and the shadow portfolio?

5 MR. DAVID MAKARCHUK: It's the first
6 shadow portfolio or the constrained Basic shadow
7 portfolio. Those are the various terms we've been
8 using. Yeah.

9 DR. BYRON WILLIAMS: And, sir, the
10 only difference between it and the MPI selected
11 portfolio is a shift from one type of bonds without
12 inflation protection to another set of bonds with
13 inflation protection. Would that be fair?

14 MR. DAVID MAKARCHUK: Right. It's
15 less provincials, 24 percent reals.

16 DR. BYRON WILLIAMS: And, sir, this is
17 not an optimized portfolio?

18 MR. DAVID MAKARCHUK: No. No.

19 DR. BYRON WILLIAMS: No. It's just --

20 MR. DAVID MAKARCHUK: It wasn't -- it
21 wasn't on an efficient frontier.

22 DR. BYRON WILLIAMS: Yeah. It's just
23 another asset mixed constrained to move money frm one
24 bucket to another with no other buckets in play.
25 Would that be fair?

1 MR. DAVID MAKARCHUK: Right. It's an
2 illustration of -- had the Corporation preferred a
3 real benchmark rather than a nominal benchmark and had
4 this been the asset classes they would have been
5 comfortable with, it's a good illustration of where
6 they might have lended (sic).

7 DR. BYRON WILLIAMS: So it's
8 illustrative but not optimized. Agreed?

9 MR. DAVID MAKARCHUK: Agreed.

10 DR. BYRON WILLIAMS: And, sir, going
11 down towards to the bottle of this -- bottom, not
12 bottle, of this table on page 8 under Basic 3 in terms
13 of surplus volatility, you'll see that the MPI
14 selection has a surplus volatility in real terms of
15 4.5 percent, sir?

16 MR. DAVID MAKARCHUK: Yeah. Four
17 point five (4.5) is the surplus volatility.

18 DR. BYRON WILLIAMS: And its expected
19 ten (10) year return moving up a line is 3.1 percent,
20 correct?

21 MR. DAVID MAKARCHUK: That's right.

22 DR. BYRON WILLIAMS: Going over to the
23 right in terms of the shadow portfolio -- illustrative
24 shadow portfolio, its expected ten (10) year return is
25 3.1 percent? Correct?

1 MR. DAVID MAKARCHUK: Yeah.

2 DR. BYRON WILLIAMS: And its surplus
3 volatility is 3.2 percent, sir?

4 MR. DAVID MAKARCHUK: M-hm.

5 DR. BYRON WILLIAMS: So in terms of
6 the shadow portfolio, you actually selected a
7 portfolio for comparison purposes that has less risk
8 as measured in surplus volatility than the MPI
9 preference. Agreed?

10 MR. DAVID MAKARCHUK: Yes. If
11 they're -- if the viability benchmark is a real one
12 shifting to one with more Real Return Bonds, it will
13 reduce the surplus volatility.

14 DR. BYRON WILLIAMS: And it's a
15 significant reduction in surplus volatility as
16 compared to the MPI selection as measured in real
17 terms, sir?

18 MR. DAVID MAKARCHUK: Yeah. I'd say a
19 move from four point five (4.5) to three point two
20 (3.2) is significant.

21 DR. BYRON WILLIAMS: So just
22 analytically, sir, when you're doing the comparison
23 between the MPI selected and the shadow portfolio,
24 you're not starting with risk as measured in surplus
25 volatility as a constant in comparing returns.

1 MR. DAVID MAKARCHUK: Certainly not
2 for Shadow Portfolio 1. Certainly not for Shadow
3 Portfolio 1.

4 DR. BYRON WILLIAMS: So in essence
5 you'll be comparing the returns of portfolios with
6 different risk profiles.

7 MR. DAVID MAKARCHUK: The return
8 expectations you'll see was the same. Again, the --
9 the goal or the perceived goal of the ask for Shadow
10 Portfolio 1 was in a constrained world where these
11 were acceptable asset classes, and RRBs Real Return
12 Bonds were included. What is a good illustration of
13 what it might end up being? And we landed on
14 24 percent RRB allocation for the reasons we've
15 discussed earlier. That's what this piece
16 illustrates.

17 DR. BYRON WILLIAMS: And we'll come
18 back to those, sir. I wonder if we can go to Slide 9
19 for a moment.

20 MR. DAVID MAKARCHUK: Sure.

21 DR. BYRON WILLIAMS: And, sir, when I
22 use the term "the efficient frontier," I'm referring
23 to a set of optimal portfolios that offer the highest
24 expected return for a defined level of risk or the
25 lowest risk for a given level of expected return. Is

1 that a terminology that you're comfortable with, sir?

2 MR. DAVID MAKARCHUK: Yeah.

3 DR. BYRON WILLIAMS: And again,
4 portfolios that lie below the efficient frontier are
5 sub-optimal because they do not provide enough return
6 for the level of risk, correct?

7 MR. DAVID MAKARCHUK: Correct.

8 DR. BYRON WILLIAMS: And of course as
9 you discussed with My Learned Friend from the PUB --
10 you did not chart out the efficient frontier of the
11 MPI selected 3 or its shadow portfolio 5 on slide 9,
12 correct?

13 MR. DAVID MAKARCHUK: No. We -- we
14 don't have a line on this one. It would have --

15 DR. BYRON WILLIAMS: You did it
16 another -- in other charts later on though. Agreed?

17 MR. DAVID MAKARCHUK: Right.

18 DR. BYRON WILLIAMS: You did
19 undertake -- you did do that analysis though, did you,
20 sir?

21 MR. DAVID MAKARCHUK: Yeah. It's not
22 illustrated here just -- 'cause we got lots of boxes
23 going on. The efficient frontier with the asset
24 classes that are in scope would have run in between --
25 started at the lowest risk point and then run

1 somewhere in between the two (2) basic points and the
2 current. The current includes a mass of classes that
3 aren't included in this piece.

4 DR. BYRON WILLIAMS: And, sir, we'll
5 come back to -- just in terms of what I've heard you
6 just say, I believe I heard you say that the MPI
7 selected in terms of the real liability benchmark
8 would be below the efficient frontier and the
9 Basic 5 -- the shadow portfolio -- in terms of the
10 real liability benchmark would be to the left and
11 above the efficient frontier? Is that what you said,
12 sir?

13 MR. DAVID MAKARCHUK: No. Sorry if --

14 DR. BYRON WILLIAMS: That's -- maybe I
15 misheard you, sir.

16 MR. DAVID MAKARCHUK: Yeah. So if --
17 if we accepted the -- if we wanted to draw an
18 efficient frontier on this page with the asset classes
19 that are in the scope -- essentially the fixed income
20 asset classes -- you would start at the lowest risk
21 point and then kind of draw out and go above Basic 5,
22 below current, and above Basic 3.

23 DR. BYRON WILLIAMS: Sir, I wonder if
24 you would undertake to chart out the efficient
25 frontier for Basic 3 and Basic 5 for slide 9,

1 recognizing that you've already done the analysis,
2 sir.

3 MR. DAVID MAKARCHUK: I'm sure we can
4 add that as an undertaking. That's -- I don't know.
5 It's not for me to say.

6

7 (BRIEF PAUSE)

8

9 MR. STEVEN SCARFONE: Just before we
10 provide that undertaking, Mr. Williams, for -- for
11 what purpose is the frontier needed? Because I ask --
12 perhaps you could ask Mr. Makarchuk if it would
13 provide any benefit --

14 DR. BYRON WILLIAMS: I have my own
15 conclusions on that.

16 Madam Chair, the question is what is
17 presumably the relevance of this document. As this
18 panel is well aware, in terms of optimization, that's
19 a standard tool in terms of assessing portfolios. It
20 was done for two (2) of the -- of the -- the four (4)
21 shadow portfolios here.

22 Our client wishes to understand to what
23 degree Shadow Portfolio 1 differs from an optimized
24 portfolio. And you heard questions from the Public
25 Utilities Board legal counsel earlier today trying to

1 get at that same issue in terms of was it optimized or
2 not and what is the gap in terms of optimization. And
3 an efficient frontier, which has already been done,
4 would give insight into that.

5 THE CHAIRPERSON: Thank you. One (1)
6 moment, please.

7

8 (BRIEF PAUSE)

9

10 THE CHAIRPERSON: Thank you. Yes, we
11 would -- okay -- like MPI to proceed with that
12 undertaking to provide the efficient frontier for page
13 number 9 of this presentation.

14 MR. STEVEN SCARFONE: Okay. So --
15 just so we're clear, Madam Chairperson, is it just the
16 one (1) frontier, or is it both that Mr. Williams is
17 looking for?

18 DR. BYRON WILLIAMS: They've done the
19 calculation for the eff -- the efficient frontier. We
20 would like it portrayed on -- with regard to Shadow
21 Portfolio 1. I'm not asking in terms of Shadow
22 Portfolio 3.

23 MR. STEVEN SCARFONE: Okay.

24 DR. BYRON WILLIAMS: Does that help,
25 Mr. Sc...?

1 MR. STEVEN SCARFONE: Yes. Thank you.

2 THE CHAIRPERSON: Thank you.

3

4 --- UNDERTAKING NO. 26: MPI to chart out the
5 efficient frontier for
6 Basic 3 and Basic 5 for
7 slide 9

8

9 CONTINUED BY DR. BYRON WILLIAMS:

10 DR. BYRON WILLIAMS: Mr. Ma --
11 Makarchuk, as we look at slide 9, again, if we are
12 comparing the MPI selected portfolio, we see in terms
13 of the real liability benchmark, its standard
14 deviation or surplus volatility is at around four
15 point five (4.5). Is that correct, sir?

16 MR. DAVID MAKARCHUK: Yeah.

17 DR. BYRON WILLIAMS: And to the left
18 of it is the shadow portfolio at -- at -- in the range
19 of three point one (3.1), correct?

20 MR. DAVID MAKARCHUK: Yeah.

21 DR. BYRON WILLIAMS: Again, the
22 analysis of these two (2) portfolios should understand
23 that they're not starting from the same level of risk,
24 correct?

25 MR. DAVID MAKARCHUK: Correct.

1 DR. BYRON WILLIAMS: And sir, if you
2 wanted to look at the shadow portfolio for Basic 5 at
3 the same level of risk as Basic 3, one (1) option
4 would be to move to the right in terms of surplus
5 volatility to four point five (4.5). Would that be
6 fair?

7 MR. DAVID MAKARCHUK: Yes. I'm not
8 sure where you're going with it, because it's hard to
9 move Basic 5 over there with RRBs.

10 DR. BYRON WILLIAMS: You -- you would
11 have to change the --

12 MR. DAVID MAKARCHUK: You would have
13 to shorten your provincials or something weird.

14 DR. BYRON WILLIAMS: So sir, if you
15 were trying to compare apples to apples in terms of
16 risk, you would have to have a different composition
17 for Basic 5?

18 MR. DAVID MAKARCHUK: Like, if you
19 wanted some RRBs in Basic 5 and you wanted volatility
20 of four and a half (4 1/2), we'd have to shorten the
21 duration of the provincials by some other sub-optimal
22 assets.

23

24 (BRIEF PAUSE)

25

1 DR. BYRON WILLIAMS: I wonder if --
2 Kristen, if you can turn up CAC-MPI-1-23F(4), the
3 question.

4 And Mr. Makar -- Makarchuk, while she's
5 doing that, as part of your duties, you follow the
6 bond markets closely, including issues by the
7 Government of Canada. Would that be fair, sir?

8 MR. DAVID MAKARCHUK: I'm not a fixed-
9 income trader, so there's probably others who follow
10 it more closely, but I'm somewhat aware.

11 DR. BYRON WILLIAMS: And sir, you --
12 you see in this question the asse -- the assertion
13 that there have been two (2) periodic Real Return Bond
14 auctions so far in 2019 totalling \$1.1 billion, with
15 the source being suggested as a government securities
16 auctions. You see that reference, sir?

17 MR. DAVID MAKARCHUK: Yeah, I see
18 that.

19 DR. BYRON WILLIAMS: Do you have any
20 reason to dispute that assertion, sir?

21 MR. DAVID MAKARCHUK: I have no reason
22 to dispute it. Sounds plausible.

23 DR. BYRON WILLIAMS: And sir, last
24 year -- and Kristen, if you can bring up from last
25 year's GRA 2019 -- oh, sorry, CAC-28, page 21.

1 Mr. Makarchuk, last year, you
2 participated in the hearing relating to the asset
3 liability strategy of Manitoba Public Insurance,
4 agreed?

5 MR. DAVID MAKARCHUK: Yeah.

6 DR. BYRON WILLIAMS: And in the course
7 of that participation, you would have reviewed the
8 evidence of -- of Mr. Valter Viola.

9 MR. DAVID MAKARCHUK: Correct. Yeah.

10 DR. BYRON WILLIAMS: And sir,
11 certainly, you are aware of the Ontario Teachers'
12 Pension Plan?

13 MR. DAVID MAKARCHUK: Yes.

14 DR. BYRON WILLIAMS: It's a large and
15 highly regarded pension plan, sir?

16 MR. DAVID MAKARCHUK: It is large,
17 yes.

18 DR. BYRON WILLIAMS: And highly
19 regarded?

20 MR. DAVID MAKARCHUK: And highly
21 regarded.

22 DR. BYRON WILLIAMS: And it dwarfs
23 Manitoba Public Insurance in size, sir?

24 MR. DAVID MAKARCHUK: It does.

25 DR. BYRON WILLIAMS: And sir, as you

1 look at this slide 21 from Mr. Viola's Exhibit 28 from
2 last year, you'll see the real rate product or real
3 return bo -- real rate product in the year 2015 was at
4 19 percent real. Do you see that, sir?

5 MR. DAVID MAKARCHUK: I see the chart
6 in the middle that says 90 percent real rate products.
7 I see a Teachers' RRB equalled 19 percent as well in
8 the top left. I have a much harder time believing
9 that than the real rate product 19 percent.

10 DR. BYRON WILLIAMS: Okay. So -- and
11 sir, you also see on the left, it started out in two-
12 o-five at -- at 11 percent.

13 MR. DAVID MAKARCHUK: Yeah, it would
14 be nice to know exactly what they defined real rate
15 products as. I suspect it's infrastructure and real
16 rate -- real es -- well, I guess it's not real estate.
17 I doubt it's Real Return Bonds.

18 DR. BYRON WILLIAMS: So sir --

19 MR. DAVID MAKARCHUK: What's implied
20 by the top left. RRBs is the acronym we've been using
21 today.

22 DR. BYRON WILLIAMS: Thank you for
23 that.

24 MR. DAVID MAKARCHUK: It might be
25 right, but I'd be -- I guess there's two (2) kinds of

1 green here. No, I don't think it's 19 percent Real
2 Return Bonds.

3 DR. BYRON WILLIAMS: You're not
4 disputing that it's real rate products? You're not
5 confident it's Real Return Bonds?

6 MR. DAVID MAKARCHUK: And I can
7 understand real rate products is very possible.

8 DR. BYRON WILLIAMS: Okay. Thank you
9 for that. Now, Mr. Makarchuk, if we can go to the
10 table on slide 12. Again, this is analysis based upon
11 a real liability benchmark, correct?

12 MR. DAVID MAKARCHUK: Correct.

13 DR. BYRON WILLIAMS: And sir, on the
14 extreme right under 'E', we see Basic 3 again. You
15 see that, sir?

16 MR. DAVID MAKARCHUK: Yeah.

17 DR. BYRON WILLIAMS: And it is
18 intended to be the same Basic 3 as on slide 8, sir?

19 MR. DAVID MAKARCHUK: Correct. Yeah.

20 DR. BYRON WILLIAMS: And just drawing
21 your attention -- nothing turns on this -- to a
22 potential typog -- typographical. With regard to
23 long-term bonds being provincial, should that read 32
24 percent, sir, rather than 9 percent?

25 MR. DAVID MAKARCHUK: To knot it up.

1 Twenty (20) -- twenty-eight (28) -- you're quite
2 likely right. Yeah, I think you're right. That --

3 DR. BYRON WILLIAMS: Again, sir,
4 nothing turned on that.

5 MR. DAVID MAKARCHUK: Okay.

6 DR. BYRON WILLIAMS: And sir, as you
7 confirm with PUB counsel, this shadow portfolio you
8 presented is labelled 'C', middle, correct?

9 MR. DAVID MAKARCHUK: Correct.

10 DR. BYRON WILLIAMS: And this Shadow
11 Portfolio 2 Basic is labelled unconstrained, correct?

12 MR. DAVID MAKARCHUK: Correct.

13 DR. BYRON WILLIAMS: And sir, does
14 that suggest that there were no constraints in terms
15 of asset class that -- classes that were permitted to
16 shift?

17 MR. DAVID MAKARCHUK: So as we
18 discussed this morning, within the set of asset
19 classes that the Corporation chose to include in the
20 asset liability study, these are the asset classes
21 that generally were attractive from an efficient
22 frontier perspective. Portfolio B was a mix with the
23 same return. 'D' was one with the same risk. 'C'
24 balanced both of those priorities.

25 DR. BYRON WILLIAMS: So let's just be

1 clear, though. In terms of -- leaving aside those
2 that might have been rejected by the MPI inves --
3 investment committee, in terms of the movement between
4 asset classes, is it your evidence that there were no
5 -- no constraints?

6 MR. DAVID MAKARCHUK: There was no --
7 yes. There was no measurable restraints. There was
8 probably some constraints that certain asset classes
9 couldn't be more than a certain amount; for example,
10 private equity couldn't have been more than, like, 10
11 percent for liquidity. But I don't think we bumped
12 into any of those, so -- so substantively, there was
13 no constraints.

14 DR. BYRON WILLIAMS: Okay. And just
15 to make sure I have your point, sir, so there were no
16 minimum or maximum allocations to these asset classes
17 that were constrained?

18 MR. DAVID MAKARCHUK: Definitely no
19 minimums. There was some minimums on MUSH. There was
20 some maximums on MUSH. There was some maximums on the
21 alternatives. The alternatives couldn't be more than
22 the equities. Eleven (11) -- So you'll see that the
23 equities were thirteen (13). The alternatives were
24 materially the same. There was no substantive
25 constraints.

1 DR. BYRON WILLIAMS: So just so I
2 understand, sir, there was both a minimum and a
3 maximum constraint in terms of MUSH, M-U-S-H, bonds,
4 correct?

5 MR. DAVID MAKARCHUK: There was a
6 minimum on MUSH; and MUSH and private debt, there was
7 a maximum on.

8 DR. BYRON WILLIAMS: Okay.

9 MR. DAVID MAKARCHUK: Of twenty-five
10 (25).

11 DR. BYRON WILLIAMS: And sir --

12 MR. DAVID MAKARCHUK: It's probably
13 liquidity maximum.

14 DR. BYRON WILLIAMS: And sir -- sir,
15 in terms of the alternatives, was it your evidence
16 that they were capped at no more than public equities?
17 Is that...?

18 MR. DAVID MAKARCHUK: That appears to
19 be -- you know, just looking at my notes here. Yes,
20 although the diversified growth must have been in the
21 fixed income bucket, because it otherwise adds up to
22 one more, but...

23 DR. BYRON WILLIAMS: Okay.

24 MR. DAVID MAKARCHUK: But materially,
25 they're similar.

1 DR. BYRON WILLIAMS: Sir, focussing
2 still on slide 12 representing Shadow Portfolio -- or,
3 portraying Shadow Portfolio 2, I want to direct your
4 attention on the left under 2017 current. And sir,
5 that's the rejected MPI portfolio, sir? You're
6 nodding your head?

7 MR. DAVID MAKARCHUK: Agreed. Yeah.

8 DR. BYRON WILLIAMS: And its expected
9 ten (10) year return is 4.2 percent, sir?

10 MR. DAVID MAKARCHUK: Yeah, I see
11 that.

12 DR. BYRON WILLIAMS: And its surplus
13 volatility is 3.8 percent, sir?

14 MR. DAVID MAKARCHUK: Correct.

15 DR. BYRON WILLIAMS: And so going over
16 to Column D, same risk, and if we follow that same
17 risk down to surplus volatility, the same risk -- it
18 has a surplus volatility of 3.8 percent as measured
19 against the real liability benchmark, sir?

20 MR. DAVID MAKARCHUK: That's right.

21 DR. BYRON WILLIAMS: So when you use
22 the term 'same risk' on this slide, you're comparing
23 it to the rejected 2017 portfolio?

24 MR. DAVID MAKARCHUK: Right. These
25 were working papers from the work we did in 2017, when

1 "same" meant same as 2017.

2 DR. BYRON WILLIAMS: Just going to the
3 right, you're not comparing it to the same risk as the
4 selected MPI portfolio?

5 MR. DAVID MAKARCHUK: Right. At the
6 time, it was -- to 2017 was what "same" meant.

7 DR. BYRON WILLIAMS: And sir, if we go
8 to Column B, being same return, and follow that down
9 to the expected ten (10) year -- ten (10) year return,
10 you'll see it's 4.2 percent?

11 MR. DAVID MAKARCHUK: Yeah.

12 DR. BYRON WILLIAMS: And the term
13 "same return" means that you are comparing it to the
14 rejected 2017 portfolio, with an expected ten (10)
15 year return at 4.2 percent?

16 MR. DAVID MAKARCHUK: That's right.

17 DR. BYRON WILLIAMS: So again, you're
18 not comparing it to the selected MPI portfolio, sir,
19 in terms of return?

20 MR. DAVID MAKARCHUK: That's right.

21

22 (BRIEF PAUSE)

23

24 DR. BYRON WILLIAMS: And sir, just if
25 we -- if we think back to Shadow Portfolio 1, you were

1 starting with the same return as the Basic selected 3,
2 but a different risk, agreed?

3 MR. DAVID MAKARCHUK: Say that one (1)
4 more time, please?

5 DR. BYRON WILLIAMS: If we went back
6 to shad -- to portfolio 1 --

7 MR. DAVID MAKARCHUK: Yeah.

8 DR. BYRON WILLIAMS: -- Shadow
9 Portfolio 1, its basis of comparison, sir, it had the
10 same expected return as the MPI selected portfolio,
11 agreed?

12 MR. DAVID MAKARCHUK: Yes.

13 DR. BYRON WILLIAMS: But a
14 significantly different expected return, correct?

15 MR. DAVID MAKARCHUK: Yes.

16 DR. BYRON WILLIAMS: Here on this
17 slide, slide 12, you're comparing the shadow
18 portfolios to the rejected 2017 in terms of your
19 starting point of analysis? Same risk, same return,
20 agreed?

21 MR. DAVID MAKARCHUK: Yes.

22

23 (BRIEF PAUSE)

24

25 DR. BYRON WILLIAMS: Turning to the

1 graph on page 13.

2

3

(BRIEF PAUSE)

4

5 DR. BYRON WILLIAMS: Again, sir, just
6 to -- to go up -- just in -- in terms of the
7 horizontal axis, just before the -- in terms of
8 surplus volatility, we see the current portfolio at
9 somewhere around 3.8 percent in terms of the rate --
10 compared to the real liability benchmarks, sir?

11 MR. DAVID MAKARCHUK: Yeah.

12 DR. BYRON WILLIAMS: And again, in
13 terms of the shadow portfolio analysis, same risk IS
14 same risk in regard to the current portfolio, agreed,
15 sir?

16 MR. DAVID MAKARCHUK: Yeah.

17 DR. BYRON WILLIAMS: And in terms of
18 the shadow market analysis, same return is same return
19 as compared to the rejected 2017 portfolio?

20 MR. DAVID MAKARCHUK: That's right.

21 DR. BYRON WILLIAMS: So sir, going
22 back to that lonely Basic 3, the MPI selected, down at
23 surplus volatility of 4.5 percent, if we wanted to
24 compare on an efficient frontier portfolio that had
25 the same surplus volatility, we would go across to

1 four point five (4.5), sir, agreed?

2 MR. DAVID MAKARCHUK: M-hm.

3 DR. BYRON WILLIAMS: And was "m-hm" a
4 yes, sir?

5 MR. DAVID MAKARCHUK: Yes, sorry.
6 Yeah.

7 DR. BYRON WILLIAMS: And then we would
8 go up, sir, until we hit the -- the efficient frontier
9 somewhere at about two point nine (2.9) excess return
10 above the liability benchmark.

11 Would that be fair, sir?

12 MR. DAVID MAKARCHUK: Yes, if you
13 included all of the contemplated asset classes here,
14 including leverage in the growth portfolio, you could
15 get to the dark blue -- purple line -- darkish line.

16 DR. BYRON WILLIAMS: And of course,
17 sir, we're -- we're eyeballing this, but if we were
18 comparing the Basic 3 at the same level of surplus
19 volatility, being four point five (4.5), to the
20 efficient frontier, we'd have a -- a gap of -- in the
21 range of 2.2 percent return?

22 MR. DAVID MAKARCHUK: Three (3) --
23 yeah.

24 DR. BYRON WILLIAMS: But sir, that's
25 not the portfolio that you compared to the MPI

1 selected?

2 MR. DAVID MAKARCHUK: Correct. We
3 chose this -- the suggested shadow portfolios based
4 off of the analytics that were done in 2017. It's an
5 extension from current. It potentially could have
6 been an extension from Basic 3, where we just
7 otherwise might have gone to the north and to the
8 west, plausibly end up in about the same place.

9 There's lots of places the shadow
10 portfolio could have landed. There is some
11 flexibility in that regard.

12 DR. BYRON WILLIAMS: But in neither
13 Shadow Portfolio 1 or Shadow Portfolio 2, sir, did you
14 start from the same level of risk as measured in
15 surplus volatility as the MPI selected portfolio?

16 MR. DAVID MAKARCHUK: Correct. We --

17 DR. BYRON WILLIAMS: You started with
18 more -- sorry, go ahead.

19 MR. DAVID MAKARCHUK: The -- we chose
20 the shadow portfolios from the starting point of 2017.

21 DR. BYRON WILLIAMS: And you chose,
22 sir, more conservative risk volatility, meaning that
23 they are -- they move to the left?

24 MR. DAVID MAKARCHUK: And the north,
25 and the west, the left -- the -- upward, yes.

1 DR. BYRON WILLIAMS: So if one were
2 wanting to conduct an apples to apples comparison,
3 sir, on this slide, the same risk as the MPI selected
4 volatility, that is not done by any of the shadow
5 portfolios you selected?

6 MR. DAVID MAKARCHUK: That's right.
7 If -- if one wanted -- if the objective was to say if
8 the real -- if the liability benchmark was real, and
9 the investment set was unconstrained as we've defined
10 it, as you've said, it would be straight to the north
11 of Basic 3.

12 If it was without leverage, it would be
13 the magenta, or light purple line. The current asset
14 class, the light blue line, was the current as defined
15 in 2017. The asset classes that MPI chose with Real
16 Return Bonds would be a line further south.

17

18 (BRIEF PAUSE)

19

20 DR. BYRON WILLIAMS: I wonder if we
21 can turn to slide 5 of this same document, investment
22 attachment A.

23

24 (BRIEF PAUSE)

25

1 DR. BYRON WILLIAMS: And sir, in terms
2 of constraints here, under the second checkmark, you
3 make reference to a diversified package of liquid
4 bonds, which diversifies return and risk sources.

5 You see that, sir?

6 MR. DAVID MAKARCHUK: Yeah.

7 DR. BYRON WILLIAMS: And here, you're
8 talking about assets, sir, not speaking of
9 liabilities?

10 MR. DAVID MAKARCHUK: Correct.

11 DR. BYRON WILLIAMS: And you would
12 agree, sir, that the degree of correlation between
13 assets contributes to the magnitude of the benefits of
14 diver -- diversification?

15 I could ask that a better way, if you'd
16 like me to, sir.

17 MR. DAVID MAKARCHUK: I think I'll
18 still give it a yes.

19 DR. BYRON WILLIAMS: Thank you. It's
20 fair to say that the benefits of diversification are
21 bigger in terms of assets when the correlations are
22 lower among assets? They're in an in -- inverse
23 relationship?

24 Would that be fair?

25 MR. DAVID MAKARCHUK: That would be

1 fair.

2

3

(BRIEF PAUSE)

4

5

DR. BYRON WILLIAMS: Mr. Makarchuk,
6 PUB Exhibit 59 was discussed earlier this morning. Do
7 you recall that conversation, sir?

8

MR. DAVID MAKARCHUK: I do.

9

10

(BRIEF PAUSE)

11

12

DR. BYRON WILLIAMS: And sir, our
13 client has all your well-made points about the early
14 nature, and the uniq -- unique circumstances of the
15 last few months. You don't need to repeat those.

16

But sir, if I looked at shadow
17 portfolio P-1 Basic, would I be correct in suggesting
18 to you, based upon slide 8 of the Attachment A, its
19 expected surplus volatility was 3.2 percent, sir?

20

MR. DAVID MAKARCHUK: Basic three
21 point two (3.2) Shadow Portfolio 1. Correct.

22

DR. BYRON WILLIAMS: And, sir, if I
23 looked, going back to Exhibit 59 to passive return on
24 the Basic portfolio, would I be correct in suggesting
25 to you that based upon the real liability benchmark,

1 its expected surplus volatility from Slide 8 was
2 4.5 percent?

3 MR. DAVID MAKARCHUK: Relative to a
4 real liability benchmark, yeah.

5 DR. BYRON WILLIAMS: Okay.

6 MR. DAVID MAKARCHUK: That was --
7 yeah. It's Basic 3. It's that portfolio --

8 DR. BYRON WILLIAMS: Okay.

9 MR. DAVID MAKARCHUK: -- in that
10 exhibit.

11 DR. BYRON WILLIAMS: And, sir, going
12 back to MPI Exhibit 59 and line number 2, if we were
13 looking at the shadow portfolio PT, Basic
14 Unconstrained, assuming a real liability benchmark,
15 the expected surplus volatility for that portfolio,
16 sir, would be 3.1 percent?

17 MR. DAVID MAKARCHUK: I believe so,
18 yeah.

19 DR. BYRON WILLIAMS: And so when we're
20 comparing lines 1, 2, and 3, we should recall that
21 lines 1 and 2 have significantly lower surplus
22 volatility as measured by the real liability benchmark
23 as compared to the selected MPI portfolio, sir?
24 Agreed?

25 MR. DAVID MAKARCHUK: Yes. And an

1 inverse relationship if it was a nominal liability
2 benchmark.

3 DR. BYRON WILLIAMS: Mr. Makarchuk, I
4 hope I didn't do too much injustice to your name.

5 MR. DAVID MAKARCHUK: No, you did not.
6 Thank you.

7 DR. BYRON WILLIAMS: And I appreciate
8 your assistance in this discussion. Thank you, sir.

9 MR. DAVID MAKARCHUK: Thank you.

10 THE CHAIRPERSON: Mr. Scarfone...?

11 MR. STEVEN SCARFONE: Thank you,
12 Madam Chair.

13

14 RE-DIRECT-EXAMINATION BY MR. STEVEN SCARFONE:

15 MR. STEVEN SCARFONE: So just a couple
16 questions, Mr. Makarchuk. I just want to maybe pull
17 you out of the abyss somewhat and ask you some basic
18 questions on the advice that your firm provided to
19 MPIC.

20 Following up on My Learned Friend's
21 questions, we'll start, I guess, right here since it's
22 on the screen before us. Mr. Williams just asked you
23 to look at this particular screen and assume that it
24 was a real liability benchmark. Do you recall that?
25 Correct?

1 MR. DAVID MAKARCHUK: Yeah.

2 MR. STEVEN SCARFONE: But, of course,
3 it's not. It's a nominal liability benchmark,
4 correct? And that's the benchmark that the
5 Corporation selected?

6 MR. DAVID MAKARCHUK: MPI selected a
7 nominal viability benchmark.

8 MR. STEVEN SCARFONE: And that we
9 heard last year, sir, was an investment decision that
10 the Corporation was entitled to make. Do you agree
11 with that?

12 MR. DAVID MAKARCHUK: It was a
13 decision made for the purpose of the asset liability
14 study.

15 MR. STEVEN SCARFONE: Yes. And they
16 could have gone one (1) of two (2) ways. We heard
17 they could have gone with a nominal liability
18 benchmark, or they could have gone with a real
19 liability benchmark.

20 MR. DAVID MAKARCHUK: Right. To the
21 extent that it was agreed to model using a liability
22 benchmarks which is not the only way to do an asset
23 liability study. But if one was going to use a
24 liability benchmark, those were the choices.

25 MR. STEVEN SCARFONE: And then if we

1 go to the Mercer presentation, please, Kristen, on
2 Slide 8, please. Oh, we are on Slide 8. Thank you.

3 And so we see that particular slide,
4 Mr. Makarchuk, and I would say that the one thing that
5 stands out, someone took the time to highlight it in
6 yellow is the analysis was based on a real liability
7 benchmark. Do you see that?

8 MR. DAVID MAKARCHUK: Yes.

9 MR. STEVEN SCARFONE: Slide 9, please.

10 And again, we see someone took the time
11 to highlight the same thing in yellow on this slide.

12 MR. DAVID MAKARCHUK: Correct.

13 MR. STEVEN SCARFONE: Slide 12,
14 please.

15 And there again, someone took the time,
16 not to highlight it in blue or grey but yellow.
17 Correct, sir?

18 MR. DAVID MAKARCHUK: Yes.

19 MR. STEVEN SCARFONE: And on Slide 13,
20 we're --

21 MR. DAVID MAKARCHUK: The same. Yeah.

22 MR. STEVEN SCARFONE: The same thing
23 there. Someone took the time to highlight it in
24 yellow. And Mr. Williams asked you about the Basic 3.
25 Do you see it there at the bottom?

1 MR. DAVID MAKARCHUK: Yeah.

2 MR. STEVEN SCARFONE: Its lonely
3 existence, as he said.

4 MR. DAVID MAKARCHUK: I see it.

5 MR. STEVEN SCARFONE: That, sir, is a
6 Basic 3 based on a nominal liability benchmark.
7 Right?

8 MR. DAVID MAKARCHUK: Correct.

9 MR. STEVEN SCARFONE: Inserted into an
10 analysis performed on a real liability benchmark.

11 MR. DAVID MAKARCHUK: Correct.

12 MR. STEVEN SCARFONE: Those are all my
13 questions on redirect.

14 THE CHAIRPERSON: Thank you. Thank
15 you very much, Mr. Makarchuk.

16 MR. DAVID MAKARCHUK: Thank you.

17

18 (PANEL STANDS DOWN)

19

20 THE CHAIRPERSON: We'll now proceed
21 with the IT panel for MPI.

22 MR. STEVEN SCARFONE: Madam Chair, can
23 we have five (5) minutes just to rearrange the
24 witnesses and get the panel members from downstairs up
25 to floor 4?

1 THE CHAIRPERSON: Definitely. Back at
2 ten (10) to 2:00, please.

3 MR. STEVEN SCARFONE: Thank you.

4

5 --- Upon recessing at 1:46 p.m.

6 --- Upon resuming at 1:52 p.m.

7

8 THE CHAIRPERSON: Good afternoon.

9 Mr. Guerra...?

10 MR. ANTHONY GUERRA: Thank you. We
11 have the members of the information technology panel,
12 and there's quite a number of people, as you can see,
13 who are both present in the front row and back rows.

14 So perhaps what we'll do to start is
15 I'll introduce the front row. We can have the
16 witnesses sworn and affirmed, and then I will briefly
17 describe the members of the back row, and then we can
18 get into the presentation.

19 THE CHAIRPERSON: Thank you.

20 MR. ANTHONY GUERRA: So to confirm,
21 the front row's comprised of four (4) individuals,
22 first being Mr. Brad Bunko, who is the vice president
23 of information and technology, business
24 transformation, and the chief information officer.

25 Is that correct, Mr. Bunko?

1 MR. BRAD BUNKO: Correct.

2 MR. ANTHONY GUERRA: I also have
3 Mr. John Remillard who is the program director of
4 program NOVA transformation office. Is that correct?

5 MR. JOHN REMILLARD: Correct.

6 MR. ANTHONY GUERRA: I also have
7 Mr. Lawrence Lazarko who is the director of
8 information technology, correct?

9 MR. LAWRENCE LAZARKO: Correct.

10 MR. ANTHONY GUERRA: And Mr. Gary
11 Dessler who is the corporate systems architect
12 technical architecture, correct?

13 MR. GARY DESSLER: Yes, that's
14 correct.

15 MR. ANTHONY GUERRA: May I ask that
16 the witnesses be sworn or affirmed.

17

18 MPI PANEL NO. 7:

19 JOHN REMILLARD, SWORN

20 GARY DESSLER, AFFIRMED

21 BRAD BUNKO, SWORN

22 LAWRENCE LAZARKO, SWORN

23

24 EXAMINATION-IN-CHIEF BY MR. ANTHONY GUERRA:

25 MR. ANTHONY GUERRA: Thank you. And

1 just to confirm, in the back row, we have Mr. Joe
2 Riel, who is the senior value management specialist;
3 Ken Harkness, who is the director of organizational
4 change management; Cynthia Campbell, who is our
5 corporate controller, as you know; Colin McDonald, who
6 is the corporate information security officer; Rafiq
7 Valliani, who is our information security officer;
8 Julious Nelson, who is our business architect of
9 program NOVA transformation office; and Jonathan
10 Yakel, who is the director of enterprise system
11 support.

12 Did I miss anybody? Okay, with that,
13 what I'd like to do is get into the presentation
14 itself. Now, I understand that the members of the
15 front row, along with support from members of the back
16 row, were the ones who prepared the presentation that
17 is about to be given today. Is that correct?

18 MR. BRAD BUNKO: Yes.

19 MR. ANTHONY GUERRA: Okay. And to
20 confirm, each of you will be adopting the evidence
21 presented in this presentation as your evidence before
22 the panel today, correct?

23 MR. BRAD BUNKO: Yes.

24 MR. ANTHONY GUERRA: Okay. With that,
25 perhaps what I'd like to do is if you can just

1 introduce yourselves. Give -- give a little bit of
2 background as well as your experience with -- with MPI
3 and information technology in particular, please. We
4 can start with Mr. Bunko, please.

5 MR. BRAD BUNKO: Yes. I've been with
6 MPI for a little over ten (10) years. I've been in
7 the role of VP of information technology and business
8 transformation for just over five (5) years. In -- as
9 the title reads, I oversee all things technology
10 through information technology and initiatives that
11 are incorporated or implemented into the Corporation.

12 MR. GARY DESSLER: Hi, I'm Gary
13 Dessler. I'm a corporate systems architect here for
14 MPI. I've been an employee with MPI since February
15 2016. Prior to that, I was a consultant with MPI, and
16 -- and -- since 2010.

17 My role is looking after the
18 application architecture, the data architecture for
19 the Corporation. I'm here today to answer any
20 questions about the legacy modernization assessment
21 that ran for last year and any resulting questions on
22 the NOVA business case.

23 MR. JOHN REMILLARD: John Remillard,
24 the program director for Project NOVA. I've been with
25 Manitoba Public Insurance now for about twenty (20)

1 years, and primarily in IT and business-lead capacity,
2 leading either our strate -- strategic initiatives
3 from a business perspective or from a project
4 leadership perspective over the course of the years,
5 and as of early September, was appointed the program
6 director for Project NOVA.

7 As far as the application, I assisted
8 on the IT strategy as well as the value management
9 chapter. So I'll be participating in those elements
10 and then any questions regarding Project NOVA going
11 forward beyond the assessment. Thank you.

12 MR. LAWRENCE LAZARKO: Good afternoon.
13 Good afternoon. My name is Lawrence Lazarko. I'm the
14 director of IT at Manitoba Public Insurance. I've
15 been with the Corporation for nine (9) years, in this
16 role for five (5) years.

17 My areas of expertise include IT
18 infrastructure, so this is personal computing;
19 enterprise computing; IT service management, which is
20 really the delivery of IT services; IT vendor
21 management; data and analytics; and delivery of
22 projects such as the technology risk management
23 program.

24 My evidence today will be discussing IT
25 benchmarking, specifically Gardturn (phonetic)

1 scorecards; IT operational expenses, including
2 external labour; and technology risk management
3 program. Thank you.

4 MR. ANTHONY GUERRA: Just before we
5 begin, I just want to make sure everyone is aware and
6 is cautious of the use of acronyms throughout the --
7 the presentation. So if you are using an acronym --
8 if you catch yourself using an acronym, make sure you
9 just explain what it is for the benefit of the panel
10 members and the Interveners and PUB counsel as well.
11 Thank you.

12 MR. BRAD BUNKO: Once again, good
13 afternoon, Madam Chair and members of the Board. The
14 three (3) areas that I will be covering in my
15 presentation today are information technology,
16 including the IT strategies, staffing, scorecard, and
17 agile delivery; value management, which will include
18 the phases of alu -- of value management, maturity,
19 and capital initiatives; and finally, Project NOVA,
20 Why do we need a Project NOVA; scope of the program,
21 how we will govern the program; and a delivery update.

22 This marks the second year that we have
23 submitted a formal IT strategy as part of the general
24 rate app. Our IT strategy focusses on the current
25 fiscal year, but where possible, we'll define

1 technical direction for several years into the future.

2 But it's not just about technology.

3 The fundamental reason to have an IT strategy is to
4 show the link between the corporate business plan,
5 business capabilities required to meet that business
6 plan, and IT capabilities required to enable business
7 capabilities.

8 In addition to MPI's corporate
9 objectives, the IT strategy identifies several major
10 influencers that have a significant impact on many
11 business and IT capabilities proposed in the IT
12 strategy. They include information security, data and
13 analytics, enterprise architecture, agile delivery,
14 and Project NOVA, formerly referred to as legacy
15 system modernization.

16 Over the past couple years, we have
17 made a fundamental shift in how technology is
18 implemented at MPI. Many of these changes were
19 implemented as a result of lessons learned from the
20 physical damage re-engineering project.

21 We are now adopting proven mainstream
22 technologies and not creating new and unproven
23 technologies. We identify risk prior to project
24 initiation and incorporate them into the project
25 decisions. This critical review is a part of our

1 business case process.

2 Our project sponsor is the operational
3 business champion, who has shared project
4 accountability. Business sponsor ownership improves
5 decisions and outcomes and has a long-term
6 accountability for value realization.

7 Next, we align MPI's process to
8 industry best practices, which means making software
9 customization an exception, not the norm. We've
10 adopted the value management discipline -- which
11 documents business justification, risks, benefits, and
12 ongoing costs -- and tracks value real -- realization
13 well beyond the completion of the project.

14 And finally, we ensure IT capabilities
15 are created to support business capabilities in
16 pursuit of meeting business objectives.

17 IT Staffing. In 2016, we looked
18 closely at our external labour pool to identify what
19 role consultants were filling that are needed for at
20 least the next five (5) years. Roles that met that
21 criteria were converted into employees. This gave us
22 reduced costs and better in-house intellectual
23 capital.

24 The conversion strategy has been
25 effective, and we will exceed the original savings

1 forecasted. With twenty-seven (27) roles identified
2 and converted at the time of our filing, we will save
3 between 3 and 3 and a half million dollars annually.

4 We al -- will also improve our access
5 to external consultants by moving away from a two (2)
6 vendor source and entering into agreements with over
7 thirty (30) consultant providers. This will again
8 reduce our costs and improve our access to the talent
9 that we need.

10 The mid- and long-term resource plan
11 will be greatly influenced by Project NOVA. This need
12 will become clearer over the next year.

13 IT Scorecard. The results of our IT
14 benchmarking have once again be -- been provided as
15 part of the 2020 general rate app. MPI uses the
16 scorecard recommendations to improve existing
17 capabilities and investigate new capabilities

18 This year's results are as follows.
19 MPI's IT spend, as a percentage of operating expenses,
20 came in at 5.37 percent, which is slightly better than
21 the peer average of 5.42 percent.

22 The second major measurement within
23 that benchmark is process maturity. MPI's IT process
24 maturity is three point one (3.1), again, better than
25 the peer average of two point nine (2.9). Now, it's

1 good to have good -- to have costs that align with
2 your peers, and it's even better to have a higher
3 maturity at a lower cost than your peers.

4 We are currently in the process of
5 tendering for our benchmarking services to ensure this
6 service is cost competitive.

7 Agile Delivery. How capabilities are
8 delivered can have a significant impact on the quality
9 of those capabilities. To improve our delivery, we
10 are adopting an agile methodology.

11 There are many reasons why we are
12 pursuing this delivery method. Agile is more
13 inclusive with business stakeholders. Business value
14 is realized sooner through ongoing prioritization and
15 short delivery cycles. Since requirements evolve
16 through the life of the prod -- product, there is less
17 chanc -- change and rework. Agile is an industry best
18 practice and is required to work effectively with
19 software vendors and system integrators on Project
20 NOVA.

21 Our progress to date has been through
22 agile pilots. We are now expanding into our core
23 operational support teams. Our plan is to now define
24 an agile fu -- future state, which includes the needs
25 for Project NOVA and to then create a roadmap to get

1 there.

2 This slide provides a clear picture of
3 the process that value management -- that the value
4 management department oversees. It begins with a
5 formal cost/benefit analysis, detailed assumptions,
6 and measurable objectives and benefits. The objective
7 of the business case development is to provide
8 relevant information to assist in decision making.

9 Once the initial business case is
10 approved, any changes to scope, cost, or benefits are
11 reassessed against the original business case. Cost-
12 benefit evaluation validation is performed at the
13 completion of the project and at points after
14 implementation to track against expectations.

15 Our value mana -- management maturity
16 has -- has gone up significantly over the last few
17 years. This slide just indicates some activities that
18 we've had over the last twelve (12) months. For
19 example, we've had a workshop at our last corporate
20 managers meeting so that all managers understand
21 business case requirements. Last year, we went
22 through a vetting of newly submitted business cases
23 for candidate initiatives. We will do this again this
24 year.

25 Value management has played an integral

1 role in the Project NOVA business case and financial
2 model and will continue to do so for several years to
3 come. The value management department has also been
4 busily tracking costs and benefits of in-flight and
5 post-implementation projects.

6 This is a listing of our capital
7 initiatives. Business cases have been created for
8 all, and the value management department has played an
9 active role. Several of these initiatives are
10 scheduled to complete this year. They include high
11 school driver ed, customer self-service, and credit
12 card strategy.

13 Our objective over the next three (3)
14 to four (4) years is to reduce the number of non-NOVA
15 initiatives. We only have so much capacity, and we
16 want to ensure that NOVA is getting the attention and
17 resources that it needs.

18 Two (2) projects that have started this
19 year are information security, which is a three (3)
20 year program to increase our security maturity; and
21 the total loss strategy, which is a software service
22 that gives us a more accurate vehicle valuation when
23 dealing with total loss customers.

24

25

(BRIEF PAUSE)

1 MR. BRAD BUNKO: Project NOVA. As Ben
2 mentioned in his opening presentation, our digital
3 optimization is about more than upgrading
4 technologies. It will impact our customers and many
5 processes across the Organization. Hence, the re-
6 branding to Project NOVA.

7 There are many reasons for MPI to
8 embark upon Project NOVA, and here are the top five
9 (1).

10 First, we have technology risk. Our
11 legacy systems are between twenty (20) and forty (40)
12 years old, and were developed in-house on what is now
13 very old technology. It is becoming increasingly
14 difficult to find vendors who support this technology,
15 and difficult to find resources that are trained on
16 this technology. They are not teaching it in schools
17 anymore.

18 Next, we have information security.
19 While we have managed sensitive personal information
20 for a long time, the risk to security breaches
21 continues to rise, and cyber-criminals become more
22 sophisticated. New modern systems have security
23 controls architected into their design.

24 Customer cel -- self-service. Our
25 legacy systems were not designed for online

1 capabilities. We tried to modernize our systems. We
2 need to modernize our systems to meet the expectations
3 of our customers. Our one (1) attempt to do so with
4 our existing systems was very expensive, and very
5 timely. We certainly came to the realization that we
6 needed the new systems in order to be able to do this.

7 Another main reason for Project NOVA is
8 future business agility, which is about being able to
9 make product changes in a timely manner. Today, some
10 of our legislative and regulatory changes take far too
11 long, and cost far too much because of the
12 inflexibility of our current systems.

13 And finally, we have cost savings and
14 efficiencies. It is expensive to support aging
15 technology. New processes provide the opportunity for
16 efficiencies, and modern technologies require less
17 technical support.

18

19 (BRIEF PAUSE)

20

21 MR. BRAD BUNKO: On the screen, you
22 can see the scope of systems being replaced by Project
23 NOVA. It may include personal and commercial
24 insurance, driver and vehicle administration, and
25 finally, physical damage claims administration. These

1 are the majority of our core business systems.

2

3

(BRIEF PAUSE)

4

5 MR. BRAD BUNKO: I'd like to talk a
6 little bit about the governance structure that we have
7 for Project NOVA. The board of directors has overall
8 accountability, but it is the technology committee of
9 the board that will have more frequent oversight of
10 the Program.

11 Reporting to the technology is --
12 committee is the CEO, and reporting to the CEO is a
13 new role created for Project NOVA. It's called the
14 chief transformation officer.

15 The chief transformation officer is a
16 full-time, dedicated, executive-level sponsor
17 responsible for -- to represent the business vision of
18 this Program and to streamline decision making. The
19 role also has a dotted line, as you can see, to the
20 technology committee of the board.

21 The chief transformation officer is the
22 face and champion of this Program, both internally and
23 externally. They have overall accountability for
24 Program delivery and budget, and consults with the
25 Executive Steering Committee, of which all other

1 executives are a member of.

2 The Program director reports to the
3 chief transformation officer, and is enabled to focus
4 entirely on Program delivery. This individual is the
5 day-to-day leader of Program execution. They manage
6 key Program resources, work closely with the Program
7 advisor to support the chief transformation officer,
8 and they chair the Program Steering Committee.

9 The Program Steering Committee is
10 comprised of a Program advisor, the operational
11 business champions, organizational change management,
12 and the Program manager.

13 On the Working Group, we have
14 representation from finance -- and here's where some
15 acr -- acronyms that will -- I'll spell them out for
16 you. Finance, enterprise risk management, vendor
17 management, information technology, enterprise system
18 support, communications, talent and organizational
19 development, and finally, the information security
20 office.

21 Not shown on this org. chart is the
22 governance vendor. Now, this is an external third
23 party that will report to the technology committee on
24 a regular basis, and they will have oversight into the
25 various workings that go on within the program.

1 (BRIEF PAUSE)

2

3 MR. BRAD BUNKO: We are currently nine
4 (9) months into a four (4) year journey. The majority
5 of the work has been in the selection of software
6 vendors. This will continue for the next several
7 months.

8 The most significant software
9 selections will be for:

10 First, a property and casualty
11 insurance suite.

12 Second, driver and vehicle licensing
13 and administration software.

14 And third, a high productivity
15 platform.

16 Also required our vendors to provide
17 system integration services.

18 And finally, I would like to talk about
19 a component of the NOVA resourcing strategy. So as to
20 not increase our dependency on external consultants,
21 which he -- we have been in the past, we have
22 incorporated an internal first approach to staffing
23 Project NOVA. This will ensure the appropriate
24 knowledge will be transferred to staff, with a long-
25 term goal of self-sufficiency.

1 (BRIEF PAUSE)

2

3 MR. BRAD BUNKO: So in summary, we
4 have provided an updated IT strategy that is aligned
5 with our corporate mission, vision, and business plan.
6 Our IT scorecard shows the performance on IT is
7 comparable to our peers. Our external labour strategy
8 continues to find savings and efficiencies.

9 The IT strategy identifies how we now
10 implement technology changes, and our lessons learned
11 from past mistakes. Our value management process is
12 operational, and continues to provide an industry
13 standard approach and results.

14 And finally, the NOVA Program is
15 underway. We have begun our journey to digital
16 optimization. Thank you.

17 MR. ANTHONY GUERRA: Thank you, Mr.
18 Bunko. A few -- few further questions to elaborate on
19 some of the evidence you've already given today.

20 Mr. Schubert, if we can pull up slide
21 number 8 from the presentation.

22

23 (BRIEF PAUSE)

24

25 MR. ANTHONY GUERRA: My apologies.

1 (BRIEF PAUSE)

2

3 MR. ANTHONY GUERRA: So slide 8 is
4 about the agile delivery. And -- and perhaps members
5 of the -- the panel can elaborate on what agile means
6 from a practical perspective, maybe walk through how
7 it's already been implemented to date using an
8 example, so that the Board and Interveners get a
9 better example or better understanding of what agile
10 actually means for MPI, please.

11 MR. BRAD BUNKO: Sure. I can do that.
12 So what we're very used to in our Organization is
13 something that's called waterfall delivery. And in
14 waterfall delivery, it is extremely important that you
15 build all of your requirements up front. You have a
16 requirements phase, and all of those requirements are
17 built before any development happens. Essentially,
18 you're trying to solve every potential aspect of what
19 you want for that project at the very beginning.

20 You then go into development for it,
21 and you're very constrained with making changes at
22 that point, even if you realize that maybe something
23 needs an improvement. It's typically frowned upon
24 to -- to expand the scope or make changes at that
25 point, although you can with the right justification.

1 Then you go on to the testing phase,
2 and then you will go on to an implementation phase.
3 It is only at that implementation phase that the
4 user -- the person who knows the most about what
5 they're looking for in the way of software -- gets to
6 look at the software and see what its capabilities are
7 like. That's waterfall.

8 Agile is about breaking that down --
9 that objective of what you're trying to achieve from a
10 feature set -- into smaller components -- much smaller
11 components so that you can embark upon a project
12 knowing only the high-level requirements. From the
13 highest level, I know I wanted to do this.

14 So what you do in agile is you go
15 through that cycle of creating the functionality in
16 those initial requirements, and you learn from what
17 you've created. You get to see the -- the software
18 that's being developed.

19 Is it meeting your needs? Is it
20 addressing your concerns? Are the requirements that
21 you had thought that you would need actually the ones
22 that you want now going forward, based upon the
23 information that you've seen from this small subset of
24 the large feature set?

25 Based upon that information, you now go

1 into the next cycle, and do the same thing over again.
2 So instead of trying to create everything -- every
3 piece of knowledge at the very beginning, it is a much
4 more iterative process. They call it "agile" because
5 you are moving constantly. There's flexibility in it.

6 At the end of the day if a customer --
7 say the person that runs the software -- gets to look
8 at that software six (6) times during the development
9 cycle, will that product be any better than the one
10 that had to anticipate it all in their head at the
11 very beginning and then only see it once at the very
12 end? I don't think so.

13 So that's the benefit to agile
14 delivery. It's the ongoing iterative process. It's
15 the constant business interaction that makes it strong
16 and becoming an industry standard.

17 MR. ANTHONY GUERRA: And is there an
18 example that we can point to where agile has been
19 implemented or used by MPI and what the results were
20 for MPI?

21 MR. BRAD BUNKO: Sure. There is a
22 couple of our pilot projects. We've used agile
23 methodology to remove some of the customization from
24 our bodily injury software system. Another one is --
25 our online website was created in an agile

1 methodology.

2 MR. ANTHONY GUERRA: And to confirm,
3 is it MPI's position that agile should and would be
4 used in implementing Project NOVA?

5 MR. BRAD BUNKO: The interactions that
6 we've had with software vendors and various system
7 integrators have certainly given us the indication
8 that almost all of them work in an agile methodology.

9 Now when -- when you talk about agile,
10 it means a lot of things to a lot of different people.
11 But the underlying fundamental agile where there's
12 fixed periods of time where you're accomplishing so
13 many features in that -- in each cycle, the
14 interactions with customers, that is a common
15 underlying theme with the system integrators and the
16 software vendors that we have been dealing with.

17 MR. ANTHONY GUERRA: Thank you. On
18 the issue of the IT scorecard, I understand that this
19 year again, MPI has presented an IT scorecard
20 presented by Gartner. Is it MPI's intention to
21 continue to present IT scorecards to the PUB each
22 year?

23 MR. BRAD BUNKO: Yes, it is.

24 MR. ANTHONY GUERRA: And is it MPI's
25 intention that those scorecards will be -- will

1 continue to be provided by Gartner?

2 MR. BRAD BUNKO: We are tendering for
3 the service, and if -- potentially if Gartner wins
4 that service again, then it would be Gartner. But
5 there are other people in the market, and we feel that
6 it is our responsibility to ensure we are getting a
7 cost-effective service.

8 MR. ANTHONY GUERRA: So in other words
9 if I may paraphrase, this is MPI's attempt to ensure
10 that it continues to receive value for the services it
11 requests when preparing an IT scorecard.

12 MR. BRAD BUNKO: We've -- yes. We've
13 always seen value, and our expectations is the -- the
14 value would remain in -- in future scorecards. It's
15 just a question of how much we have to pay to receive
16 that value.

17 MR. ANTHONY GUERRA: Thank you. With
18 respect to governance on Project NOVA, Ms. Schubert,
19 could you pull up slide number 16, please.

20 Now, my understanding is that this
21 slide outlines the project governance structure for
22 Project NOVA. There was mention of a independent
23 entity. Am I fair to say that that person is -- or
24 persons is not reflected on this -- on this slide?

25 MR. JOHN REMILLARD: That is correct.

1 It wasn't an intentional omission. I think the -- the
2 rationale was that this is the day-to-day direct
3 executional format for the -- for the project, meaning
4 how the project is going to execute day to day from a
5 governance perspective.

6 With respect to the governance vendor
7 that has been retained, we're just in the final
8 negotiations with that vendor and that they are
9 looking to come onboard at the end of this month.

10 Their role is going to be, in essence,
11 assessing our project readiness, how we're approaching
12 the project overall from a project management office,
13 managing risk, assessment of risk, and the associated
14 controls.

15 And what it is, is in essence a lens
16 directly into the project for our technology committee
17 to ensure that, in essence, a different view of what's
18 actually happening on the -- on the project from the
19 day-to-day view.

20 MR. ANTHONY GUERRA: What is the
21 specific title of this independent advisor?

22 MR. JOHN REMILLARD: Program
23 governance vendor.

24 MR. ANTHONY GUERRA: Okay. And so you
25 said that the -- that entity has been retained as of

1 this month?

2 MR. JOHN REMILLARD: That is correct.
3 Just -- we've been allowed to finalize contract
4 negotiations. I -- I just don't want to announce who
5 it is until that has been completed.

6 MR. ANTHONY GUERRA: Fair enough. And
7 when do we expect that that person will take over the
8 role?

9 MR. JOHN REMILLARD: It's actually a
10 group of five (5) consultants from this firm, and they
11 will be onsite as early as October 28th. And so we
12 are actually looking to finalize the contract and sign
13 it as of this week.

14 MR. ANTHONY GUERRA: And do we expect
15 that in the next application year that there will be
16 information provided by the independent reviewer for
17 the benefit of the PUB and the members of the
18 Intervenors?

19 MR. JOHN REMILLARD: Sure. On that
20 note, the governance vendor's going to come in. Their
21 initial assignment is to complete what's referred to
22 as an eight (8) week deep dive assessment of the
23 project.

24 With that, they will provide an initial
25 report to -- to our executive as well as the chief

1 transformation officer but an unfiltered lens to that
2 report to the technology committee.

3 Thereafter, it'll be a monthly
4 assessment. So they'll come in for a week per month
5 for -- for basically a three (3) year period during
6 the course of the Project NOVA execution, again
7 assessing the project as to how it's doing from a
8 health risk management perspective, and again
9 providing that report to our technology committee so
10 that they can ensure that they're making informed
11 decisions regarding the program going forward.

12 MR. ANTHONY GUERRA: Thank you. I
13 have no further questions.

14 THE CHAIRPERSON: Thank you,
15 Mr. Guerra.

16 Ms. McCandless...?

17

18 CROSS-EXAMINATION BY MS. KATHLEEN MCCANDLESS:

19 MS. KATHLEEN MCCANDLESS: Thank
20 you, Madam Chair. And for members of the panel, I am
21 counsel to the Board. I do have some questions for
22 you this afternoon.

23 Just a few matters of housekeeping
24 before we begin. So I will not necessarily be
25 directing my questions to a particular member of the

1 panel. Whomever is best suited to answer the question
2 may feel free to do so.

3 The other issue is that in the area of
4 IT, we do have a significant amount of commercially
5 sensitive information, and I'm quite mindful of that
6 in asking my questions. So with respect to the
7 questioning this afternoon, my questions will be with
8 respect to information or documents that's been
9 provided on the public record.

10 If in the course of providing an answer
11 you're required to provide commercially sensitive
12 information, I would just ask that you just not
13 provide that information at this time and indicate
14 that it would be commercially sensitive. Tomorrow
15 morning, we will be going in-camera to deal with CSI,
16 and so we'll be splitting it that way. Okay. Thank
17 you.

18 So first, I'm going to ask some
19 questions about the Project NOVA budget. And when I
20 refer to Project NOVA, I think it's all understood
21 that that's the former Legacy Systems Modernization
22 project, and to the extent that we have information on
23 the record that's referred that way or LSM, we're now
24 referring to it as Project NOVA, yes?

25 MR. GARY DESSLER: Yes, that's

1 correct.

2 MS. KATHLEEN MCCANDLESS: And so if we
3 could go to PUB-MPI-1-88.

4 And at question B here, the Corporation
5 was asked to provide a rationale and supporting
6 documentation used to generate the projected budget
7 for Project NOVA of \$106.8 million? Yes?

8 MR. GARY DESSLER: Yes, that's
9 correct.

10 MS. KATHLEEN MCCANDLESS: And if we go
11 to Figure 1 on the next page, we have here the
12 Project NOVA one (1) time capital costs? Yes?

13 MR. GARY DESSLER: Yes, that's
14 correct.

15 MS. KATHLEEN MCCANDLESS: And does
16 this figure contain all aspects of Project NOVA?

17 MR. GARY DESSLER: For one (1) time
18 costs? Correct.

19 MS. KATHLEEN MCCANDLESS: Yes. And
20 there's a 25 percent contingency that's been applied
21 to the overall budget, and we see that at line 25?

22 MR. GARY DESSLER: Yes. Yes.
23 \$21 million.

24 MS. KATHLEEN MCCANDLESS: At line 7,
25 we see that \$36.3 million relates to insurance

1 operations, and that would include both Basic and
2 Extension operations?

3 MR. GARY DESSLER: Yes. And it also
4 include the SRE insurance as well.

5 MS. KATHLEEN MCCANDLESS: At line 13,
6 we see 27 -- or \$24.7 million relates to driver
7 vehicle administration?

8 MR. GARY DESSLER: Correct.

9 MS. KATHLEEN MCCANDLESS: Could you
10 please explain what the major components of the DVA or
11 driver vehicle administration portion of the project
12 relate to?

13 MR. GARY DESSLER: Sure. That portion
14 of our technology is all around our driver licence
15 management. So the many management solutions that we
16 have, the driver improvement and control, driver
17 fitness. It would also include the components that
18 law enforcement would use in order to look up records.
19 It's truly about administrating the -- the driver
20 licence and also the vehicle information.

21 So in other jurisdictions, there's
22 really a separation for -- and we've kind of bundled
23 that under this driver and vehicle administration
24 piece. So it includes vehicle registrations for light
25 vehicles and the driver licence.

1 MS. KATHLEEN MCCANDLESS: And if we
2 add the 25 percent contingency, according to my math
3 the portion of this project -- so the DVA portion --
4 would be \$30.9 million of the \$106.8 million of the
5 cost of the project, subject to check?

6 MR. GARY DESSLER: Yes. Subject to
7 check. We didn't split it out that way but...

8 MS. KATHLEEN MCCANDLESS: We see at
9 line 26 of the total program budget including
10 contingency is the 106.8 million, yes?

11 MR. GARY DESSLER: That's correct.

12 MS. KATHLEEN MCCANDLESS: And so with
13 respect to the driver vehicle administration portion
14 then including contingency, that would be -- again
15 according to my math -- about 29 percent of the total
16 project costs?

17 MR. GARY DESSLER: Subject to
18 check, yes.

19 MS. KATHLEEN MCCANDLESS: Then could
20 we please go to CAC-MPI-1-55.

21 And in the preamble here, there's a
22 reference again to the Drivers and Vehicles Act
23 capital expenditures being estimated at \$36.6 million,
24 yes?

25 MR. GARY DESSLER: Yes.

1 MS. KATHLEEN MCCANDLESS: What
2 components of that amount are included in the detail
3 provided in the figure that we just looked at?

4

5 (BRIEF PAUSE)

6

7 MR. GARY DESSLER: Sorry. I just --
8 can you go back and rephrase that question?

9 MS. KATHLEEN MCCANDLESS: Sure. So we
10 saw in the preamble that I just showed you in that
11 Information Request \$36.6 million. So the question
12 is: What components of that \$36.6 million is included
13 in the detail that's been provided at Figure 1?

14

15 (BRIEF PAUSE)

16

17 MR. GARY DESSLER: Yes. If you go
18 back to the -- the table in one eighty-eight (188),
19 there's a -- a section called "common services." The
20 total for thirty-six (36) includes a portion of that
21 that's been allocated to the DVA.

22 So that's where the difference is where
23 you see the difference between your twenty-four (24)
24 plus the 25 percent contingency plus what we had
25 documented as the 36 million.

1 Really what we've tried to do is, you
2 know, divide our one hundred and six point eight
3 (106.8) into the -- the two (2) categories: the DVA
4 portion -- the driver and vehicle administration
5 portion -- and our insurance portion.

6 So the common services are really there
7 to support both of those -- that part of the business
8 capability model.

9 MS. KATHLEEN MCCANDLESS: And so then
10 on to that \$36.6 million that there would be the
11 25 percent contingency added to that?

12 MR. GARY DESSLER: Yes.

13 MS. KATHLEEN MCCANDLESS: Okay.

14 MR. GARY DESSLER: Yes.

15 MS. KATHLEEN MCCANDLESS: And if we
16 jump back to the response to CAC-MPI-1-55 at page 2 --
17 the response at C with respect to the costs for the
18 driver vehicle administration aspect of the project --
19 we see that MPI is currently in discussions with the
20 province on how to fund this portion of the project?

21 MR. GARY DESSLER: That's correct.

22 MS. KATHLEEN MCCANDLESS: And
23 currently, the Corporation notes here that these are
24 not Basic costs and do not form part of the rate
25 application, correct?

1 MR. GARY DESSLER: Correct.

2 MS. KATHLEEN MCCANDLESS: What
3 assumptions, if any, has the Corporation made around
4 the funding of this aspect of the project?

5

6 (BRIEF PAUSE)

7

8 MR. GARY DESSLER: So we're continuing
9 to discuss the funding with the government, but we
10 haven't made any assumptions to date that we will
11 receive the funding for this business case.

12 MS. KATHLEEN MCCANDLESS: So are you
13 able to say today whether it has any impact on the
14 forecast for Extension?

15 MR. GARY DESSLER: We expect the same
16 technology is used for Commercial, Extension, and
17 Basic, and we haven't really divvied up the costs
18 according to each of those because it's the same --
19 it's the same software. Right? We're not bringing in
20 different technology to support Extension or a
21 different technology to support Commercial. We have
22 one (1) insurance package that will be used for all
23 the different lines of business that we have.

24 And so it -- it's very, very difficult
25 to separate it by a specific usage. So it's kind of

1 all -- it's bundled together right now.

2 MS. KATHLEEN MCCANDLESS: And the
3 budget that we reviewed at MPI-1-88, that's
4 preliminary the -- and the capital budget for
5 Project NOVA has not yet been finalized? Is that
6 accurate?

7 MR. GARY DESSLER: This is the -- what
8 we've put into our rate application, and this is the
9 budget that we've used for Board approval.

10 We have not yet received final costing
11 form the different product vendors. So there could be
12 a variation. And if that happens, we'll re-evaluate
13 with value management as to any impacts to our budget.

14 MS. KATHLEEN MCCANDLESS: Thank you.
15 And now in Mr. Bunko's presentation, he touched on
16 the -- bringing in-house consultants on the IT side?

17 MR. GARY DESSLER: Yes. Correct.

18 MS. KATHLEEN MCCANDLESS: And so
19 there's a -- there was a target to bring twenty-seven
20 (27) in house by '19/'20. Right?

21 MR. GARY DESSLER: Yes, that's
22 correct. That was the consultant conversions.

23 MS. KATHLEEN MCCANDLESS: Right. And
24 if we could go to PUB-MPI-1-72.

25 And at this Information Request, the

1 Corporation was asked about its opportunities to
2 convert external consultants to employees, yes?

3 MR. LAWRENCE LAZARKO: Yes.

4 MS. KATHLEEN MCCANDLESS: And we see
5 the response at A that since the Corporation filed its
6 2020 rate application, it had converted two (2)
7 consultants to employees, and it's evaluating
8 additional conversion opportunities beyond the
9 external original labour strategy, yes?

10 MR. LAWRENCE LAZARKO: There's an
11 error in this.

12 MS. KATHLEEN MCCANDLESS: Okay.

13 MR. LAWRENCE LAZARKO: So we've
14 converted twenty-seven (27) as Mr. Bunko identified in
15 his earlier testimony. At the time of filing, we
16 believed that we had two (2) additional conversions
17 completed. We had offers made. We had one (1)
18 accept.

19 Upon further evaluation, one (1) of the
20 two (2) was brought on to MPI, but it did not fit the
21 criteria for a consultant conversion. Another
22 employee had left. They filled an existing vacancy,
23 so they didn't qualify.

24 There on, we issued an offer that we
25 were fully expecting to be accepted. The individual

1 subsequently declined. So we are at twenty-seven (27)
2 as Mr. Bunko shared. However, we are working on two
3 (2) additional opportunities within budget to get to
4 the twenty-nine (29).

5 MS. KATHLEEN MCCANDLESS: Okay. Thank
6 you. If we got to page 3 Figure 1, now I understand
7 that this figure summarizes the full-time equivalent
8 adjustments and consultant conversions that have
9 occurred in the IT and business transformation
10 divisions for the period from 2013/'14 to 2021/'22?

11 MR. LAWRENCE LAZARKO: Correct.

12 MS. KATHLEEN MCCANDLESS: And that's
13 updated to reflect all identified conversion
14 opportunities as at August 8, 2019?

15 MR. LAWRENCE LAZARKO: For the IT BT
16 division. There is one (1) outside the division that
17 isn't reflected here, so that's how that would add up
18 to twenty-nine (29).

19 MS. KATHLEEN MCCANDLESS: So if we
20 look to line 7 on Figure 1, we see that the number of
21 consultants drops from 2013/14 actual from one hundred
22 and twenty (120) through to 2019/20 budget at -- to
23 sixty-nine (69), yes?

24 MR. LAWRENCE LAZARKO: Yes.

25 MS. KATHLEEN MCCANDLESS: Can you

1 elaborate on the sixty-nine (69) consistent consultant
2 levels after 2019/20, given the past consistent
3 decline in the level of consultants and the
4 commitments that MPI has made to continue to reduce
5 consultant levels?

6 MR. LAWRENCE LAZARKO: Yes. One
7 moment.

8

9 (BRIEF PAUSE)

10

11 MR. LAWRENCE LAZARKO: As we assured
12 in the IT chapter and some of the IRs, the estimates
13 we provided are our best estimates at the time. We've
14 indicated that external labour may rise or fall
15 depending on the needs of the projects. We haven't
16 fully defined exactly what those project needs are for
17 the future years, so we thought best to be consistent
18 with the numbers shared April 2019.

19 MS. KATHLEEN MCCANDLESS: So are you
20 able to say directionally today what the Corporation
21 intends to do in terms of management of consultants
22 either upwards or downwards?

23 MR. BRAD BUNKO: We may find a
24 combination of both more consultant conversions and a
25 need for more external consultants that may be -- that

1 may have specific talents required for Project NOVA,
2 so netting at sixty-nine (69) may be -- may be an
3 optimistic way a look -- of looking at it. Given the
4 size of Project NOVA, I would anticipate that our
5 external consultant number would -- would increase for
6 a period of time.

7 MS. KATHLEEN MCCANDLESS: Thank you.
8 Kristen, could we please go to PUB-MPI-1-79, and if we
9 scroll to page 2.

10 Here the Corporation explains its
11 implementation of knowledge transfer approaches over
12 the last four (4) years in order to allow project
13 teams to disband at closure of a project and
14 ultimately transfer that knowledge from contractors
15 into in-house employees, yes?

16 MR. LAWRENCE LAZARKO: Yes.

17 MS. KATHLEEN MCCANDLESS: And so we
18 see there are four (4) headings here in this response.
19 So one (1) is operational resources work directly on
20 the project; two (2), operational resources
21 participate in the project; three (3), formal
22 knowledge transfer; and four (4), operational
23 consultants embedded in teams, yes?

24 MR. LAWRENCE LAZARKO: Yes.

25 MS. KATHLEEN MCCANDLESS: Does the

1 Corporation intend to continue to use this knowledge
2 transfer approach to assist in a possible decrease of
3 reliance on consultants?

4

5 (BRIEF PAUSE)

6

7 MR. LAWRENCE LAZARKO: Yes, we're
8 continuing to use these approaches. As Brad
9 mentioned, we are using an internal-first approach on
10 NOVA. We're also using some of these other techniques
11 on NOVA as well.

12 MS. KATHLEEN MCCANDLESS: Thank you.
13 Kristen, could we -- could we please go to IT Appendix
14 3 from Part 4 of the application, and page 2.

15

16 (BRIEF PAUSE)

17

18 MS. KATHLEEN MCCANDLESS: So if we go
19 up to line 4 of this section of the application, here
20 the Corporation describes what is on the page below at
21 Figure 1. We don't need to go to that quite yet, but
22 it's figure -- pardon me, APP-3-1. So consultant
23 numbers are based on actuals as at April 2019, yes?

24 MR. LAWRENCE LAZARKO: Yes.

25 MS. KATHLEEN MCCANDLESS: And the

1 comment is that the numbers will increase once
2 external resource requirements associated with Project
3 NOVA have been determined?

4 MR. LAWRENCE LAZARKO: Correct.

5 MS. KATHLEEN MCCANDLESS: And that
6 additional clarity is required to forecast the number
7 of consultants required, yes?

8 MR. LAWRENCE LAZARKO: Yes.

9 MS. KATHLEEN MCCANDLESS: Does MPI
10 have a sense as to when it will be in a position to
11 increase its cost certainty for internal and external
12 staffing to support Project NOVA?

13

14 (BRIEF PAUSE)

15

16 MR. JOHN REMILLARD: With respect to a
17 -- a more firm updated, as Mr. Bunko stated in his
18 earlier presentation, we are continuing at this point
19 to assess some of the RFPs. I would expect that from
20 a negotiation perspective, that we will be in a good
21 position by about April of next year to understand
22 what all of the software vendors will be providing as
23 far as services, and what they're going to expect of
24 MPI going forward, what sort of complement they will
25 expect their team to have to support the

1 implementation of that project, particularly the
2 driving vehicle administration.

3 However, at this point, and -- sorry,
4 I'll circle back. So most definitely we'll be able to
5 provide a better update in the 2021 -- or, sorry, '21
6 GRA application. There will be one piece missing at
7 that point to firm up that number, and that is the
8 system integration partner for the property and
9 casualty insurance platform.

10 At this point, we're entering into
11 negotiations with the software vendor; however, the
12 RFP won't be issued probably until the late November
13 time frame, and we don't expect to have those bids
14 back until spring of next year. So depending on the
15 timing, it -- it may work out for the application to
16 be able to have firmer numbers. We will certainly
17 provide, Ms. McCandless, as to what we -- what we have
18 at that -- at that time, yes.

19 MS. KATHLEEN MCCANDLESS: Thank you.
20 Kristen, could you please go to Appendix 5 of this
21 section of the filing, Figure APP-5-1. Thank you.

22 So this figure shows the Project NOVA
23 yearly one (1) time costs, yes?

24 MR. GARY DESSLER: That's correct.

25 MS. KATHLEEN MCCANDLESS: And we know

1 there's a 25 percent contingency --

2 MR. GARY DESSLER: Yes, it is.

3 MS. KATHLEEN MCCANDLESS: -- included
4 therein. So given the anticipated budget of \$106.8
5 million, inclusive of -- of contingency, does MPI
6 foresee any risks with the budget, given the
7 significant effort for resource planning is not yet
8 complete?

9

10

11 (BRIEF PAUSE)

12

13 MR. GARY DESSLER: So, yes. So there
14 -- there definitely is risk to that number, you know,
15 because we have not selected specific products. And
16 as John mentioned, we still have to pick an
17 integrator. We have, you know, some idea of cost, but
18 we have to wait until we get the con -- you know, the
19 contracts with those vendors in order to lock down the
20 costs. So yes, until that time, there is definitely a
21 risk to that \$106.8 million.

22 MS. KATHLEEN MCCANDLESS: Thank you.

23 If we could go to Figure IT-APP-3-6, which is in
24 Appendix 3, page 6. Thank you.

25 Now, this -- just following on the same

1 area, this table shows IT personnel consultants on a
2 full-time equivalent basis forecast in the 2019
3 general rate application as compared to the forecast
4 in this general rate application?

5 MR. LAWRENCE LAZARKO: Yes.

6 MS. KATHLEEN MCCANDLESS: And if we
7 look to the commentary under the table, we see that
8 the numbers from 2019/20 onward are based on actuals
9 as at April 2019, but are expected to increase, yes?

10 MR. LAWRENCE LAZARKO: Yes.

11 MS. KATHLEEN MCCANDLESS: And so it
12 would be fair to say that the numbers are preliminary
13 and they may change substantially as the project
14 advances.

15 MR. LAWRENCE LAZARKO: Just to provide
16 additional clarification on this one, as we mentioned,
17 the proj -- this number adjusts based on the volume of
18 projects, so currently the number is below sixty-nine
19 (69). As legacy progresses, it will add additional
20 resources. We're expecting a net increase.

21 MS. KATHLEEN MCCANDLESS: And the
22 number at this time is below sixty-nine (69). It's...

23 MR. LAWRENCE LAZARKO: As of this
24 morning, it's fifty-three (53).

25 MS. KATHLEEN MCCANDLESS: Thank you.

1 Now, if we could go to Appendix 2 of this section of
2 the filing, page 1. Here the Corporation has provided
3 an update on its external labour strategy, yes?

4 MR. LAWRENCE LAZARKO: Yes.

5 MS. KATHLEEN MCCANDLESS: And if we
6 move to section 3 at page 3, the Corporation provided
7 information about its contingent workforce strategy,
8 yes?

9 MR. LAWRENCE LAZARKO: Yes.

10 MS. KATHLEEN MCCANDLESS: And so
11 perhaps at a high level, you could just explain what
12 the strategy involves, and for your reference, you may
13 want to start with reference to line 13 on the page.

14 MR. LAWRENCE LAZARKO: Certainly. So
15 as Mr. Bunko shared, we've moved away from two (2)
16 strategic partners as the sole provider of external
17 resources for MPI, and through the RFP -- sorry,
18 through an RFSO, we -- sorry -- request for service
19 offering issued earlier this year, we reached out to
20 thirty-one (31) different entities for proposals to
21 provide us with external resources.

22 These resource came in sixty-six (66)
23 variations, everything from a project manager to a
24 business analyst to a technical writer, and we asked
25 them to give us the top quote and to confirm they

1 agree to work with us within our terms and conditions
2 to provide us these type of resources going forward.

3 So if you take a look at line 13, this
4 really talks about how we executed. MPI currently
5 provides this service, so when we have a request for a
6 new resource, we have our team issue a request to our
7 network, to the ten (10) -- in this example, ten (10)
8 providers for project manager. They provide us with
9 five (5) resumes and rates, and we take a look at
10 those, and we determine what the best combination of
11 experience and capability is for MPI. We make a
12 selection. We bring them on board.

13 RFP2915 is going to move this to a
14 third party. We're expecting to turn that on later in
15 December. This third party will manage the process
16 for us, so using self-service portal, we will put in
17 the request, and they will take care of the rest in
18 terms of surveying our network of agents -- or, sorry,
19 our network of providers, collecting resumes,
20 reviewing them for us, presenting us with different
21 candidate and rate combinations, and we still make the
22 ultimate selection.

23 So that is the process as we have it
24 right now and as we expect to have it in December.

25 MS. KATHLEEN MCCANDLESS: And for

1 how long does the Corporation anticipate having that
2 process in place, initially?

3 MR. LAWRENCE LAZARKO: We expect this
4 to be our new model going forward.

5 MS. KATHLEEN MCCANDLESS: Thank you,
6 and if we scroll to the bottom of the page, we see
7 that MPI expects to save between 1.5 million and \$2.5
8 million annually based on this process?

9 MR. LAWRENCE LAZARKO: That's correct.

10 MS. KATHLEEN MCCANDLESS: And in
11 fiscal 2019/20 -- just moving on to the next page --
12 expects to save approximately five hundred thousand
13 dollars (\$500,000), yes?

14 MR. LAWRENCE LAZARKO: Yes.

15 MS. KATHLEEN MCCANDLESS: Does the new
16 contingent workforce strategy take into consideration
17 competitive Winnipeg, Manitoba, skilled IT job -- the
18 -- the market -- the skilled IT job market in Winnipeg
19 and the costs that are required to acquire and retain
20 skilled employees?

21 MR. LAWRENCE LAZARKO: Can you
22 rephrase the question?

23 MS. KATHLEEN MCCANDLESS: Sure. The
24 strategy --

25 MR. LAWRENCE LAZARKO: Yeah.

1 MS. KATHLEEN MCCANDLESS: -- that
2 MPI's employing here, ha -- has it taken into account,
3 essentially, the labour market for IT, so the costs
4 that would be involved in acquiring and retaining
5 skilled IT employees?

6 MR. LAWRENCE LAZARKO: I believe so,
7 yes.

8 MS. KATHLEEN MCCANDLESS: Mr. Bunko,
9 you spoke this morning -- or, pardon me, this
10 afternoon; it's been a long day, I supposed -- on
11 agile, and in your response to some of Mr. Guerra's
12 questions, you explained what agile is. Just to
13 rephrase or to confirm, so MPI currently uses a
14 waterfall approach in its projects.

15 MR. BRAD BUNKO: Correct.

16 MS. KATHLEEN MCCANDLESS: And that
17 involves building all the requirements up front before
18 entering into the development phase?

19 MR. BRAD BUNKO: Correct.

20 MS. KATHLEEN MCCANDLESS: And so by
21 contrast, agile means breaking the project down into
22 smaller components, knowing only the high-level
23 requirements at that time, initially?

24 MR. BRAD BUNKO: Initially, yes.

25 MS. KATHLEEN MCCANDLESS: And so the

1 potential benefits of agile as compared to waterfall,
2 then, agile being an iterative process. There's --
3 there's more business interaction, so it's essentially
4 more agile, correct? That -- that's why it's called
5 agile?

6 MR. BRAD BUNKO: Change on -- change
7 on the go, yes.

8 MS. KATHLEEN MCCANDLESS: Okay. Now,
9 those would be the benefits, but can agile be
10 considered risky in terms of delivering on IT
11 initiatives?

12 MR. BRAD BUNKO: Well, I think
13 anything, any delivery, can be risky. I see much less
14 risk in agile, comparing it to waterfall, because you
15 are breaking it into smaller chunks.

16 The risk with a waterfall delivery is
17 that often, you don't know the outcome until very late
18 in the project, so you may have spent months and
19 months developing something, only to find out at the
20 end that it's not going to work as planned. So
21 frankly, agile greatly reduces the risk of delivery
22 over waterfall.

23 MS. KATHLEEN MCCANDLESS: Are costs --
24 so both financial and opportunity costs -- related to
25 the continual integration of business owners

1 throughout the agile initiatives considered in
2 preparing the business cases?

3

4 (BRIEF PAUSE)

5

6 MR. BRAD BUNKO: It's an interesting
7 question because we haven't built a lot of business
8 cases around the agile methodology. We have taken
9 business cases that were originally anticipated to be
10 delivered with waterfall and ha -- and have then very
11 successfully delivered them with agile. So as far as
12 from a gis -- a business case perspective, resource
13 requirements, the overall cost of -- of delivering via
14 agile versus waterfall can be very similar, but with -
15 - with less risk.

16 MS. KATHLEEN MCCANDLESS: Thank you.
17 Will MPI continue to use waterfall software delivery
18 methods?

19 MR. BRAD BUNKO: I think, like, full-
20 on waterfall, we'll -- we'll see less and less of
21 that, but for the right size projet, for a smaller
22 project, waterfall is fine. No sense breaking down a
23 small project into ten (10) chunks when it can easily
24 be managed as one (1) whole chunk.

25 MS. KATHLEEN MCCANDLESS: So the

1 Corporation, then, is intending to employ a hybrid
2 approach, where some initiatives will be delivered
3 traditionally or in the waterfall method, and other
4 via agile, yes?

5 MR. BRAD BUNKO: Correct.

6 MS. KATHLEEN MCCANDLESS: And how does
7 the Corporation intend to manage that type of an
8 approach, so using two (2) methods within its IT
9 service?

10 MR. BRAD BUNKO: It's not too
11 difficult. I think a -- a lot of the delivery that
12 we'll be doing through agile methodologies will
13 through -- be through product teams, which is what we
14 are essentially evolving, as opposed to -- to a
15 project team delivering something.

16 So organizations that I've talked to,
17 they -- they work very well hand in hand. They learn
18 each other's methodologies, and sometimes, they do a
19 little bit of customization to whatever was a hard-
20 core waterfall, they've converted and softened around
21 the edges to -- to get some of the benefits that agile
22 is seeing.

23 So I don't think there's going to be
24 any issue about having multiple types of delivery
25 methodologies in an organization. In fact, we have

1 that right now, and we're not finding anything. It
2 just seems to be heavier on the side of waterfall than
3 on the agile side.

4 MS. KATHLEEN MCCANDLESS: Does the
5 Corporation ever intend to be fully agile throughout
6 the organization?

7 MR. BRAD BUNKO: Yeah, so agile -- we
8 talked a lot about agile delivery, but you can -- I
9 mean, if you go to the methodology and you really get
10 deep into it, agile can go all the way up to how the
11 board makes their decisions. Like, it can be -- it
12 can go through and through the organization.

13 We are certainly focussing on agile for
14 delivery of software, implementations of software, and
15 for decisions of prioritization as to what software
16 should be delivered when. That is currently the
17 general scope of where we want to apply agile
18 methodologies.

19 MR. GARY DESSLER: If I could just
20 jump in. I think in -- in certain projects, maybe
21 more around infrastructure -- so if we're doing, like,
22 a network upgrade or replacing hardware, right, those
23 kinds of projects are, you know, more aligned to a
24 waterfall approach, right? There's not nearly as much
25 business involvement because it's pure infrastructure,

1 so those are going to be more waterfall, essentially,
2 in -- in nature.

3 MS. KATHLEEN MCCANDLESS: Thank you.
4 External expertise is required or -- or considered for
5 agile roles within the Organization, yes?

6 MR. BRAD BUNKO: Yes.

7 MS. KATHLEEN MCCANDLESS: So how will
8 the existing stakeholders or contributors be trained
9 on the agile methodology?

10 MR. BRAD BUNKO: So we have gone
11 through a few different phases of agile training
12 within the Corporation, scrum masters, for example,
13 are somebody who's really hands-on, and there has been
14 specific courses for several of our scrum masters.

15 Product owners is a very hands-on role
16 as well. And we have provided training to several
17 individuals within the Organization for those roles.

18 We have also then given some more
19 broad-based training on just agile and how it works,
20 and user stories, which is a component of -- a way to
21 describe a feature inside of agile.

22 So we're doing it through training
23 right now. We -- we know we are almost getting to a
24 point where we need to get to that next level, and in
25 order to do that, we are bringing on an agile coach,

1 which will be able to increase our ability to see
2 things that we don't know what to look for.

3 So in doing so, as I -- as I mentioned,
4 we -- we as an Organization have to understand how far
5 we want to take agile. I describe, you know, in loose
6 terms, where I think it needs to go, but it's really
7 an Organizational dec -- decision. It's not a
8 technology decision.

9 And then we need to be able to define
10 the gaps to be able to get there. So a roadmap will
11 need to be created so that we can fully utilize the
12 vision of agile within MPI.

13 MS. KATHLEEN MCCANDLESS: And are
14 there additional costs to the Organization for this
15 type of training, or is that cost already baked into
16 the budget?

17 MR. BRAD BUNKO: There are -- there
18 are -- are additional costs, and yes, to date, we've
19 included them in our existing training budgets, to
20 date.

21 MS. KATHLEEN MCCANDLESS: How many
22 facilitators of agile is the Corporation using?

23

24

(BRIEF PAUSE)

25

1 MR. BRAD BUNKO: We have eight (8) --
2 eight (8) scrum masters and approximately five (5)
3 product owners.

4 MS. KATHLEEN MCCANDLESS: And are
5 those all external to the Corporation?

6 MR. BRAD BUNKO: They are all internal
7 to the Corporation.

8 MS. KATHLEEN MCCANDLESS: And you
9 spoke of the training on agile. So what proportion of
10 the existing staff complement is now fully trained on
11 agile techniques?

12 MR. BRAD BUNKO: I can say that the
13 teams that are delivering through agile are trained on
14 agile. As far as what percentage of the teams are
15 utilizing agile, that I will have to see if I can get
16 an average.

17

18 (BRIEF PAUSE)

19

20 MR. BRAD BUNKO: So of our application
21 support teams, it's approximately 50 percent that have
22 been trained on agile methodologies.

23 MS. KATHLEEN MCCANDLESS: Thank you.
24 If we could go to PUB-MPI-1-80.

25 And at this Information Request, the

1 Corporation was asked at 'A' to provide a list
2 description of metrics and measures in development for
3 agile design and delivery, and at 'B' to provide
4 target baseline values associated to each metric and
5 measure provided in 'A', yes?

6

7 (BRIEF PAUSE)

8

9 MS. KATHLEEN MCCANDLESS: I'm just
10 asking you to confirm the questions that were asked at
11 'A' and 'B'.

12 MR. BRAD BUNKO: Yes.

13 MS. KATHLEEN MCCANDLESS: Yes. And
14 then if we move to the next -- to the response, we
15 have at 'A', in the agile pilots, the teams are
16 consistently planning, monitoring progress to those
17 plans, and re-planning as more information becomes
18 available.

19 And the key performance indicators that
20 the teams monitor are business value delivered versus
21 planned, difficulty delivered versus planned, user
22 stories delivered versus planned. And onto the next
23 page, cost per sprint, yes?

24 MR. BRAD BUNKO: Yes.

25 MS. KATHLEEN MCCANDLESS: And then at

1 'B', the Corporation advised that there are currently
2 no baselines established for these metrics for several
3 reasons, and goes on to provide those reasons.

4 What -- and just to follow on -- on
5 this, what are the expected monitoring metrics to
6 ensure that the Project NOVA budget is accounted for
7 and -- and budget appropriations are accurate?

8

9 (BRIEF PAUSE)

10

11 MR. BRAD BUNKO: I can do this one. I
12 think it's -- well, you know, within any project,
13 whether it's been delivered through waterfall or
14 agile, there's certain value that needs to be
15 delivered throughout the -- throughout the project.

16 So in measuring that value through the
17 project is imp -- important. It's called earned
18 value, and it means that we've actually accomplished
19 that level of value.

20 So whether you're delivering something
21 through an agile methodology or a waterfall
22 methodology, you can continually monitor how much
23 value you've actually created within the project.

24 That's a high level perspective of
25 doing it, but it is good -- it's a good indicator as,

1 you know, if you're talking about development, what
2 percentage of your development is done? In a
3 waterfall, that -- that is less meaningful, because
4 it's just code, but you haven't translated that code
5 into a functioning piece of software. But in an
6 agile, where you're actually going from sprint to
7 sprint, so developing code, having people look at it,
8 you're actually being able to validate that value
9 that's created after each sprint.

10 MS. KATHLEEN MCCANDLESS: So given the
11 uncertainty related to cot -- delivery and controls,
12 can MPI be confident that the Project NOVA the budget
13 is reasonable?

14 MR. BRAD BUNKO: I think there is a
15 lot left, certainly, from the software that we need to
16 buy, the interactions of system integrators as to
17 their expectations versus ours.

18 I would still be cautious in that there
19 is a fair bit of information that we need to know yet
20 before I could pass judgement in -- onto the validity
21 of that current budget.

22 MS. KATHLEEN MCCANDLESS: Thank you.
23 Now onto the issue of benchmarking.

24

25 (BRIEF PAUSE)

1 MS. KATHLEEN MCCANDLESS: And if we
2 could go to CAC-MPI-1-47, and the first page of this -
3 - or pardon me, page 3.

4

5 (BRIEF PAUSE)

6

7 MS. KATHLEEN MCCANDLESS: CAC-MPI-1-
8 47, yeah, page 3. Thank you, Kristen.

9 If we can scroll down, at 'B', here,
10 this relates to benchmarking services provided by Ward
11 Group and Gartner. And here, this is from the
12 benchmarking section of the filing. It states:

13 "MPI has discontinued the services
14 provided by Ward Group and Gartner.
15 As a result, the benchmarking
16 results presented below will be the
17 final iteration of operational
18 efficiency and IT service delivery
19 areas. MPI is currently exploring
20 alternative benchmarking approaches,
21 which may include collaborating with
22 other Crown insurance providers."

23 And we heard a little bit about that
24 during your presentation, Mr. Bunko, yes?

25 MR. BRAD BUNKO: (NO AUDIBLE

1 RESPONSE) .

2 MS. KATHLEEN MCCANDLESS: So at this
3 time, then, third parties are not reviewing MP oper --
4 MPI operations for benchmarking purposes, as of right
5 now, correct?

6 MR. BRAD BUNKO: Correct.

7 MS. KATHLEEN MCCANDLESS: And the
8 Corporation does intend to issue a request for
9 proposal for benchmarking purposes?

10 MR. BRAD BUNKO: Correct.

11 MS. KATHLEEN MCCANDLESS: When will
12 the RFP for benchmarking services be issued?

13 MR. BRAD BUNKO: Friday.

14 MS. KATHLEEN MCCANDLESS: Friday?
15 Okay. And would it possible to provide a copy of that
16 RFP to the Board?

17 MR. BRAD BUNKO: Sure.

18 MS. KATHLEEN MCCANDLESS: So if we
19 could have that by way of undertaking to file with the
20 Board a copy of the request for proposals for
21 benchmarking services issued by the Corporation?

22 MR. ANTHONY GUERRA: Sorry. Can you
23 just restate what the undertaking is?

24 MS. KATHLEEN MCCANDLESS: That would
25 be to file with the Board a copy of the request for

1 proposals for benchmarking services issued by the
2 Corporation?

3

4 (BRIEF PAUSE)

5

6 MR. ANTHONY GUERRA: Yes. We'll
7 provide the undertaking with the caveat that we won't
8 be able to provide it until Monday, I believe.

9 MS. KATHLEEN MCCANDLESS: Thank you.

10

11 --- UNDERTAKING NO. 27: MPI to provide a copy of
12 the request for proposals
13 for benchmarking services
14 issued by the Corporation

15

16 CONTINUED BY MS. KATHLEEN MCCANDLESS:

17 MS. KATHLEEN MCCANDLESS: So at this
18 time, are you able to speak to the qualifications that
19 are required of the agencies from whom the Corporation
20 is seeking proposals?

21 MR. LAWRENCE LAZARKO: Yes, we are, or
22 yes, we can.

23 MS. KATHLEEN MCCANDLESS: And what
24 would those qualifications be?

25 MR. LAWRENCE LAZARKO: Through the

1 RFP, we've indicated we are looking for a benchmarking
2 service that measures, in essence two (2) things:
3 that it will provide a report that we can use
4 internally and also share with this Board on an annual
5 basis.

6 We are looking for details. We are
7 looking for -- sorry. The services that we're looking
8 for them to provide will be related to our process
9 maturity, similar to what you've seen with Gartner in
10 the past, and also benchmarking of our financials.

11 Both of those, we aim to be benchmarked
12 into the peer group. Peer group is a very, very
13 important concept to us. It shows the relevance of
14 those measures, not just MPI's progress but MPI's
15 progress against a group you would expect MPI to be a
16 peer to.

17 So that is going to be a main
18 qualification in the RFP process. We also have a
19 percentage allocated to references and to actually
20 providing us sample documents or previous client
21 documents we can review and ascertain the quality.

22 We want to make sure that we
23 comprehensively cover both the process maturity and
24 the IT costing, and we can do it in a way that's easy
25 to reference and meaningful to use.

1 MS. KATHLEEN MCCANDLESS: Thank you.

2 And what criteria is the Corporation employing to
3 evaluate the responses to the request for proposals?

4

5 (BRIEF PAUSE)

6

7 MR. LAWRENCE LAZARKO: Cost, of
8 course. Then we're looking for relevant experience,
9 ability to meet our functional requirements -- so
10 specifically, can they meet our needs? -- samples of
11 different materials. Those would be the key things
12 we're looking for.

13 MS. KATHLEEN MCCANDLESS: Thank you.
14 And does the Corporation know when it has scheduled
15 the decision to be made with respect to which company
16 to contract with?

17 MR. LAWRENCE LAZARKO: Based on the
18 RFP timeline, it'll be early December with work
19 commencing in January. We anticipate that's
20 sufficient time to get a report available for the GRA.

21 MS. KATHLEEN MCCANDLESS: So that
22 would be for the '20/'21 GRA, yes?

23 MR. LAWRENCE LAZARKO: Correct.

24 MS. KATHLEEN MCCANDLESS: Thank you.
25 Now in previous general rate applications, we have

1 reviewed a number of the recommendations that Gartner
2 has made to the Corporation on its IT maturity, and
3 that update has been filed again this year.

4 That's part of an annual review that
5 Gartner has provided in the past for MPI, yes?

6 MR. LAWRENCE LAZARKO: Correct.

7 MS. KATHLEEN MCCANDLESS: And a number
8 of those recommendations would be ongoing with updates
9 provided to the Board in each GRA?

10 MR. LAWRENCE LAZARKO: Correct.

11 MS. KATHLEEN MCCANDLESS: Now if we
12 turn to PUB-MPI-1-63, this Information Request asked
13 for a list of the recommendations rejected withdrawn
14 by Gartner included in other recommendations complete
15 or operational in 2019, yes?

16 MR. LAWRENCE LAZARKO: Yes.

17 MS. KATHLEEN MCCANDLESS: And the
18 following pages include some of -- all of those
19 recommendations, whether it was withdrawn or
20 incorporated in another recommendation.

21 My question that was -- is general. So
22 will the Corporation expect that the new third-party
23 benchmarking provider deal with some of the
24 recommendations or any of the recommendations that
25 have been, say, withdrawn by Gartner?

1 (BRIEF PAUSE)

2

3 MR. LAWRENCE LAZARKO: Two (2) parts
4 to this. The new provider will have full latitude to
5 speak to any content that they see and make any
6 recommendation based upon their experience, their
7 expertise, the benchmarking. There is no restriction
8 based on anything previously withdrawn by Gartner.

9 MPI will continue to follow up and
10 report on the Gartner-specific items until they've
11 been resolved, either completed in operational or
12 rejected with reasons, and we'll provide that on an
13 annual basis.

14 MS. KATHLEEN MCCANDLESS: Thank you.
15 So I take it then -- and I -- that the new third-party
16 benchmarking provider will be expected to essentially
17 provide the same advice that Gartner had been
18 providing with respect to IT maturity, yes?

19 MR. LAWRENCE LAZARKO: Yes.

20 MS. KATHLEEN MCCANDLESS: And with
21 respect to the transition of open or in-progress or
22 deferred items from Gartner, I understand then your
23 testimony that those will be dealt with in conjunction
24 with a new third-party provider?

25 MR. LAWRENCE LAZARKO: We want to be

1 careful in that we don't ask the third-party provider
2 to opine on items previously raised by Gartner. We
3 want to give them that full latitude so they can speak
4 to things that they see and they support and they
5 recommend.

6 And then we'll -- MPI will manage the
7 two (2) different lists separately and reconcile those
8 and bring those updates here.

9 MS. KATHLEEN MCCANDLESS: Thank you.
10 Now just briefly on the physical damage re-engineering
11 project. And the panel will be familiar that in
12 previous general rate applications, the PDR project or
13 physical damage re-engineering project has been
14 reviewed in detail, yes?

15 MR. JOHN REMILLARD: Yes.

16 MS. KATHLEEN MCCANDLESS: And that
17 included reports prepared by Gartner on the -- I'm
18 going to call it PDR project. I hope that's okay.

19 MR. JOHN REMILLARD: Physical damage
20 re-engineering.

21 MS. KATHLEEN MCCANDLESS: Yes.

22 MR. JOHN REMILLARD: Correct.

23 MS. KATHLEEN MCCANDLESS: Okay. And
24 in Order 159/18 after the 2019 GRA, the Board directed
25 the Corporation to file a further update by Gartner on

1 the PDR project?

2 MR. JOHN REMILLARD: Correct.

3 Correct.

4 MS. KATHLEEN MCCANDLESS: And that's
5 found at MPI Exhibit number 22. Mr. Remillard, you're
6 familiar with the report in front of you?

7 MR. JOHN REMILLARD: I am.

8 MS. KATHLEEN MCCANDLESS: And if we
9 jump to page 4 of the report at the bottom of the
10 page. Perfect. Thank you.

11 So we see that in 2019, MPI completed
12 the two (2) remaining PDR projects for \$351,721 less
13 than the forecast budget, yes?

14 MR. JOHN REMILLARD: That is correct.

15 MS. KATHLEEN MCCANDLESS: And that was
16 the customer claims reporting service cancellation?

17 MR. JOHN REMILLARD: Correct.

18 MS. KATHLEEN MCCANDLESS: And the
19 physical damage re-engineering completion?

20 MR. JOHN REMILLARD: Yes.

21 MS. KATHLEEN MCCANDLESS: And at
22 table 3 on the next page, we see the net present value
23 analysis. So on the left-hand side of the page, we
24 see the net present value analysis from the 2019 GRA?
25 Yes?

1 MR. JOHN REMILLARD: That is correct.

2 MS. KATHLEEN MCCANDLESS: And that was
3 a negative net present value of \$49.72 million?

4 MR. JOHN REMILLARD: Correct.

5 MS. KATHLEEN MCCANDLESS: And the
6 update is now negative \$49.96 million, yes?

7 MR. JOHN REMILLARD: Correct.

8 MS. KATHLEEN MCCANDLESS: And so if we
9 then proceed to page 13 of the PDF with respect to the
10 conclusions, we note that the PDR program has now
11 transitioned to operations, yes?

12 MR. JOHN REMILLARD: I'm sorry,
13 Ms. McCandless.

14 MS. KATHLEEN MCCANDLESS: Top of the
15 page under "conclusions."

16 MR. JOHN REMILLARD: Could -- could
17 you go back to your last question, please? I may have
18 made an error --

19 MS. KATHLEEN MCCANDLESS: Oh, sure.

20 MR. JOHN REMILLARD: -- on the NPV
21 analysis. My apology.

22 MS. KATHLEEN MCCANDLESS: So page 5.

23 MR. JOHN REMILLARD: Sorry. Could you
24 repeat the question then?

25 MS. KATHLEEN MCCANDLESS: Just --

1 MR. JOHN REMILLARD: I just want to
2 make sure I'm correct on the record.

3 MS. KATHLEEN MCCANDLESS: So we have a
4 2018 versus a 2019 net present value analysis, yes?

5 MR. JOHN REMILLARD: That's what their
6 table stated. It -- you know what? You may have
7 caught an error. Can I just check for one sec?

8

9 (BRIEF PAUSE)

10

11 MR. JOHN REMILLARD: Both of these
12 numbers are the 2019 analysis.

13 MS. KATHLEEN MCCANDLESS: That was my
14 error, not yours. Yes. Okay. And so this is the
15 current analysis then. One is MPI's analysis, and
16 one's Gartner's analysis.

17 MR. JOHN REMILLARD: That is correct.
18 Sorry for the confusion.

19 MS. KATHLEEN MCCANDLESS: So if we
20 then proceed to the conclusions, the PDR program has
21 now transitioned to operations, yes?

22 MR. JOHN REMILLARD: That is correct.

23 MS. KATHLEEN MCCANDLESS: And then
24 just below that lead paragraph, the Project NOVA will
25 take five (5) years or more, and Gartner notes that:

1 "During that time, there will be
2 little funding or IT resources to
3 enhance current systems. As such,
4 it is important that the
5 PDR-provided capabilities and
6 processes are sufficiently flexible
7 and scalable to meet the business
8 needs over this period."

9 Yes?

10 MR. JOHN REMILLARD: Agreed.

11 MS. KATHLEEN MCCANDLESS: So how is
12 MPI going to ensure that these PDR-provided
13 capabilities and processes are flexible during -- over
14 the next five (5) years?

15 MR. JOHN REMILLARD: Ultimately with
16 the transition to operations, in essence what that
17 mean -- what that means is that that has now been
18 built into our go-forward IT operational budgets.

19 And so the Mitchell platform is -- is
20 primarily the -- the software that we're relying on
21 here now due to the other impairments. And we are
22 continuing to work with Mitchell and adopting their
23 new capabilities through that -- through that process
24 going forward.

25 MS. KATHLEEN MCCANDLESS: If we go to

1 the last paragraph on page 13 under "conclusions,"
2 Gartner notes that, as stated in its 2018 report, it's
3 these technology advancing in mobility and customer
4 support, and MPI's customers are no longer tethered to
5 nor expect service primarily from a computer.
6 Instead, they're tied to mobile devices, text
7 messaging, and social media, yes?

8 MR. JOHN REMILLARD: Yes.

9 MS. KATHLEEN MCCANDLESS: And then
10 continuing on, Gartner believes that as mobile -- and
11 if we scroll down -- other customer support
12 capabilities emerge in other jurisdictions, MPI may
13 need to make an investment above that planned in the
14 Project NOVA to deliver capabilities equivalent to
15 those available elsewhere, yes?

16 MR. JOHN REMILLARD: That is correct.

17 MS. KATHLEEN MCCANDLESS: So perhaps
18 you could just provide some comment on what
19 Gartner's --

20 MR. JOHN REMILLARD: Stating?

21 MS. KATHLEEN MCCANDLESS: -- yes --
22 stating here.

23 MR. JOHN REMILLARD: Okay. When we
24 look at -- looking backwards in -- into the histories
25 of -- of the physical damage re-engineering program,

1 as -- as we've shared in the past and probably echoed
2 in this year, the customer claims reporting system --
3 CCRS as noted here -- was a -- a major impairment, and
4 that was primarily due to a custom development
5 approach.

6 And so with that and part of the
7 lessons learned that Mr. Bunko shared in his opening
8 testimony, as we've gone to market for our property
9 and casualty insurance platform, the physical damage
10 claims aspect is -- is part of that -- that platform.

11 What we've also looked for in choosing
12 that product is that product's capability to provide
13 online supported services to our customers going
14 forward, be it for insurance sales, modification of
15 their insurance products, and, of course, being able
16 to provide a first notice of loss on their claims.

17 So those are, in essence, business
18 capabilities that we were looking forward to
19 implementing with that new platform in a more
20 cost-effective means than our original CCRS vision.

21 MS. KATHLEEN MCCANDLESS: Thank you.
22 Now if we could -- I just have a few questions on the
23 program governance vendor that was discussed --

24 MR. JOHN REMILLARD: Yeah.

25 MS. KATHLEEN MCCANDLESS: -- earlier.

1 So that's with reference to MPI Slide 16 and MPI
2 Exhibit 60.

3 MR. JOHN REMILLARD: Okay.

4 MS. KATHLEEN MCCANDLESS: And just a
5 few questions for clarification.

6 MR. JOHN REMILLARD: Sure.

7 MS. KATHLEEN MCCANDLESS: So
8 Mr. Guerra had some questions about the type of
9 reporting --

10 MR. JOHN REMILLARD: M-hm.

11 MS. KATHLEEN MCCANDLESS: -- that the
12 program governance vendor will be doing. And I
13 understand the first is going to be an eight (8) week
14 deep dive report, yes?

15 MR. JOHN REMILLARD: That is correct.
16 It will due to -- go to our technology committee in
17 early December of this year.

18 MS. KATHLEEN MCCANDLESS: And is that
19 something that the Corporation intends to provide to
20 the Board?

21 MR. JOHN REMILLARD: Yes. We intend
22 on filing the original assessment as well as all the
23 monthly assessments that will be performed by the
24 governance vendor going forward as part of the next
25 year's application -- yes -- and subsequent

1 applications.

2 MS. KATHLEEN MCCANDLESS: Okay. So
3 you answered all of my questions with your response.
4 So it's monthly reporting, and all of those monthly
5 reports will be provided to the Board.

6 MR. JOHN REMILLARD: That is correct.

7 MS. KATHLEEN MCCANDLESS: Thank you.
8 Those are my questions.

9 THE CHAIRPERSON: It's 3:24.
10 Mr. Williams, do you want to commence your
11 cross-examination?

12 DR. BYRON WILLIAMS: I'm happy to. I
13 am just mindful that we've been going for a fair bit.
14 I wouldn't mind if -- offering folks a three (3)
15 minute refreshment break.

16 THE CHAIRPERSON: A three (3) minute
17 refreshment break is an excellent idea. Thank you.
18 We'll see everybody at 3:28.

19

20 --- Upon recessing at 3:25 p.m.

21 --- Upon resuming at 3:29 p.m.

22

23 THE CHAIRPERSON: Thank you. Mr.
24 Williams...?

25

1 CROSS-EXAMINATION BY DR. BYRON WILLIAMS:

2 DR. BYRON WILLIAMS: Yes. Hello
3 again, panel. I will reiterate the comments of My
4 Learned Friend, counsel to the Public Utilities Board
5 in two (2) ways. Some of my questions will just be
6 proposed generically to the panel, so you pick them,
7 and secondly, though, my examination this afternoon
8 will be short. It's been prepared with material on
9 the public record.

10 Again, if I inadvertently seek an
11 answer that is com -- commercially sensitive, you'll
12 let me know, and we'll defer it to tomorrow.

13 Mr. Lazarko, in -- in your discussion
14 with PUB counsel earlier this morning -- this
15 afternoon, with regard to the information technology
16 benchmarking, you made a statement, something to the
17 effect that the peer group was very important.

18 Do you recall making a statement to
19 that effect, sir?

20 MR. LAWRENCE LAZARKO: I do.

21 DR. BYRON WILLIAMS: And you'll
22 correct me if I'm wrong, but would it be fair to -- to
23 suggest that in the most -- fairly recently, the ICBC
24 and SGI withdrew from the Gartner benchmarking
25 process?

1 MR. LAWRENCE LAZARKO: That's not
2 something I'm aware of or -- or could speak to.

3 DR. BYRON WILLIAMS: That's fair. So
4 let me try this a -- a different way, sir. In terms
5 of the peer group that MPI considers important to be
6 compared to, presumably it will include the other
7 Provincial Crown insurers?

8

9 (BRIEF PAUSE)

10

11 MR. BRAD BUNKO: The other insurers
12 would need to agree to participate. And I do know
13 that SGI, on occasion, has participated, but it -- on
14 a very irregular basis.

15 DR. BYRON WILLIAMS: So in terms of
16 having the peer group important -- important, perhaps
17 MPI could give us some insight into some of the
18 comparators it is looking for -- for in terms of the
19 IT benchmarking -- benchmarking process?

20

21 (BRIEF PAUSE)

22

23 MR. BRAD BUNKO: It's important to
24 have a good peer group. Even within Gartner's peer
25 group, it fluctuates on an annual basis. I know the

1 numbers are inside of this year's report. I'm just
2 looking for them, but I believe at least three (3) of
3 the eleven (11) were new people to the peer group for
4 this year. So it does change on a very regular basis.

5 DR. BYRON WILLIAMS: So -- but in
6 terms of the criteria in assessing the quality of the
7 peer group that's being proposed, is Manitoba Public
8 Insurance looking at analogous size of property and
9 casualty insurers, size of the Corporation, Provincial
10 Crown status? What are some of the indicia that it's
11 looking for?

12 MR. BRAD BUNKO: All of those things.
13 It obviously has a limited pool for people that are
14 very similar to us, but it does look for organizations
15 our size, in our vertical, private and public. And I
16 think for some of the broader categories, like maybe
17 just infrastructure and operations, it could be even a
18 -- a different peer group or a peer group that is --
19 that is less like us.

20 DR. BYRON WILLIAMS: And do you want
21 to elaborate on that "less like us" in that specific
22 context, sir?

23 MR. BRAD BUNKO: Public insurer.

24

25 (BRIEF PAUSE)

1 DR. BYRON WILLIAMS: We are going to
2 have, as I -- and as I did yesterday, a few short
3 snappers to us start out.

4 I wonder if we can go to Appendix 14,
5 MPI's determination of cost of capital for value
6 management business cases. And we can go to page 3 of
7 -- of 9 at the top.

8 Generally speaking, Manitoba Public
9 Insurance has employed a standard corporate cost of
10 capital for the financial analysis of business cases
11 for the last couple of years.

12 Would that be fair?

13 MR. JOHN REMILLARD: That's fair.

14 DR. BYRON WILLIAMS: And Mr.
15 Remillard, you can check if you need, but I'll -- I'll
16 suggest to you that it -- it started doing so in 2017?

17 MR. JOHN REMILLARD: Agreed.

18 DR. BYRON WILLIAMS: And it did
19 another review of the cost of capital in 2018, agreed?

20 MR. JOHN REMILLARD: Agreed.

21 DR. BYRON WILLIAMS: And so this is
22 the third in three (3) years, sir?

23 MR. JOHN REMILLARD: Yes.

24 DR. BYRON WILLIAMS: And -- and if you
25 can speak to this, is it -- is it the intent that the

1 cost of capital would be reviewed on an annual basis,
2 sir?

3 MR. JOHN REMILLARD: Yes, it is, so
4 that we remain current.

5 DR. BYRON WILLIAMS: And the purpose
6 of hurdle rates, or the analysis, is to identify the
7 appropriate discount rate to be applied to
8 cost/benefit analysis of projects and other
9 initiatives, sir?

10 MR. JOHN REMILLARD: Agreed.

11 DR. BYRON WILLIAMS: And for the
12 purposes since January of 2019, MPI has adopted a
13 hurdle rate of 4 percent for low risk projects, 6
14 percent for medium risk projects, and 9 percent for
15 high risk projects, agreed?

16 MR. JOHN REMILLARD: That is correct.

17 DR. BYRON WILLIAMS: And so I just
18 want to direct your attention to the discussion at the
19 top of page 3 of this section. And -- and you'll see
20 here a discussion of the pros and cons of using a low
21 risk average investment return of 4 percent.

22 Do you see that in front of you, sir?

23 MR. JOHN REMILLARD: I do.

24 DR. BYRON WILLIAMS: And specifically,
25 want to identify -- or direct your attention to lines

1 6 to 10. And you see a reference there to the
2 conservative portfolio of MPI, and a comment that the
3 hurdle rate based on this rate may be too low to
4 reflect -- reflect the true risk of corporate projects
5 that are being considered.

6 Do you see that reference, sir?

7 MR. JOHN REMILLARD: I do.

8 DR. BYRON WILLIAMS: And could --
9 could you elaborate on this comment, sir?

10 MR. JOHN REMILLARD: Just one moment,
11 please.

12

13 (BRIEF PAUSE)

14

15 MR. JOHN REMILLARD: On a standard
16 proj -- on a standard project, that would be true. As
17 with any project, we -- we need to assess the overall
18 risks, and the inherent risk associated with that
19 project would result in the application of the
20 appropriate discount rate, yes.

21 Did that answer question, sir?

22

23 (BRIEF PAUSE)

24

25 DR. BYRON WILLIAMS: I think what I'm

1 hearing -- hearing you say, sir, is that this might be
2 too low for a standard project, but for a low risk
3 project, it might be appropriate?

4 MR. JOHN REMILLARD: That is fair.

5

6 (BRIEF PAUSE)

7

8 DR. BYRON WILLIAMS: I wonder if we
9 can go to the Gartner report, the annual IT benchmeant
10 -- mark, executive summary part. And so that's the
11 benchmark Attachment A, Gartner, page 13.

12

13 (BRIEF PAUSE)

14

15 DR. BYRON WILLIAMS: And so some of
16 this conversation was started with the expenditure
17 panel last weekend. It was deferred to this panel.
18 But generally, I want to direct the attention of MPI
19 to the -- to the right side of the slide, being page
20 13, and the observations.

21 And there's a suggestion that
22 outsourced spending is 94 percent higher than the peer
23 group average, reflecting MPI's operating model.

24 Do you see that reference?

25 MR. LAWRENCE LAZARKO: Yes, I do.

1 DR. BYRON WILLIAMS: And for the
2 2017/'18 year, that would be in the range of \$10.2
3 million?

4 MR. LAWRENCE LAZARKO: Yes.

5 DR. BYRON WILLIAMS: And you'll see as
6 well on the third bullet that maintenance costs are
7 421 percent higher than the peer group, and suggesting
8 that a lot of those mainten -- maintenance costs are
9 for software maintenance, agreed?

10 MR. LAWRENCE LAZARKO: Yes.

11 DR. BYRON WILLIAMS: And in '17/'18,
12 maintenance costs were in the range of 5.8 million,
13 sir?

14 MR. LAWRENCE LAZARKO: That's correct.

15 DR. BYRON WILLIAMS: So I want to draw
16 your attention down to the -- the notes. And you'll
17 see a suggestion that the outsourcing costs include a
18 prepayment for future upgrades in the IBM contract,
19 which avoids large single year increases, but presents
20 a higher yearly cost that might be expected.

21 MR. LAWRENCE LAZARKO: I see that
22 statement.

23 DR. BYRON WILLIAMS: And is that
24 consistent with your understanding of the pre --
25 prepayment arrangement, sir?

1 (BRIEF PAUSE)

2

3 MR. LAWRENCE LAZARKO: Just to give
4 this a little bit of additional context, so what's
5 referenced there is what's called a vitality clause.
6 We've spoken about it previous years.

7 This is a -- a charge that is charged
8 to expenses that allows MPI to secure upgrades and
9 updates to its major infrastructure at regular
10 intervals. This addresses volatility. It avoids
11 situations where MPI's going to make significant
12 capital outlays in the future.

13 So this is -- is included, and it is
14 higher than peer. It is something that we have a been
15 in discussions with Gartner on how to effectively
16 measure it, because while it's treated as an expense,
17 it actually offsets a capital item.

18 We see the same issue on the next
19 statement on the maintenance costs.

20 DR. BYRON WILLIAMS: And we'll work
21 our way through this, and thank you.

22 So the suggestion in this next
23 statement is that lower maintenance costs are due in
24 part to the practice of maint -- maintenance bundling
25 for software enterprise license agreements.

1 Do you see that reference?

2 MR. LAWRENCE LAZARKO: I do.

3 DR. BYRON WILLIAMS: And is this an
4 opportunity that MPI currently takes advantage of,
5 this -- this bundling?

6

7 (BRIEF PAUSE)

8

9 MR. LAWRENCE LAZARKO: MPI purchases
10 its key software within infrastructure and operations
11 through a major agreement with the Government of
12 Manitoba, which gives us significant synergy and
13 savings.

14 We don't purchase the software through
15 our hardware purchases. We don't purchase those at
16 the same time. Those are done separately.

17 DR. BYRON WILLIAMS: I wonder if we
18 can turn to the part 4, benchmarking, page 37.

19

20 (BRIEF PAUSE)

21

22 DR. BYRON WILLIAMS: So you'll see a
23 reference here, sir, line 5 and 6, from MPI again to
24 both outsourced and maintenance expenses are
25 significant -- significantly higher than the peer

1 group average.

2 Do you see that reference, sir?

3 MR. LAWRENCE LAZARKO: I do.

4 DR. BYRON WILLIAMS: And lines 10 to
5 11, you'll see a suggestion that MPI is continually to
6 -- continue to actively manage vendors and spending to
7 maximize value, correct?

8 MR. LAWRENCE LAZARKO: Correct.

9 DR. BYRON WILLIAMS: What does that
10 mean?

11 MR. LAWRENCE LAZARKO: As part of our
12 major agreements, we have a vendor management team
13 that manages the IT major agreements. They conduct a
14 regular process to review spend with our vendors. As
15 part of contract renewal, we work with the vendors to
16 ensure we are including only the things we require
17 going forward, to negotiate discounts, price breaks,
18 et cetera.

19 We also act to leverage the procurement
20 processes, the request for -- proposal request for a
21 standing offer to ensure we get the best value from a
22 variety of different providers, including our existing
23 providers.

24 So those would be several techniques we
25 use. I think I mentioned it earlier, but I just want

1 to reiterate, monitoring and reviewing spend. So we
2 receive an invoice for five (5) widgets of work,
3 confirming that five (5) widgets was conducted, and to
4 our satisfaction, and to an agreed-to price.

5 DR. BYRON WILLIAMS: Turning to page
6 36 of 50, and lines 2 through 6 specifically, you'll
7 see again, sir, a -- a reference to infrastructure and
8 operation spending being higher than the peer group
9 average, sir?

10 MR. LAWRENCE LAZARKO: I do.

11 DR. BYRON WILLIAMS: And that the
12 component is comprised of labour and additional third-
13 party services, namely, IBM, who is a top-tier
14 provider of expertise and facilities, agreed?

15 MR. LAWRENCE LAZARKO: Agreed.

16 DR. BYRON WILLIAMS: And there's a
17 suggestion that MPI will continue to partner with IBM
18 to optimize costs within this area?

19 MR. LAWRENCE LAZARKO: Yes.

20 DR. BYRON WILLIAMS: And what does
21 that mean, sir?

22 MR. LAWRENCE LAZARKO: As part of our
23 ongoing agreement with IBM, we work with them on a
24 regular basis to ensure that the services we are
25 receiving are what we need, and that we are not

1 consuming extra resources in terms of number of
2 servers, number -- amount of storage, any kind of
3 additional resources or third-party services that we
4 don't need, don't actively get value from, so again
5 working with them on a regular basis, monthly, to make
6 sure that our spend is providing the optimal value.

7 DR. BYRON WILLIAMS: Reading between
8 the lines of the Gartner commentary, sir, and the MPI
9 commentary at page 36 and 37, is there any suggestion
10 that the arrangement with IBAM is improvident?

11 MR. LAWRENCE LAZARKO: Can you restate
12 the question, or define "improvident"?

13 DR. BYRON WILLIAMS: Well, let me try
14 it a different way.

15 Does MPI have concerns that it is not
16 optimizing the value for services it's getting in
17 their infrastructure and operations by virtue of its
18 arrangement with IBAM?

19

20 (BRIEF PAUSE)

21

22 MR. LAWRENCE LAZARKO: One of the
23 activities that we are working on this year is a -- a
24 benchmark for the IBAM agreement.

25 We have an independent third party that

1 we've engaged to review their contracting and compare
2 it to peers, specifically IBM, (sic) and this is
3 something that's still in progress right now. The
4 initial review is favourable, and we would be open to
5 file that as part of our evidence in GRA 2021.

6 DR. BYRON WILLIAMS: And one of the --
7 and thank you for that, sir. And one (1) of the
8 issues of course is whether the -- the trade-off to
9 reduce volatility is in the long run costing MPI too
10 much; that's the potential concern that Gartner is
11 raising.

12 MR. LAWRENCE LAZARKO: I just want to
13 clarify one (1) earlier section on the scorecard, page
14 13.

15 DR. BYRON WILLIAMS: Go ahead.

16 MR. LAWRENCE LAZARKO: One of the cha
17 -- sorry. One (1) of the challenges we have for the
18 scorecard as defined by Gartner is how it manages
19 capital within a specific infa -- infrastructure and
20 op -- sorry, infrastructure and operation scorecard.

21 What occurs is the MPI model, we
22 purchase the software as an expense or the service as
23 an expense, and then we have ongoing costs per year.
24 What Gartner is talking about in their note about
25 lower maintenance costs from bundling is the

1 opportunity for an individual or company to purchase
2 that service up-front, so you buy the software and you
3 buy five (5) years of maintenance.

4 The challenge we run into is, if you do
5 that and you do it on a capital model, then you will
6 see no recurring expense. So a vendor could purchase
7 its new servers and the appropriate software that runs
8 on those servers and have a significant one-time
9 charge but no ongoing recurring charge.

10 So if you take a look at the numbers on
11 page -- sorry --

12 DR. BYRON WILLIAMS: 13?

13 MR. LAWRENCE LAZARKO: Page 13, thank
14 you. Locate the peer average, they have a cost of
15 1.14 million. There is -- again, we have one (1)
16 package in infrastructure and operations to support
17 your legacy systems that in this financial year is
18 worth one -- more than 1 million.

19 So it's a combination of two (2)
20 things. It's a combination of a legacy systems and
21 including some things that others may not include.
22 We're fixing that with NOVA.

23 And the second thing is including
24 expenses, and the way we're recoding expenses, which
25 is different from the model some of our peers follow,

1 which is a capital model with a one-time up-front
2 purchase.

3 Those are -- those are key reasons that
4 separate us from the peer group I just wanted to
5 clarify.

6 DR. BYRON WILLIAMS: Okay. And your
7 suggestion is they don't depreciate those capital
8 costs over time?

9 MR. LAWRENCE LAZARKO: I'm suggesting
10 they do that, but the way the Gartner model is
11 constructed is they don't record and report on the
12 specific information here. They do in the overall IT
13 score, but not in the IT operations. It's an area
14 we've been in discussions with Gartner on for years.

15 DR. BYRON WILLIAMS: Thank you for
16 that.

17 Mr. Bunko, earlier this afternoon you
18 stated something to the effect that we tried to
19 modernize our systems; it was very expensive.

20 Do you recall making a statement to --
21 to that affect, sir?

22 MR. BRAD BUNKO: I recall a comment
23 about trying to create online capabilities on our
24 existing systems, and that that was very expensive.

25 DR. BYRON WILLIAMS: Yes, thank you.

1 And I was just going off my notes.

2 So I wonder if we can -- and, sir, were
3 you referring specifically to the -- the costs
4 associated associate -- associated with the Customer
5 Claims Reporting System?

6 MR. BRAD BUNKO: No, I was not.

7 DR. BYRON WILLIAMS: Well, let me go
8 there. Just in -- for a historical reminder, sir, I
9 wonder if we can pull up CAC-MPI 1-54 from last year's
10 General Rate Application, and specifically the table
11 at Figure 1.

12

13 (BRIEF PAUSE)

14

15 DR. BYRON WILLIAMS: And so this --
16 this figure, sir, would represent the deferred
17 development cost write-offs in the '17-18 year, being
18 in the range of \$20.2 million. Agreed?

19 MR. BRAD BUNKO: Agreed.

20 DR. BYRON WILLIAMS: And of that,
21 about 15.6 would be related to customer claims
22 reporting. Agreed?

23 MR. BRAD BUNKO: Agreed.

24 DR. BYRON WILLIAMS: And just quickly
25 if we can go to PUB-MPI 1-74, and that page 2 of 2.

1 Thank you.

2 The impairment in 2018-2019, I'll
3 suggest to you, is in the range of 2.6 to \$2.7
4 million, sir?

5 MR. BRAD BUNKO: Correct.

6 DR. BYRON WILLIAMS: With about 2.6 of
7 that -- 2.6 million of that again related to the
8 Customer Claims Reporting System, or Customer Self-
9 Serve Release 3?

10 MR. BRAD BUNKO: Two (2) different
11 things. So Customer Claims Reporting System is very
12 different than Customer Self-Service.

13 DR. BYRON WILLIAMS: Thank you for
14 that clarification.

15 MR. BRAD BUNKO: My comment earlier as
16 to where we've tried to create online services was the
17 customer self-service initiative.

18 DR. BYRON WILLIAMS: Okay. Thank you.
19 That helps to clarify it.

20 And Mr. Remillard, I will not go back
21 to the Gart -- Gartner review of -- of -- of physical
22 damage re-engineering, if that's what it -- it was
23 called. I can't remember anymore.

24 MR. JOHN REMILLARD: Physical damage
25 re-engineering, correct.

1 DR. BYRON WILLIAMS: But in fairness
2 to the Corporation, included in the negative net
3 present value of \$49.x.7 million, there -- part of
4 that was a significant write-off related to the
5 Customer Claims Reporting System. Agreed?

6 MR. JOHN REMILLARD: Yes, it was.

7 DR. BYRON WILLIAMS: At Value
8 Management .1.6, there is a reference, page 35 and 36
9 -- there's a reference to the credit card strategy.

10 MR. JOHN REMILLARD: Yes, there is.

11 DR. BYRON WILLIAMS: And, Mr.
12 Remillard, I'm not going to get into the -- the cost
13 benefit --

14 MR. JOHN REMILLARD: M-hm.

15 DR. BYRON WILLIAMS: -- in terms of
16 the credit card strategy, but the offshoot of what was
17 concluded is that the -- the monthly credit card
18 preauthorization payment option was eliminated. Would
19 that be fair?

20 MR. JOHN REMILLARD: That is correct.
21 It's being eliminated over the course of the year as
22 customers that renew their Autopac between now --
23 sorry, between June of 2019 and June of 2020.

24 DR. BYRON WILLIAMS: And that
25 elimination of that monthly option affected about 10

1 percent of the customers of Manitoba Public Insurance?

2 MR. JOHN REMILLARD: That is correct.

3 DR. BYRON WILLIAMS: And you'll see on
4 lines 13 to 14, that Manitoba Public Insurance engaged
5 in a discussion with IBAM, being the Insurance Brokers
6 Association of Manitoba, and the Government of
7 Manitoba in terms of the business direction to be
8 taken, sir?

9 MR. JOHN REMILLARD: That is correct.

10 DR. BYRON WILLIAMS: And after that
11 engagement, that's when the decision to eliminate that
12 option for -- for consumers was -- was made?

13 MR. JOHN REMILLARD: Yes. It was made
14 -- made on the basis from a value management
15 perspective. If you look above regarding the options
16 that were pursued, we did evaluate the Moneris
17 Tokenization solution.

18 What that means is that we would have
19 been able to retain that service versus the --
20 eliminating that service, which was a lower value
21 proposition to implement with a higher return.

22 It was a difficult decision to make
23 from a customer service perspective, but in -- in
24 putting the value of Manitobans and security of their
25 credit card information at -- at the forefront, we

1 believe it is the right solution and decision going
2 forward.

3 DR. BYRON WILLIAMS: So there's a
4 reference to engagement with the brokers and to the
5 province. Can you outline the type of engagement that
6 was undertaken with consumers directly, if at all?

7 MR. JOHN REMILLARD: With consumers?

8 DR. BYRON WILLIAMS: Yes.

9 MR. JOHN REMILLARD: So meaning
10 Manitobans? Good question. To that -- to that
11 effect, we'll acknowledge that we did not directly go
12 to customers to seek their input as to how they would
13 feel about eliminating this option.

14 DR. BYRON WILLIAMS: And can you share
15 with us how Manitoba Public Insurance is actually
16 communicating the fact to these affected consumers
17 that their -- the option that they've chosen is being
18 eliminated?

19 MR. JOHN REMILLARD: Certainly. As
20 part of their annual reassessment or renewal letter
21 that they receive with their Autopac insurance
22 statement, we've included a -- a brochure which
23 basically states that this service has been eliminated
24 and that they do need to take action, meaning a visit
25 to their Autopac agent or their nearest service centre

1 to transition their existing financing agreement from
2 a credit card service to bank account, and -- and, in
3 essence, insisting that they do so before their
4 renewal date.

5 DR. BYRON WILLIAMS: So Manitoba
6 Public Insurance insists this will no doubt come as a
7 shock to you, but it is conceivable, I'll suggest to
8 you, that not all consumers read their notices from
9 Manitoba Public Insurance.

10 MR. JOHN REMILLARD: That is a fair
11 statement, and that is something that we've been
12 monitoring since June when we implemented this, sir.
13 And we anticipated that ten (10) percent of Manitobans
14 would, in essence, not pay -- not pay attention to --
15 to the leaflet.

16 What is happening there is that the --
17 our Autopac agents or the customers respective Autopac
18 agent does receive a notification, meaning a request
19 for service to reach out for their -- to reach out to
20 their customer and basically request that they come in
21 prior to their reassessment.

22 So that is the secondary line of
23 defence from a customer communication perspective
24 which is, in essence, a phone call to -- to a given
25 customer.

1 DR. BYRON WILLIAMS: And if the
2 customer renews directly with Manitoba Public
3 Insurance rather than a broker, presumably Manitoba
4 Public Insurance will reach out to those customers?

5 MR. JOHN REMILLARD: That is correct.
6 Our -- we have a -- a service centre, I'll say it,
7 within our operations that deals with customers as
8 well. Yes.

9 DR. BYRON WILLIAMS: Madam Chair, I'm
10 not sure what time we're supposed to finish today,
11 whether it's 4:00 or 4:30. I've got a bit to go. I'm
12 at the discretion of the Board.

13 THE CHAIRPERSON: Can you tell me how
14 much time "a bit" is going to take?

15 DR. BYRON WILLIAMS: Given the
16 experience of Ms. -- PUB counsel and my colleague, I'm
17 reluctant to, but I'm going to guess twenty (20)
18 minutes?

19

20 (BRIEF PAUSE)

21

22 THE CHAIRPERSON: Mr. Williams, why
23 don't you carry on and complete your public
24 cross-examination, and then we'll start in the morning
25 with the CSI.

1 CONTINUED BY DR. BYRON WILLIAMS:

2 DR. BYRON WILLIAMS: And I'm going to
3 be talking about Legacy System Modernization or NOVA,
4 as it's now branded. And again, I'm just going to
5 reiterate to MPI that here -- if I am trenching upon
6 confidential information will defer the conversation
7 to tomorrow.

8 But Manitoba Public Insurance has made
9 the decision to approach Legacy System Modernization
10 in delivering in the same project property and
11 casualty system changes as well as driver and vehicle
12 licencing system changes. Agreed?

13 MR. GARY DESSLER: Yes, that's
14 correct.

15 DR. BYRON WILLIAMS: And perhaps this
16 is a truism, sir, but would it be fair to suggest that
17 there may be more complexity in delivering the
18 two (2) -- the two (2) projects than the one (1)?

19 MR. GARY DESSLER: Throughout the year
20 when we did the legacy modernization assessment, you
21 know, that was a topic that we talked about often.

22 And maybe I'll just kind of point out
23 that, I mean, we're looking at replacing our AOL
24 insurance package. But it also includes the driver
25 and vehicle administration component as well.

1 So if we're going to be turning off
2 AOL, we need a place to put the driver and -- and
3 licencing components. Right? And that kind of drove
4 us to installing and looking at an insurance package
5 in parallel with a driver and vehicle system.

6 We felt it was riskier than going
7 inside of AOL and disabling half of AOL and the
8 complexities around the batch. Our AOL environment
9 is, you know -- you know, very old. The batch
10 component is very complex. And we felt that it was
11 riskier to handle that in -- in separate components
12 which is why we felt that we could combine it together
13 and end up with one (1) solution.

14 DR. BYRON WILLIAMS: Okay. And we'll
15 canvass some of this tomorrow as well, sir. Going as
16 PUB counsel did to CAC-MPI-1-55(c) and the question at
17 the bottom of page 2 -- or the answer at the bottom of
18 page 2 of 2, it is fair to suggest that it is not
19 clear at this point in time whether MPI or the
20 province will be paying for the DVA improvements in
21 the range of \$36.6 million? Is that fair?

22 MR. GARY DESSLER: Yes. We have
23 not -- I mean we're still in discussions with the
24 government about that.

25 DR. BYRON WILLIAMS: Recognizing that

1 the proposed capital management plan proposes
2 transfers from Extension to Basic, is Manitoba Public
3 Insurance in the position as of right now to offer the
4 assurance that there will be no money flowing from
5 Extension towards -- the Extension line of business to
6 the DVA project?

7

8 (BRIEF PAUSE)

9

10 MR. GARY DESSLER: Yes. I would say
11 funding is undecided at this time.

12 DR. BYRON WILLIAMS: Recognizing that
13 funding is undecided, MPI is not in the position to
14 confirm that there'll be no money flowing from
15 Extension?

16 MR. GARY DESSLER: Sorry. Can you --
17 just -- I'm having a problem just understanding kind
18 of the --

19 DR. BYRON WILLIAMS: Can Manitoba
20 Public Insurance indicate at this point in time
21 whether there is the possibility of money flowing from
22 Extension to the 36.6 million in DVA?

23

24 (BRIEF PAUSE)

25

1 MR. GARY DESSLER: Yeah. Sorry.
2 Just -- what we're trying to say is we haven't decided
3 how -- if the funding's going to come from Extension
4 or not. That's still undetermined at this point.

5 DR. BYRON WILLIAMS: Thank you. I'm
6 not sure if I gave you advance notice of this,
7 Kristen, or not, and for that, I apologize. But I'm
8 referring the panel to part 4 IT Appendix 5 Legacy
9 System Modernization, page 4 of 5 -- 4 and 5.

10 And, sir, you probably know this off by
11 heart. I don't want to -- maybe perhaps we can go up
12 to the top of the page. Sorry.

13 What I'm trying to get at, sir, is not
14 the one (1) time costs. And so perhaps, Kristen, go
15 on to the next page. My apologies.

16 I'm trying to get not at the one (1)
17 time cost --

18 MR. GARY DESSLER: Okay.

19 DR. BYRON WILLIAMS: -- but at the
20 recurring costs.

21 MR. GARY DESSLER: Sure. Recurring
22 costs. Okay.

23 DR. BYRON WILLIAMS: And the current
24 estimate, sir, I'll suggest to you subject to check,
25 is 21.3 million annually?

1 MR. GARY DESSLER: That's correct.

2 DR. BYRON WILLIAMS: And of that
3 7.4 million will be associated -- its estimate with
4 the driver and vehicle administration side of the
5 equation?

6 MR. GARY DESSLER: Yes.

7 DR. BYRON WILLIAMS: And in terms of
8 the benefits of -- and if we can just scroll down the
9 page, and thank you for your assistance, Kristen.

10 Directing your attention to line 13,
11 the total financial benefits reach an annual average
12 of 41.7 million after the program starts -- seven (7)
13 years after the program starts, sir? Is that correct?

14 MR. GARY DESSLER: That's correct.

15 DR. BYRON WILLIAMS: Of that, the
16 total benefits for the DVA solution are estimated at
17 8.5 million?

18 MR. GARY DESSLER: Correct.

19 DR. BYRON WILLIAMS: When the business
20 case for the legacy -- and again, if I'm getting into
21 something that's confidential --

22 MR. GARY DESSLER: Sure.

23 DR. BYRON WILLIAMS: -- you'll defer
24 me to tomorrow -- when one looks at the business case
25 for the Legacy System Modernization project, there's

1 no disaggregation of -- between the insurance side and
2 the driver and vehicle administration side. It's
3 taken as a package, sir.

4 MR. GARY DESSLER: Yes, that's
5 correct. Since there's so many dependencies between
6 both sides of the business, we -- we can't -- we don't
7 have a -- well, if we just do insurance, or if we just
8 do DVA. Right. It's all -- it's in an entirety.

9 So if you look at AOL, AOL itself
10 services both of the driver and vehicle component and
11 the insurance piece. That's the technology that we're
12 looking at replacing. So we need two (2) different
13 packages to support those different lines of business.

14 DR. BYRON WILLIAMS: Okay. And I'll
15 come to a bit more of this tomorrow. If we can go to
16 CAC-2-24 page 3 of 3.

17 And, Mr. Dessler, ICBC has conducted a
18 project that is somewhat analogous to that of Manitoba
19 Public Insurance in terms of Legacy System
20 Modernization? Agreed?

21 MR. GARY DESSLER: Yes, that's
22 correct.

23 DR. BYRON WILLIAMS: And they hosted a
24 one (1) day workshop with certain Manitoba Public
25 Insurance officials to examine the lessons learned.

1 Is that correct, sir?

2 MR. GARY DESSLER: Yes, that's
3 correct.

4 DR. BYRON WILLIAMS: And among the
5 attendees were Mr. Graham, yourself, and Mr. Bunko?
6 Agreed?

7 MR. GARY DESSLER: That's correct.

8 DR. BYRON WILLIAMS: And in terms of
9 the other business stakeholders within Manitoba Public
10 Insurance who might be involved with this, whether
11 within MPI or otherwise, did anyone else attend, or
12 was it more at the executive level, sir?

13 MR. GARY DESSLER: It was just the
14 three (3) of us from MPI for this session with ICBC.

15 DR. BYRON WILLIAMS: Okay. And if we
16 go to the third bullet on page 2 of 24 -- oh, it's
17 right there. That's -- sorry, Kristen. Expect chaos
18 when going live.

19 MR. GARY DESSLER: Yes.

20 DR. BYRON WILLIAMS: You can
21 understand why that might make my clients feel a
22 little uncomfortable --

23 MR. GARY DESSLER: Sure.

24 DR. BYRON WILLIAMS: -- as I'm sure
25 MPI.

1 MR. GARY DESSLER: Yeah.

2 DR. BYRON WILLIAMS: I wonder if you
3 can expand on that --

4 MR. GARY DESSLER: Sure.

5 DR. BYRON WILLIAMS: -- to the extent
6 that it's not confidential for ICBC.

7 MR. GARY DESSLER: That's correct. So
8 what ICBC was saying is, you know, when they
9 implemented their systems and rolled it out into the
10 field, you know, things got a little bumpy. Right?
11 They needed to have proper support. Right?

12 So what they -- what they're kind of
13 warning us is don't expect everything to kind of run
14 through, you know, very smooth. Make sure you got
15 proper controls; you've got people from the projects
16 out in the field helping, you know, the -- the front
17 staff. Expect that, you know, you're rolling a brand
18 new process and so on, and -- and there's going to be
19 some challenges in doing that. So it -- you know,
20 that's what -- what they were warning us about.

21 DR. BYRON WILLIAMS: And sir, there's
22 a reference to increasing staffing levels where
23 possible.

24 MR. GARY DESSLER: Sure.

25 DR. BYRON WILLIAMS: I wonder if you

1 can expand upon what that cryptic note means.

2 MR. GARY DESSLER: Sure. What they
3 were saying is, you know, first time you're putting
4 new systems in, people haven't learned it yet.
5 They're still learning how to use the new systems, so
6 don't be looking at, you know, cutting staff
7 immediately, making sure that while you're supporting
8 the old technology, you're also bringing in people to
9 support the new technology. So make sure that you
10 have the right mou -- amount of people to support the
11 new systems as they go live.

12 DR. BYRON WILLIAMS: And just so I
13 understand, when you're talking about staff, are you
14 referring to IT staff or operational staff or -- or
15 both, sir --

16 MR. GARY DESSLER: It could --

17 DR. BYRON WILLIAMS: -- or were they
18 --

19 MR. GARY DESSLER: Sorry. It -- it --
20 it could be both.

21 DR. BYRON WILLIAMS: Just -- and I
22 will meet my time commitment with time to spare. Just
23 directing your attention to CAC-MPI-2-12 and to the
24 actual question on page 1 of 2. Legacy system
25 modernization or NOVA is going to be, I'll suggest to

1 you, a transformative experience for Manitoba Public
2 Insurance, agreed?

3 MR. GARY DESSLER: Yes, it's going to
4 have a significant impact on us.

5 DR. BYRON WILLIAMS: And at times of
6 acute transformation, frontline staff often experience
7 stresses in terms of that transition. Would that be
8 fair, sir?

9 MR. GARY DESSLER: Yes. I mean, I'm
10 not an expert in organizational change, but we do
11 expect that, you know, staff in the front lines are
12 going to feel some stress, and they're going to be
13 learning new technology.

14 DR. BYRON WILLIAMS: And you'll see
15 the -- our clients asked whether MPI had recently
16 conducted an employee opinion survey to assess the
17 readiness and receptibil -- bil -- receptivity of MPI
18 employees to embark on another major IT project. You
19 see that, sir?

20 MR. GARY DESSLER: Yes.

21 DR. BYRON WILLIAMS: And then the
22 question goes on. On the response on page 2 of 2 --
23 I'll let you take a quick look at it. But what I --
24 what I don't see there, sir, and you'll correct me if
25 I'm wrong, is an answer to whether or not there was an

1 employee survey undertaken in -- in preparation for
2 this transformative event. And can you respond to
3 that question, sir?

4 MR. GARY DESSLER: Let me check.

5

6 (BRIEF PAUSE)

7

8 MR. GARY DESSLER: At this point, we
9 haven't -- we have not performed an employee survey,
10 but we do plan on doing it as we move forward and
11 engaging other stakeholders as well.

12 DR. BYRON WILLIAMS: And what would be
13 the purpose of that survey, sir?

14 MR. JOHN REMILLARD: I can respond to
15 that, as it's with respect to NOVA moving forward. As
16 Mr. Dessler indicated, we're just starting to ap --
17 apply organizational change management practices or
18 the discipline to -- to the program. As -- as recent
19 as last week, we have started our stakeholder
20 analysis. What I mean by that is preparing for how
21 ready are we from a leadership perspective, meaning
22 how is everybody feeling from -- in a leadership
23 capacity.

24 How are our -- and then we're going to
25 be engaging our stakeholders, so it would be exte --

1 external stakeholders that are key to the -- to the
2 program. So on that note, we did a stakeholder
3 analysis to -- to assess where on a continuum all of
4 our existing stakeholders rel -- would apply or how
5 would they be impacted by -- by NOVA.

6 And more importantly, and I -- and I
7 4:14:16 want to say lastly, more importantly, or --
8 from an employee perspective, there's going to be an
9 extensive readiness program applied, and this will be
10 gauged all along the program going forward.

11 How will that occur? By, as Mr.
12 Dessler briefly indicated, in essence, feeling the
13 pulse of -- of an MPI employee and -- and our
14 stakeholders as we -- as we go forward. How are they
15 feeling? And are they feeling prepared?

16 Operational readiness, as far as our
17 implementations going forward, will be a critical
18 piece from a risk mitigation perspective. And
19 ultimately, when we look at the governance that --
20 that's been established for Project NOVA, I myself or
21 no business leader can actually put that stake in the
22 sand that we're -- that we're ready to go. It'll be
23 through data of the feedback of our stakeholders, and
24 ultimately, our board of directors has reserved that
25 right to, in essence, prove our go-lives going

1 forward.

2 So to maybe close it out, Mr. Williams,
3 is that yes, employees will be engaged, though it'll
4 be through questionnaires and -- and through a
5 organized change management approach and involving
6 them in the process. And what I mean by that is
7 employees will be involved in establishing our -- our
8 go-forward processes.

9 And more importantly, as we build out
10 the -- the software, be it in the agile method that
11 Mr. Bunko's been referring to in his testimony today,
12 we will have a model office. That model office --
13 employees will be able to drop in. What I mean by
14 that is they'll be able to, in essence, try out the
15 software before we're live.

16 All of these things, we believe, will
17 put us in a better position to be ready, but as even
18 Mr. Graham stated in his op -- opening testimony, this
19 is one of the largest things that we will be
20 undertaking. It is once in a career, once in a
21 lifetime type of transformation, and yes, there will
22 be some pain points, but we are doing our best to --
23 to manage those going forward. Hopefully, that
24 answered your question.

25 DR. BYRON WILLIAMS: Thank you for

1 that answer, and Madam Chair, four (4) minutes under
2 schedule. I don't promise to -- to do that. I do
3 thank the MPI panel for its time and the Board for
4 giving me a bit of extra time just to finish off.
5 Thank you.

6 THE CHAIRPERSON: Thank you very much,
7 Mr. Williams.

8 Do you have a question?

9 BOARD MEMBER GABOR: I think I'll
10 direct this to Mr. Bunko. Mr. Bunko -- Kristen, if
11 you could pull up the presentation exhibit -- sorry,
12 Exhibit 60, page 16.

13 The governance model with the creation
14 of the technology committee and this chees -- chief
15 transformation officer and the -- the linkages there,
16 I assume this is coming as a result of the agile
17 model.

18 MR. BRAD BUNKO: I believe that it has
19 existed in waterfall type projects as well, when it
20 becomes this scale of an initiative, that the board
21 would want to have oversight more than a normal
22 initiative.

23 BOARD MEMBER GABOR: But you haven't
24 had -- MPI hasn't had this model before.

25 MR. BRAD BUNKO: No, but I would

1 suggest that it is more because of the -- the scale --

2 BOARD MEMBER GABOR: Scale, okay.

3 MR. BRAD BUNKO: -- as opposed to the
4 agile.

5 BOARD MEMBER GABOR: And -- and in
6 this chart or diagram, where does the external program
7 governance vendor fit in?

8 MR. BRAD BUNKO: They will interact
9 4:17:53 or will certainly provide reports to the
10 technology committee. They will interact with the
11 CEO, the chief transformation officer, the program
12 director. They will be interviewing people at the
13 steering committee levels to ensure that that
14 committee is functional. They will also be getting
15 artifacts out of the project to ensure that things are
16 being well documented and everything is making sense.

17 They will interact as well with value
18 management, for an example. Any of the key areas
19 where they believe that governance is an important
20 aspect of their oversight, they have free reins to
21 reach out and to get information from those groups.

22 BOARD MEMBER GABOR: And have you
23 spoken -- sorry, did you have something, Mr. 4:18:45
24 --

25 MR. JOHN REMILLARD: I'm not sure if

1 it's going -- would help, Mr. Gabor, but Kristen,
2 would you be able to pull up Part 4, the IT strategy,
3 Appendix 5, page 9, and it may help. Five dash five
4 (5-5).

5 Sorry, Mr. 4:19:03 Gabor, if you had
6 another question on that matter, but --

7 BOARD MEMBER GABOR: Just go ahead,
8 Mr. Remillard.

9 MR. JOHN REMILLARD: Well, I just
10 wanted to -- to maybe add to -- to Mr. Bunko's
11 testimony this 4:19:14 afternoon, and maybe this
12 picture does present a better model in that,
13 ultimately, you can see the direct line, meaning it's
14 a solid line. It's directly to the board and
15 technology committee.

16 The dotted line means that there's a
17 relationship. They're working with our executive
18 steering committee, which are our five (5) senior
19 business leaders that are part of the program, as well
20 as myself and all of our executive team, through the
21 inherent governance there. But the direct line is --
22 is -- what's important here is that it's their direct
23 relationship to the board, sir.

24 BOARD MEMBER GABOR: Okay, Mr.
25 Remillard. Have you talked to other corporations that

1 have followed this -- this structure where you have an
2 independent governance advisor of external people?

3 MR. JOHN REMILLARD: There were
4 reference checks performed as part of this procurement
5 to assess both the model and, as well, the
6 capabilities of the -- the vendors that bid, sir.

7 BOARD MEMBER GABOR: Okay. And do you
8 see any downside to this?

9 MR. JOHN REMILLARD: Downside? No.
10 Personally, in -- in my role going forward, I see it
11 as a -- an independent lens of assurances that we are
12 on the right track. And nobody's perfect, and what I
13 mean by that is that we've got an outside lens that
14 has both insurance industry experience as well as vast
15 project management experience and risk management
16 experience, and that's the type of individuals that --
17 that we're dealing with here in this group of five
18 (5).

19 They will be coming in, reviewing --
20 I'll -- I'll call it what we deem -- deem to be our
21 current state, what we're focussed on, and what we
22 deem to be, more importantly, the project risks that
23 we're trying to mitigate and what is our mitigation
24 approach. And they'll be providing advice to -- to
25 the board, whether or not, 4:21:11 'A', we're on top

1 of our game regarding those risks, whether they see
2 inherent risks that we're not aware of.

3 And that feedback loop will give us
4 information to take management actions going forward,
5 and I do believe it'll make us more successful with
6 Project NOVA, therefore.

7 BOARD MEMBER GABOR: Okay.

8 MR. GARY DESSLER: I'd like to -- if I
9 could just jump in, I'd also like to add that our --
10 one (1) of the assessment vendors, Avasant, had
11 recommended that we adopt an independent program
12 advisor as well, and it was something similar that
13 ICBC had during their transformation.

14 BOARD MEMBER GABOR: Thank you.

15 MR. BRAD BUNKO: Potential downside is
16 the amount of time that they are drawing from the
17 resources that are trying to do the work. We've
18 recognized that as a potential risk, and we believe we
19 worked out the right kind of level of interaction
20 between those groups so they are not onerous on the
21 project.

22 BOARD MEMBER GABOR: Okay. I've got a
23 question about the budget. Is -- Mr. Bunko, is it you
24 --

25 MR. BRAD BUNKO: I'll give it to Gary.

1 BOARD MEMBER GABOR: -- on NOVA? A
2 hundred and six million dollar budget, 25 percent
3 contingency.

4 MR. GARY DESSLER: Yes.

5 BOARD MEMBER GABOR: That's a really
6 high contingency.

7 MR. GARY DESSLER: It is, yes.

8 BOARD MEMBER GABOR: Now, I would -- I
9 would propose that there are two (2) reasons to have
10 this high a contingency: number one (1) is the risk of
11 the project, or number two (2), that you're actually
12 at a stage where you're just giving your best guess
13 because you don't have number -- you don't have
14 numbers -- your final numbers coming in. Now, is it
15 either of those or both of those or -- I mean, I've
16 worked on a lot of technology projects, and if we went
17 back with 25 percent, I know where I -- you know,
18 where I would have been.

19 MR. GARY DESSLER: Right. So yes, and
20 I think the 25 percent contingency is really a
21 function of where we at -- of where we are at in the -
22 - in the process, so we have yet to select specific
23 pieces of technology. So, you know, we -- we have
24 input from two (2) assessment vendors that helped us
25 define that budget, but we have to go to the market

1 and, you know, secure specific contracts before we can
2 finalize that number --

3 BOARD MEMBER GABOR: So your -- your
4 final number may be part of that 25 percent, the --
5 I'll just use a round number, twenty-five thou -- \$25
6 million, or it could be higher. Your final number
7 could be higher depending on what the vendors --

8 MR. GARY DESSLER: There -

9 BOARD MEMBER GABOR: -- come in with
10 as prices.

11 MR. GARY DESSLER: I mean, there is
12 risk to that hundred and six point eight (106.8). You
13 know, we -- we'll have to see what the vendors propose
14 both from a software and a professional services.

15 We've tried to, you know, factor in
16 expertise from externals. We had, you know, services
17 from two (2) assessment vendors throughout the legacy
18 modernization assessment to help us finalize the
19 numbers. We also had a request for information, where
20 we invited vendors in this marketplace in 2018 to
21 come, and we've looked at some indicative pricing that
22 they provided there. We used that to shape our
23 ultimate budget of a hundred and six point eight
24 (106.8). If --

25 MR. JOHN REMILLARD: Sorry --

1 4:24:10 BOARD MEMBER GABOR: Mr.

2 Remillard --

3 MR. JOHN REMILLARD: -- were you done,

4 Gary?

5 MR. GARY DESSLER: Yeah.

6 MR. JOHN REMILLARD: I just want to
7 add one (1) important thing from a -- a governance
8 perspective regarding the cont -- 21.4 contingency. I
9 understand your concern and your point. One (1) of
10 the things that our technology committee has put in
11 place regarding our governance is that we don't have
12 the authority to -- to spend that, sir. And so
13 ultimately, what's been put in place is that the CEO,
14 Mr. Graham, has a 5 percent leeway utilization through
15 the -- the course of the program in its entirety to
16 use contingency. Everything else must be approved by
17 the board of directors directly --

18 BOARD MEMBER GABOR: But I assume --

19 MR. JOHN REMILLARD: -- if we did draw
20 on that.

21 BOARD MEMBER GABOR: But I assume at
22 some point you will have a firmer number with a much
23 smaller contingency?

24 MR. JOHN REMILLARD: That would be the
25 goal, yes. But I just wanted to add the --

1 BOARD MEMBER GABOR: Sure.

2 MR. JOHN REMILLARD: -- governance
3 point, yeah.

4 BOARD MEMBER GABOR: When do you think
5 you will have that number with the smaller
6 contingency?

7 MR. JOHN REMILLARD: As I stated
8 earlier, based on where we -- we're at with the
9 procurement processes, I would believe that, just
10 thinking in my head for -- September of next year, so
11 going into the -- the Hearings next year we should
12 have a very good idea.

13 And the reason I say that is our -- our
14 last re -- request for proposal for the property and
15 casualty system integrator will be due and we'll be
16 starting to enter -- just enter into negotiations with
17 that vendor at that time.

18 So, we should have decent, indicative
19 pricing. It may not be a final number, but I -- I do
20 believe that the -- the project budget going forward
21 should be firmer at that time, sir.

22 BOARD MEMBER GABOR: Okay. Thank you.
23 Finally, Mr. Bunko, you -- you mentioned that you've
24 had two (2) agile pilot projects. And I got one (1)
25 of them being an online website. I missed the other

1 one (1).

2 MR. BRAD BUNKO: Is our FINEOS
3 upgrade, BI3s --

4 BOARD MEMBER GABOR: Yeah.

5 MR. BRAD BUNKO: -- for bodily injury.

6 BOARD MEMBER GABOR: Can you tell me
7 what the budget was for the online website and for the
8 FINEOS upgrade?

9 MR. BRAD BUNKO: I know the budget for
10 the FINEOS upgrade was in the neighbourhood of \$2
11 million.

12 BOARD MEMBER GABOR: Okay.

13 MR. BRAD BUNKO: Now, I must add that
14 that was our budget when we originally anticipated
15 doing it waterfall as a special initiative.

16 We have since changed that budget
17 amount, the expected budget amount, because we
18 essentially operationalized it. It is the product
19 team that works on that application day in and day out
20 fixing defects that is going to be doing the upgrade.

21 Services that are still needed as part
22 of this upgrade will be from the vendor, FINEOS
23 themselves. And I believe -- let me just get that
24 number confirmed.

25

1 (BRIEF PAUSE)

2

3 MR. BRAD BUNKO: The revised budget
4 will be between five hundred (500) and six hundred
5 thousand dollars (\$600,000).

6 BOARD MEMBER GABOR: And the online
7 website?

8

9 (BRIEF PAUSE)

10

11 MR. BRAD BUNKO: I would say that
12 that's a small initiative. And the budget for that
13 would be between one (1) and two hundred thousand
14 dollars (\$200,000).

15 BOARD MEMBER GABOR: And those are the
16 only agile projects that the Company's done to date?

17 MR. BRAD BUNKO: Correct. We are in
18 the midst of building our AOL agile team, which is --
19 which -- where a lot more changes happen. And we have
20 on the slate some -- much more expensive changes
21 happening, government regulation changes that we need
22 to make and, yes.

23 BOARD MEMBER GABOR: Is there any
24 thought of going to a larger project? I -- I mean,
25 what we have are two (2) projects that are quite

1 small. And you're --

2 MR. BRAD BUNKO: Yes.

3 BOARD MEMBER GABOR: And you're making
4 a big leap of faith to a hundred million dollars,
5 having had experience with two hundred thousand
6 (200,000) and six hundred thousand (600,000).

7 That -- you know, you're putting --
8 you're putting a lot of eggs into the one (1) basket.
9 And I'm just wondering if it's worth mo -- having a
10 pilot project of 5 million or \$10 million and seeing
11 how that works before you -- before you move
12 completely into -- into no agile for NOVA?

13 MR. JOHN REMILLARD: There are a
14 couple components. I hear you loud and clear.

15 BOARD MEMBER GABOR: Yeah.

16

17 (BRIEF PAUSE)

18

19 MR. JOHN REMILLARD: And so, maybe
20 I'll try and address it this way. Agreed, our -- our
21 experience to date is on a smaller scale,
22 acknowledged.

23 However, one (1) thing that we haven't
24 talked about so far in the -- in this process on -- on
25 this panel regarding agile is that we aren't embarking

1 on this journey ourselves, and so -- so that is a big
2 difference.

3 Yes, we are seeking some help via an
4 agile coach. That will be one (1) of the risk
5 mitigation measures that we're taking. On the
6 procurement process for both the driver and vehicle
7 administration and the property and casualty system
8 integrators.

9 We're looking to those vendors to bring
10 -- I'll -- I'll call it the best of breed processes
11 that they have for implementing their technology.

12 In the beginning, we envision that
13 these integrators will be dri -- I'll -- I don't want
14 to say driving the process. Their resources will be a
15 larger portion of the overall team.

16 Yes, there will be some MPI work that
17 will be happening in parallel; it will be on a smaller
18 scale. So, I -- I respect the fact that you're --
19 you're trying to contrast the -- very small projects
20 to the hundred million dollar scale.

21 However, when you look at it from an
22 overall spend perspective, and we are dissecting that
23 currently as to what the true MPI spend is, the system
24 integrators will be providing the bulk of that
25 expertise, sir, in the beginning and we'll be

1 complementing that team versus driving that team in
2 the beginning.

3 So, I'm not sure if that alleviates
4 some of your concerns or your point, but it is a
5 little different than maybe how it's been expressed so
6 far this afternoon.

7 BOARD MEMBER GABOR: I appreciate
8 that, Mr. Remillard. I -- I guess the question I have
9 for you is do you remember TQM --

10 MR. JOHN REMILLARD: Yes.

11 BOARD MEMBER GABOR: -- total quality
12 management?

13 MR. JOHN REMILLARD: Yes.

14 BOARD MEMBER GABOR: And it was -- it
15 was the phase that people in business process followed
16 and there was an entire industry built around it and
17 for years, everybody followed it. And then -- and the
18 service providers were -- there was a big industry of
19 service providers doing it.

20 And then aft -- I see some nodding in
21 the back row. But after about, I don't know, eight
22 (8) to ten (10) years, people realized that it didn't
23 fit all the models and we don't hear much about it
24 now.

25 MR. JOHN REMILLARD: No, I hear you.

1 BOARD MEMBER GABOR: I'm -- that's the
2 --

3 MR. JOHN REMILLARD: Yes. And --

4 BOARD MEMBER GABOR: You know, I -- I
5 -- it's important to move in this direction. I
6 understand it but I'm just, you know, it's -- it's
7 just a word of caution so.

8 MR. BRAD BUNKO: I just want to add
9 that for Agile it's been in -- kind of in the industry
10 for twenty (20) years, so, it's -- it's pretty main
11 stream. You know, MPI is -- this is an area that MPI
12 is playing catch-up a bit.

13 All of the integrators and all of the
14 product vendors that we've been talking about work in
15 Agile. So what we're trying to do is, you know,
16 increase our knowledge to get in -- you know, to catch
17 up with what the rest of the industry is doing.

18 BOARD MEMBER GABOR: Except there are
19 people who do Agile or a combination of Agile and
20 Waterfall or a hybrid or -- depending on what the
21 project is.

22 MR. BRAD BUNKO: Yes, I -- I agree.

23 BOARD MEMBER GABOR: Thank you, those
24 are my questions. I apologize for being two (2)
25 minutes over.

1 THE CHAIRPERSON: Do you have any
2 questions? Thank you very much. We'll reconvene
3 tomorrow at nine o'clock and start the portion of the
4 cross-examination of the panel on CSI. Thank you.

5

6 (PANEL RETIRES)

7

8 --- Upon adjourning at 4:32 p.m.

9

10 Certified Correct,

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12

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14 _____

15 Donna Whitehouse, Ms.

16

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