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2 YUKON UTILITIES BOARD
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8 YUKON ELECTRIC COMPANY LIMITED
9 2017-2018 GENERAL RATE APPLICATION
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15 P R O C E E D I N G S
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19 Volume 2
20 June 27, 2018
21 Whitehorse, Yukon
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 2 4051-4th Avenue, Whitehorse, Yukon.

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 4 Volume 2

5 June 27, 2018

6 Mr. R. Laking	Chair
7 Mr. A. Fortin	Board Member
Ms. B. King	Board Member
8 Ms. M. Hannam	Board Member
Mr. P. Fitzgerald	Board Member

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11 Ms. C. Henry	Board Staff
Ms. L. Mullen	Board Staff
12 Mr. S. Sharma	Board Staff
Mr. C. Arnott	Board Staff

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15 Mr. D. King	For the City of Whitehorse
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16 Mr. R. Rondeau	For the Utilities Consumers' Group
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17 Mr. J. Maissan	In his own stead
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18 Ms. D. DiPaolo, CSR(A)	Official Court Reporters
19 Ms. A. Jones, CSR(A)	

20
 21 (PROCEEDINGS COMMENCED AT 9:10 A.M.)

22 THE CHAIR: Please be seated. Morning,
 23 everyone. We have a couple of matters that were left
 24 over from yesterday, do we have any report on those at
 25 this time?

1 MR. LANDRY: We do, sir. The one that I was
2 directly involved in was in relation to Mr. Rondeau's
3 reference to a schedule from the AEY compliance filing,
4 and I spoke to Mr. Rondeau, and I provided a couple of
5 copies to the staff of two pages from the compliance
6 filing. So just for the record, it's schedule 1.1 of
7 the ATCO Electric Yukon compliance filing, and
8 schedule 3.1, which is a document that the panel will
9 refer to in hopefully responding to the questions that
10 I understand Mr. Rondeau will have on 1.1.

11 So the concept here, sir, would be to put -- I
12 would suggest that we take that -- I've stapled the
13 copies together over there -- we'll get more for the
14 room -- and just mark that as the next exhibit, and
15 when Mr. Rondeau goes up, he can use it for the
16 purposes of his cross-examination.

17 THE CHAIR: All right. Ms. Bentivegna, will
18 you mark that as an exhibit now?

19 MS. BENTIVEGNA: Certainly.

20 THE CHAIR: Or when --

21 MS. BENTIVEGNA: It might be just as easy to do it
22 now.

23 THE CHAIR: All right. So whose exhibit is it
24 going to be?

25 MS. BENTIVEGNA: It would be YEC, so it would be

1 B-23.

2 MR. LANDRY: I think it would be UCG's exhibit.

3 MS. BENTIVEGNA: UCG's?

4 MR. LANDRY: Yeah, they're introducing it, so.

5 MS. BENTIVEGNA: All right.

6 THE CHAIR: So that would be C-2-9? Would
7 that be it?

8 MS. BENTIVEGNA: Yes, I believe so, but let me
9 just...

10 THE CHAIR: Sorry, C 2-10; right.

11 MR. LANDRY: C 2...

12 THE CHAIR: 10.

13 MR. LANDRY: 10? Okay. Great. Thank you.

14 And, Mr. Chair, we'll make sure that there's plenty of
15 copies. It's just that I was late getting the stapler,
16 so it'll take me a few minutes to put them together,
17 but there's at least three that I've given to staff.

18 THE CHAIR: So we'll give one exhibit number
19 to the package.

20 MR. LANDRY: Yeah.

21 THE CHAIR: Right. Okay. Thank you for that.

22 MR. LANDRY: And, sir, we have some answers to
23 undertakings, so the panel can -- I'll put it over to
24 the panel for that, if that's okay, Mr. Chair.

25 THE CHAIR: Yes, please.

1 EXHIBIT C-2-10 - SCHEDULE 1.1 OF THE
2 ATCO ELECTRIC YUKON COMPLIANCE FILING,
3 AND SCHEDULE 3.1
4

5 UNDERTAKING RESPONSES:
6

7 A. HALL, E. MOLLARD, C. OSLER, G. SRECKOVIC

8 (For Yukon Energy Corporation), previously sworn/affirmed

9 MR. LANDRY: Mr. Mollard.

10 A. MR. MOLLARD: Okay. Good morning. The first
11 undertaking request provide total spending on KGS Group
12 for services provided in relation to updates to the
13 YECSIM model since 2008.

14 The references in the undertaking -- or in the
15 transcript, page 93, line 25, and page 94, line 2. So
16 the response from YEC: (as read)

17 "This information is not available at
18 this time. Updates to the model since
19 its original development in 2008 were
20 generally required as part of specific
21 capital planning projects. YEC
22 financial records do not have the level
23 of detail in electronic form necessary
24 to differentiate the services provided
25 specifically to update the model from

1 other general engineering services
2 related to the project. YEC's director
3 of planning and regulatory affairs
4 estimates the cost of updates since
5 2008 at less than 50,000."

6 The next undertaking referencing IR response JM to
7 YEC-2-2: (as read)

8 "There appears to be an inconsistency
9 between the flow and generation figures
10 in Tables 1 and 2 respectively and the
11 text explanation included in the
12 response."

13 That's from Exhibit B-19, PDF page 42.

14 There was a formula error in the calculation of the
15 long-term average flows in Table 1, and I'll just read
16 the corrected numbers. So for Table 1, hydro facility
17 November to March -- this is the far right column,
18 long-term average flows -- Mayo 19.49, Aishihik 15.67,
19 and Whitehorse 160.87.

20 MR. OSLER: I have one, Mr. Chairman, one
21 undertaking. To Mr. Rondeau at page 111 of the
22 transcript, lines 14 to 19. The question was he had
23 quoted some numbers as to the forward -- the short-term
24 forecast revenue requirement, and the degree to which
25 they led to reductions in the revenue requirements for

1 the test years, and he referenced 2.03 million for 2017
2 and 0.7 million for 2018. And I was supposed to
3 confirm whether we accepted those numbers, and we do.
4 They come from the filing.

5 MR. LANDRY: One last thing, Mr. Chair, is that
6 there was an undertaking relating to providing an
7 accounting record in relation to the legal fees
8 concerning the North American contractors legal suit.
9 There is a screenshot that we have, and we'll be filing
10 that as the next exhibit, I don't think we have enough
11 copies right now, so we'll -- we'll file and provide
12 the exhibit number at the -- at the break, if that's
13 okay.

14 THE CHAIR: That's fine.

15 MR. LANDRY: I suppose one last thing is I
16 think with the transcript, there was still some
17 suggestion that there might be an undertaking with
18 respect to the rate of return issue that was discussed
19 with Mr. -- Mr. Rondeau relating to the BCUC, I think
20 we ultimately concluded there was not an undertaking at
21 that point in time. I just wanted to make that
22 notation to the record. Obviously if Mr. Rondeau has
23 further questions and there are undertakings arising
24 that, then we'll deal with it, but it was my
25 understanding there was no undertaking relating to that

1 issue.

2 THE CHAIR: Yeah, I had a note on that, and
3 then I had marked it off that it wasn't outstanding, so
4 I think it was answered.

5 All right. Are there any other preliminary
6 matters?

7 MR. LANDRY: None from Yukon Energy.

8 THE CHAIR: All right, then. Perhaps we'll
9 begin with Mr. Maissan.

10 **MR. MAISSAN CROSS-EXAMINES THE PANEL:**

11 Q. Thank you. My next area of questioning is in regards
12 to load forecasts, and I am looking at Exhibit B-19,
13 PDF page 20, and it's a response to -- sorry, I
14 apologize. That's correct, okay. Exhibit B-19, page
15 20, it's interrogatory response CW-YEC-2-1. It's a
16 seven-page response, and I've got various questions on
17 this.

18 Reading on page 2 of 7, there is a comment --
19 they're discussing the loads experienced, and the
20 comment is that we had lower than expected winter
21 temperatures -- sorry, let me read it. "Lower than
22 expected winter temperatures were an important factor
23 for sales increases well above forecast," and this
24 would be referring to 2017. And I was wondering
25 whether Yukon Energy could explain whether those sales

1 were related to -- or peaks were related to extreme low
2 temperatures or -- or a let's call it winter of cold
3 duration where it was sort of average temperature over
4 the -- over the winter that was below average, as would
5 be indicated by, you know, degree days or something
6 like that, heating degree days.

7 **A. MR. MOLLARD:** **Mr. Chair, just in short, it's the**
8 **latter. So it's the duration of cold weather, and we**
9 **measure that using the heating degrees days information**
10 **published by Environment Canada. If there -- they have**
11 **an expectation, and then they publish an actual, so in**
12 **looking particularly at the fourth quarter, you can see**
13 **that, on average, the heating degrees days were higher**
14 **in each of the fourth quarter months versus the normal.**

15 **Q.** Thank you. In 2017, we set a new peak load for the
16 integrated system, did we not? Something around 92
17 point something megawatts?

18 **A. MR. MOLLARD:** **That's correct.**

19 **Q.** And can you tell me, then, was that related to extreme
20 cold temperature on that day or was that just a change
21 in the nature of the load; for example, increasing
22 amounts of electric heat on the grid driving that new
23 peak?

24 **A. MR. HALL:** **Yeah, well, the actual peak record**
25 **that you're referring to was in Q1 of 2018.**

1 Q. Q1, sorry.

2 A. MR. HALL: And I believe it was at around
3 minus 35, so it wasn't minus 40 degrees, so it wasn't
4 an extreme cold temperature day. So, you know, I think
5 we concluded there was more to do with increased load
6 on the system driving that peak.

7 Q. Thank you. Also in this referenced IR in the sentence
8 following, I read: (as read)

9 "Overall losses at 8.1 percent of sales
10 were lower than the 8.8 forecast."

11 That's a very substantial drop in losses after a number
12 of years of fairly consistent losses, and I was
13 wondering whether Yukon Energy had any explanation for
14 that fairly significant drop in losses.

15 A. MR. HALL: Mr. Chair, I would not agree with
16 the statement that we have fairly consistent losses.
17 I'm just looking at historic losses through the period
18 2014 to 2017, and there's a reasonable amount of
19 variability, at least a percent, 7.59 percent in 2014
20 going up to 9.81 percent in 2015. So I don't think the
21 variance that Mr. Maissan is referring to is a material
22 change --

23 Q. All right.

24 A. MR. HALL: -- given historic performance.

25 Q. Okay. Are those annual losses available on the record

1 somewhere? Are they provided --

2 **A. MR. HALL:** **I'm not sure.**

3 **Q.** -- as part of the application or in --

4 **A. MR. MOLLARD:** **Yeah, they're on Table 2-2, the**
5 **historical losses.**

6 **Q.** Losses?

7 **A. MR. MOLLARD:** **Yes.**

8 **Q.** Do I understand correctly -- and maybe this is what I'm
9 thinking of -- that in the 2012/13 GRA, the losses were
10 also approved at 8.8 percent?

11 **A. MR. MOLLARD:** **Subject to check, I think they've**
12 **been 8.8 for the past several proceedings, we've been**
13 **right around that level.**

14 **Q.** So that's probably what I'm thinking of, but the
15 actuals have fluctuated --

16 **A. MR. MOLLARD:** **The actuals will fluctuate in a**
17 **year, depending on where your loads and your generation**
18 **is coming from, it will affect that.**

19 **Q.** Thank you. All right. That's all my questions on load
20 forecast.

21 **A. MR. OSLER:** **Mr. Maissan, just for the record,**
22 **there is a revised version of CW-2-1 which has small**
23 **changes to it, just so that people are looking in the**
24 **future for that particular answer, it was slightly**
25 **revised.**

1 Q. CW-2.1?

2 A. MR. OSLER: Yeah, the one you were just --
3 CW-2, round two, version one, and it would be
4 Exhibit B-20.

5 Q. Thank you. My next question is on Exhibit B-19, and
6 it's a response to UCG-YEC-2-5, and that's PDF page 92
7 of that exhibit, and particularly on page 2 of 2. Do
8 you have that? Right.

9 So my question is -- comes from the table, the
10 long-term average hydro and thermal generation based on
11 DCF term sheet table compared to actuals. Under the
12 far right column, 2017 preliminary actuals, for hydro
13 we have 426. Do you see that? I was wondering whether
14 that includes generation from storage, i.e., a net
15 drawdown of storage during 2017 from either Aishihik or
16 Mayo, or is that just from inflows?

17 A. MR. OSLER: That would be calculated from the
18 DCF table in the application, the term sheet table. In
19 other words the table's locked down when we make the
20 filing based on the information in the YECSIM filings
21 that we talked about and the range of loads that the
22 table covers.

23 So the load changed from a forecast of
24 420 something gigawatt hours to an actual of whatever
25 it is, 440 or something. And then staff goes to that

1 table and finds what the long-term average is from that
2 table. So it doesn't change -- it doesn't reflect any
3 change in the system's reservoir status, and it doesn't
4 reflect any newer YECSIM runs or anything else. It's
5 based on all of that lockdown at the time of the GRA
6 filing.

7 Q. Okay. My question, though, and just to make sure I
8 understand, was in reference to the actual --

9 A. MR. OSLER: Yeah.

10 Q. -- as opposed to the DCF. So my question is, was there
11 hydrogeneration from storage during 2017?

12 A. MR. OSLER: You're talking about the actual,
13 not the --

14 Q. The actual; correct.

15 A. MR. OSLER: I'm sorry. Yes. Okay.

16 A. MR. MOLLARD: Yes, short answer, that is the
17 actual generation by plant summed up.

18 Q. Right.

19 A. MR. MOLLARD: We don't differentiate.

20 Q. And was there a net drawdown from storage? I think
21 2017, at least the latter part as having been fairly
22 dry, and so I was wondering whether there was a net
23 drawdown from storage at either Aishihik or Mayo or
24 some of both --

25 A. MR. OSLER: Yeah, we --

1 Q. -- during 2017?

2 A. MR. OSLER: We wouldn't have that as part of
3 this analysis. We were just looking, again, at the
4 total --

5 Q. Right.

6 A. MR. OSLER: -- generation for the purposes for
7 DCF. We didn't look at what -- we would have that
8 information on our reservoir levels, but I can't tell
9 you that right now.

10 A. MR. OSLER: All right. But you know that the
11 Mayo during that year ran into a drawdown and a problem
12 of water by the end of the year.

13 Q. I was aware of water availability, yes.

14 A. MR. OSLER: Yeah, and there's also -- there's
15 also diagrams in the DCF annual filing that's one of
16 the exhibits in the -- there's pictures -- the staffs,
17 Mr. G, annual forecast and record by reservoir. So you
18 can see from that what the reservoirs were like at the
19 end of each year recently and what they were looking
20 like going forward.

21 Q. So you're saying that that information is available on
22 the public record somewhere, whether --

23 A. MR. OSLER: Yes, and I'll get --

24 Q. -- there was a net drawdown?

25 A. MR. OSLER: -- you the reference in a minute,

1 but I'll undertake to get you that.

2 Q. Thank you.

3 A. MR. OSLER: And I just would -- I know I'm
4 fixated on revisions, but I think the number for the
5 long-term average in the table you're looking at
6 probably was subject to that revision I referenced in
7 CW. So if you look at the revised one, you'll see
8 whatever the long-term average was in the revised
9 version of CW-2-1.

10 Q. Okay. I'm getting a little bit confused. You're
11 referring now to long-term average --

12 A. MR. OSLER: Long-term.

13 Q. -- number?

14 A. MR. OSLER: Yeah, I think it was 27 point
15 something rather than 26 point something in the final
16 version. And these wouldn't have been revised just
17 because that other one was revised, I can that right
18 now.

19 Q. Okay. Fair enough. My next reference is, again, the
20 same Exhibit B-19, PDF page 42, and this is in response
21 to JM-YEC-2-2. Oh, sorry, I see we've dealt with that
22 already. Yes, sorry, I dealt with that in preliminary
23 matters, so that's been dealt with. Apologies.

24 MS. BENTIVEGNA: Sorry, Mr. Maissan, just the court
25 reporter has signaled that everybody's talking a little

1 fast, and it's hard to keep up, and sometimes people
2 are talking over each other --

3 MR. MAISSAN: I'm sorry.

4 MS. BENTIVEGNA: No, that's okay. I just wanted to
5 let everyone know.

6 Q. MR. MAISSAN: So please ignore my last comment.

7 My next question is on the application,
8 Exhibit B-1, and that would be page 116 of PDF, and
9 it's Appendix 3.4 and Table 3.4.1 on page 3.4-17,
10 PDF 116.

11 And my question, I think, is fairly
12 straightforward. In another IR, response to an IR,
13 there's mention of the Mayo restrictions both upstream
14 do to silting at the lake outlet and downstream from an
15 ice management perspective, and there was some
16 reference to the YECSIM model having been modified to
17 accommodate those restrictions, and I was wondering
18 whether this information in this table used the YECSIM
19 model before or after the modification to take into
20 account the Mayo limitations.

21 A. MR. OSLER: The answer is it takes into
22 account the Mayo limitations, as well as the extra
23 water years, and if you look at YUB No. 1-48, which I
24 believe is Exhibit B-4, you'll find the Board asked a
25 question as to how this table varied, depending on the

1 introduction of those restrictions.

2 Q. Right. And so this does include that.

3 A. MR. OSLER: Yeah.

4 Q. Right.

5 A. MR. OSLER: And just for the record while I've
6 got the reference I was -- said I would get you with
7 respect to the 2017 DCF filing is Exhibit B-20,
8 response to UCG-2-39.

9 Q. Thank you. My next series of questions relate to the
10 use of thermal generation, in particular, both the
11 diesel and LNG. And this question comes about in
12 reference to Exhibit B-19, PDF page 94. It's a
13 response to UCG-YEC-2-6. And in part, we describe --
14 or discussed briefly yesterday the actual decisions as
15 to when secondary sales was used by operator
16 discretion, system control operator discretion, and I'm
17 wondering if you could describe what a system operator
18 would do in determining, when he needs thermal
19 generation, how he decides whether he runs diesel or
20 LNG. Could you -- could someone describe that for me?

21 A. MR. HALL: Mr. Chair, I think in general
22 terms there's two -- two things, the operator will look
23 at. The one is the quantum of thermal that's expected
24 because, as we put on the record, the -- the LNG units
25 can turn down to a certain percentage of the maximum

1 output, which equates to, I believe, around 2.6
2 megawatts. So if the quantum of thermal required is
3 less than that amount, then obviously the LNG is not
4 appropriate for that particular use, and a diesel is
5 the only solution that can meet a small peak like that.

6 The second one would be duration. So if it's
7 expected to be a longer outage, you know, that would be
8 appropriate for use to bring the LNG engines on, then
9 they get dispatched.

10 Conversely, if it's a short -- if it's expected to
11 be a very short-term outage or reason for that thermal
12 peak, then the diesel is a more appropriate solution to
13 meet that short term.

14 Q. All right. The threshold amount I think that's
15 mentioned in response to IR --

16 A. MR. HALL: Yeah.

17 Q. -- is something like 2.6 megawatts for an LNG unit.

18 A. MR. HALL: And there would be also in the
19 sort of intermediate around 4.4 plus 2.6. There's
20 another intermediate zone where putting two LNG engines
21 on wouldn't make sense, wouldn't be possible.

22 Q. Right. So if the peak thermal requirement is less than
23 2.6, then it's not appropriate to start --

24 A. MR. HALL: Correct.

25 Q. -- an LNG unit.

1 A. MR. HALL: Yeah.

2 Q. Right. And what is the duration in time that would be
3 required to -- a minimum run time that would be
4 required for an LNG unit if -- if the load was
5 reasonable for an LNG?

6 A. MR. HALL: Yeah, Mr. Chair, it's an
7 interesting question. Initially the manufacturer of
8 the units specified a four-hour run time on the LNG
9 units, I think at this time we're going to start
10 pushing that, compressing that timeline because we've
11 had more detailed discussions with GE as we've, you
12 know, had more interactions with them over time, and I
13 think we'll start compressing that time, that timeline.

14 Q. So reducing by compressing and --

15 A. MR. HALL: Yeah, that's right.

16 Q. -- reducing that to something less than four hours.

17 A. MR. HALL: Correct. I think the other point
18 is it depends what time of year you're looking at. So
19 in the winter where, you know, the thermal units are
20 typically used more regularly, we'll have tanks at
21 pressure, so it's a lot easier to dispatch -- to
22 dispatch LNG. During the summer, we typically go into
23 a conservation mode where we try and minimize the boil
24 off gas, and there, depending on what your tank
25 pressure is, it can take longer to start up the system,

1 and so your response, your start-up time in some areas
2 may be slower.

3 Q. So if I understand correctly, to actually run the LNG
4 generators, you need increased pressure in the tanks to
5 feed at an --

6 A. MR. HALL: That's correct --

7 Q. -- appropriate flow rate?

8 A. MR. HALL: In reality, what we're finding
9 with higher grid loads, and in particular when you get
10 a situation of lower water, you know, when the LNG
11 units are used regularly under circumstances like that,
12 you know, they're pretty much on for multiple hours at
13 a time, and so this issue isn't really relevant. Our
14 experience over this winter, for example.

15 Q. All right. Thank you.

16 My next question is in reference to this Exhibit
17 B-9, PDF page 27. It's response to IR JM-YEC-1-10, and
18 I'm looking specifically at page 2 of 2.

19 So the question I have is in regards to the
20 response to Part C, and the second -- well, let me read
21 the whole thing: (as read)

22 "Although other forms of generation
23 could provide spinning reserve, YEC
24 typically relies on hydro for this
25 function from an economic perspective.

1 YEC chooses to operate thermal units at
2 full capacity whenever possible for
3 efficiency and ascent health reasons."

4 So the question is if YEC wants or needs to run a
5 thermal -- well, let's say needs. Wants is sort of run
6 up different. So if YEC needs to run a thermal unit, is
7 it always typically brought up to the optimum loading
8 and then perhaps hydro decreased to accommodate the
9 difference between the actual load so that when a
10 thermal unit is running, it's pretty much always running
11 at near optimal load?

12 **A. MR. SRECKOVIC:** **Mr. Chair, yes.**

13 **Q.** Thank you. And my last question is in regards to --
14 I'm sorry, I didn't write the exhibit number here. It
15 would be Exhibit B-19, and I'm sorry, I didn't write
16 the PDF page reference. It's response to JM-YEC-2-4.
17 And I apologize I didn't get the PDF page reference.

18 **A. MR. MOLLARD:** **It's page 47.**

19 **Q.** 47? Thank you. And it's -- the question discussed the
20 hydro diesel split between actual and long-term
21 forecasting. And given the discussions we've had on
22 how the decisions are made, whether a diesel or an LNG
23 unit is run, what I'm having difficulty understanding
24 is why the end practical result would be any different
25 depending on the type of forecast that was used,

1 whether it's short-term or long-term. It seems to me
2 that the description provided indicates that really how
3 and when a diesel or an LNG unit is run seems to be
4 independent of the forecast but dependent on the
5 circumstances.

6 **A. MR. MOLLARD:** Mm-hmm. Mr. Chair, the difference
7 we're talking about is the difference between a
8 short-term and a long-term forecast. In short-term
9 you're actually -- you're trying to replicate exactly
10 what's going to that happen in that year. On a
11 long-term average basis, you're trying to replicate
12 what's going to happen over 35 years, the average of
13 those 35 years.

14 And if you look at -- I don't have the reference
15 right with me, but the chart that shows over those 35
16 years the pattern of thermal burn, you find that 75 --
17 I think the ratio is 75 percent of the thermal
18 generation in 35 years is only in 20 years. Did I get
19 that right?

20 **A. MR. OSLER:** Yeah, the answer -- it says that
21 answer in the one Mr. Maissan is referring to. I guess
22 another way to say it, Mr. Chairman, is that we've been
23 talking -- I think Mr. Hall mentioned that when the --
24 we had a lot of water and therefore a low thermal
25 requirement, we had the issues that he was talking

1 about. That once we started to have a pretty high load
2 requirement for thermal, it's sort of irrelevant.

3 And I think that's about all it really comes down
4 to is if the short-term water forecast, which is part
5 of the short-term forecast, is showing that we have a
6 lot of water relative to the load, the diesel
7 percentage would be higher. And that's all it's
8 saying.

9 If we can talk long-term average all the time, we
10 should be able to lock down a number, and if we don't
11 like the number, we come back two or three years from
12 now, we can review it, but we have a lot more
13 confidence in saying, okay, 90/10, but if you start
14 saying to us, What is the number for the short-term
15 forecast? Well, I not only have to guess what the
16 water's going to be, we have to guess how many issues
17 there's going to be with the thermal units and
18 everything else. Unless we got a drought, in which
19 case we'd probably confidently tell you something else.

20 But I think it's very much that type of a
21 response, and you know enough of what Mr. Mollard was
22 getting at about the percentages how much many of the
23 long-term average calculation is really only in 20
24 percent of the water years. The rest of the years,
25 there isn't that much thermal in terms of the long-term

1 average prescription.

2 A. MR. MOLLARD: And the reference to graphical
3 representation of that is in the duration curve which
4 is Figure 3.4-1.

5 A. MR. OSLER: In the application.

6 A. MR. MOLLARD: In the application.

7 Q. So if I understand the gist of the entire discussion
8 we've had, then, in actual practice, depending on
9 actual water conditions, in some senses the forecast is
10 immaterial. It's what's required, you know, in -- in
11 real time --

12 A. MR. MOLLARD: Mm-hmm.

13 Q. -- that drives the percentage of LNG and diesel.

14 A. MR. MOLLARD: Yeah, yeah.

15 Q. Correct?

16 A. MR. MOLLARD: Correct.

17 Q. Thank you. My next question is in regards to
18 Exhibit B-13, and it's on page 3 of 23, so it's
19 JM-YEC-1-21 revised. On page 3 of 8 of that IR
20 response -- I should make sure -- you have that?

21 A. MR. MOLLARD: Yes.

22 Q. There is this table, and I wanted to confirm again that
23 the YECSIM model used at this point in time to derive
24 this table does include the Mayo restrictions?

25 A. MR. OSLER: The model used in this table is

1 exactly the same as the model used in the table we
2 discussed earlier. And all it did was -- and it's all
3 part of what was filed in the application that Mr.
4 Mollard just referred to because you've got the
5 graphics here, as well as the tables.

6 All that happened here for this revised exhibit
7 was we added the 490 gigawatt hour load because of the
8 question was, how would this change if you added in the
9 Victoria Gold load. So everything -- they're all
10 comparable, they're all the same as before, they all
11 went to the same DCF table.

12 Q. Thank you. And if I'm reading the far right column
13 correctly -- that's with the 490 gigawatt hour load --
14 the information shows that, out of the 35 water years,
15 we would have 5 water years in which the thermal
16 requirement is in excess of 100 gigawatt hours and
17 three where the thermal requirement is below 10
18 gigawatt hours per year. Am I reading that correctly?

19 A. MR. MOLLARD: That's correct.

20 Q. And the long-term average is 51.1 gigawatt hours per
21 year of thermal. That -- is that -- am I reading that
22 correctly?

23 A. MR. OSLER: Yes.

24 Q. Okay.

25 A. MR. OSLER: And the graphic that Mr. Mollard

1 was referring to earlier is right beside it on the next
2 page -- oh, next page, and it shows how the thermal is
3 distributed over the 35 water years. And as you look
4 at it you see that, as the load grows, we go from a
5 very low load at the left-hand side where we really
6 have mines connected at all. We hardly have any
7 thermal, except during a drought, all the way over to
8 we have both Minto and Victoria Gold assumed on the
9 system, and we're having material thermal requirement
10 in every water year.

11 So it's -- it's a good graphic of how much we're
12 sensitive to the load swing at the point we are in the
13 load right now relative to the hydro assets.

14 Q. Thank you. I am looking at page 5 of 8 of that same IR
15 response, Table 3.4.5 summary, and I'm looking at the
16 three right-hand columns, which is the -- which is
17 related to the DCF cap 8, 16, and 22 million.

18 And on a practical basis, I'm trying to understand
19 the numbers here. If I look under rider impact in
20 millions per year and which is the second set of
21 numbers down, and look at the -- look under the
22 \$8 million cap, what it's saying is that the peak
23 charge is 11.79 million. So that would be the peak
24 charge to the ratepayers in any one -- in the worst
25 year of 35 years. Is that right? That's the highest

1 charge?

2 A. MR. OSLER: Effectively, yes. This -- this
3 table is backed up by the detailed table for each one
4 of the columns we're talking about. So if you look at
5 that detailed table, you'll see there's 35 water years,
6 and you'll see how much the costs vary using LNG and
7 diesel for each year. So on top of the long-term
8 average amount, what extra amount might have to be
9 recovered, because the DCF would have gone below the
10 cap.

11 Q. Right.

12 A. MR. OSLER: So the number -- the testing
13 that's being done in this table is, how much does the
14 cap make a difference as to the extra charge ratepayers
15 would have to face when we had this drought? And it's
16 telling you that, if the cap was 8 million or
17 16 million and you had Victoria Gold on the system, you
18 haven't really solved reducing that extra charge needed
19 during the severe drought, but if you went to
20 22 million, you cut it down to 5.27. So it's one
21 indicator of, what did the difference in the cap make
22 to the ratepayers?

23 Q. Right. So with the cap of 22 million, the highest
24 anticipated annual charge is 5.27 million.

25 A. MR. OSLER: Annual extra rider --

1 Q. Annual --

2 A. MR. MOLLARD: -- annual charge.

3 Q. -- extra rider; right. So if we divide that
4 5.7 million by sales of -- a load of 490 gigawatt
5 hours -- sorry -- there is a difference in load in
6 sales. If we divided by the load, that would in my
7 calculation equate to roughly one cent per kilowatt
8 hour. Does that make sense to you?

9 A. MR. OSLER: Subject to checking --

10 Q. Subject to checking.

11 A. MR. OSLER: I'm never good at doing numbers on
12 a witness stand. So it's a good way to look at it, and
13 each person can do their own calculation, and how much
14 difference does it make? It's going to make half the
15 difference it would have made if you had had the cap at
16 16 million.

17 Q. Right. So if my math is correct, I know that would
18 have to be adjusted for sales --

19 A. MR. OSLER: Yeah.

20 Q. -- because it would have to be divided based on sales.

21 A. MR. OSLER: Yeah.

22 Q. So, round number is one cent a kilowatt hour is my
23 calculation, so we'd be close to twice that with either
24 an 8 or a \$16 million cap. So possibly a rider of --
25 of up to in the order of 2 cents a kilowatt hour.

1 A. MR. OSLER: Yes. I mean, the ideal of a DCF
2 concept is to smooth rates over time. And what the
3 caps do is create conditions under which rider --
4 customers get rebates or they get extra charges because
5 you've gone outside the cap, which means you don't get
6 rate stability bill over time. So how big a difference
7 does that make, is what this table is trying to test,
8 and it's going to vary depending on the load, and it'll
9 vary depending on how you change the system in the
10 future, and it may vary a few other things. But we
11 were just trying to do some simple, how important is an
12 8 million versus 16 versus 22? I think the underlying
13 conclusion -- and there are other variables in that
14 table you may want to ask about -- but the overall
15 conclusion is that if the load goes up with something
16 like this, if you want to have the same degree of rate
17 stability over time, you should raise the cap.

18 Q. Right. And in that regard, I was wondering, given that
19 it appears certain now that Victoria Gold is going to
20 be added to the grid in 2019, does Yukon Energy have a
21 preference as to what the cap should be set at going
22 forward with Victoria Gold on?

23 A. MR. MOLLARD: I believe we did put on the record
24 that we would support an increase in the -- in the cap.
25 I don't believe we advocated for a particular amount,

1 but based on that evidence, we did say that we thought
2 it might be appropriate to increase that or we would
3 support an increase.

4 A. MR. OSLER: And you might look at it in the
5 context of the evidence that we didn't know Victoria
6 Gold was by any means a certainty when we wrote the
7 application, so we looked at a range up to 16 million
8 in that context. When you asked the question about
9 redoing this with Victoria Gold and in the context of
10 answering an IR and everything else, we came up with
11 22 million. I would not consider that a considered
12 thought process. I mean if we were doing a new GRA,
13 we'd think through it much more carefully, but
14 16 million in the context of where we are today was
15 thought about.

16 Q. Thank you. My next question relates to Exhibit B-9,
17 PDF page 7, and that's the response to JM-YEC-1-3.
18 That's (a) and (b). And I was wondering whether Yukon
19 Energy could provide an update on the capacity DSM
20 plan -- sorry, capacity DSM study that was planned for
21 2018?

22 A. MR. SRECKOVIC: I'm just reading the IR, so No.
23 3(a) and (b). No. 3(a) and (b).

24 Q. In 3(a), there is -- it says: (as read)
25 "YEC is planning to conduct the

1 capacity DSM feasibility study in 2018
2 to help design a suite of new peak load
3 reduction aimed DSM programs."

4 And I was wondering if you could provide an update on
5 that study since it's expected to be completed this
6 year. Has it been initiated? Is it underway? Is it
7 complete?

8 **A. MR. SRECKOVIC:** Mr. Chair, the study has been
9 initiated. We awarded a contract to ICF, and the ICF
10 is going to start work very soon, and the final product
11 should be a proposal for the DSM capacity programs.
12 And we also applied for federal funding for a pilot
13 capacity DSM program, and we're hoping to get the
14 response from the federal agency in charge of funding
15 fairly soon.

16 **Q.** Thank you. And similar question for part (b): YEC's
17 involvement in the ETS pilot project with the energy
18 solution centre. I was wondering how that is
19 progressing; what is the status of that project?

20 **A. MR. SRECKOVIC:** Mr. Chair, Yukon Energy was a
21 part of that group at the time of the application was
22 submitted. In meanwhile, there has been -- there have
23 been some changes and the Yukon government Energy
24 Solutions Centre who's leading that program suggested
25 some changes, and we're in the process of finding out

1 what those changes should be. So there is a
2 possibility that -- that a study changes direction
3 completely.

4 Q. Thank you. My next question is the same exhibit, PDF
5 page 177, and that's a response to JM-YEC-1-34.

6 And my request is similar to the previous one:
7 Can you provide an update on this time-of-use rate
8 structure and smart grid study?

9 A. MR. SRECKOVIC: Mr. Chair, the answer is very
10 similar: Yukon Energy awarded a contract for that
11 particular project, and the kick-off meeting is
12 supposed to take place very soon. So -- and we're
13 doing that program with -- that project in cooperation
14 with ATCO.

15 Q. Did the board's decision not to allow the \$100,000
16 requested by ATCO as a contribution to the study affect
17 the scope of the study or the nature of the study?

18 A. MR. SRECKOVIC: Mr. Chair, the scope was -- the
19 scope of the study is as planned, and ATCO decided to
20 contribute by \$100,000.

21 A. MR. MOLLARD: Yukon Energy still believes it's a
22 valid project and worthy of funding.

23 Q. Thank you. I have some questions in regards to outages
24 and the potential battery project that's in the
25 integrated -- or in the resource plan, and this

1 question is centred on Exhibit B-9, PDF page 27. It's
2 a response to JM-YEC-1-10. This response -- this
3 question and response deals with a number of outages
4 that were experienced between August 3rd and 9th in
5 2017. And I was trying to read and understand each of
6 these situations. If we can turn to page 1 of 11 of
7 that attachment, which is two pages on, August 3rd, if
8 I'm reading this correctly, then Whitehorse No. 4
9 tripped offline about 7:40 a.m., and at the time, it
10 tripped off, it had a load, it was generating 18.1
11 megawatts. Am I reading that right?

12 **A. MR. MOLLARD:** That's correct.

13 **Q.** And the estimated load loss was 13.2 megawatts. So if
14 I can summarize my understanding of this situation,
15 there was a problem with Number 4, it generating at
16 18.1 megawatts, it had a problem, it tripped off.
17 Other generators started picking up some of the load,
18 but in order to stabilize the grid, there was some load
19 shedding, the load loss was equal to 13.2 megawatts, so
20 effectively other generators picked up roughly
21 5 megawatts. Is that a reasonable summary of the
22 situation?

23 **A. MR. HALL:** Yes, yeah, I mean that would be
24 reasonable, yeah.

25 **Q.** Yes. Now, without going step by step through all the

1 others, there were three outages on August the 8th, and
2 it seems to me that, you know, two of them related to
3 Whitehorse No. 4. And on August the 8th at the first
4 one, which is 5:50 a.m. -- and that's on PDF page 36.
5 What makes this a little confusing is that they're not
6 in time order. So, no, sorry, I didn't copy that part
7 here. But I have it as page 36 of the -- of the PDF.
8 At 5:50 a.m., Whitehorse 4 tripped again. It was
9 generating, I have here in my notes, 11.9 megawatts.
10 The load lost was 3.25 megawatts, so other generators
11 at the time of the trip picked up a fair bit of load,
12 but still load needed to be shed. And then there were
13 subsequent problems.

14 And the following day, it was an Aishihik trip on
15 August 9th, and that's on PDF page 38. It was
16 generating 14.2 megawatts, load lost was 8 megawatts,
17 and so other generators picked up 6 megawatts.

18 And if I'm reading that correctly, I'm wondering
19 if there were some instantaneous spinning reserve
20 available such as from a battery project as is proposed
21 in the resource plan, would that have reduced the load
22 loss or -- or perhaps even prevented load loss?

23 **A. MR. HALL:** So, Mr. Chair, I think what
24 Mr. Maissan's referring to is some of the -- what we've
25 loosely termed ancillary benefits of a future battery

1 project. I mean, the resource plan in general
2 identified a dependable capacity gap that needed to be
3 addressed, and battery was proposed through the
4 resource process as a solution, one of the solutions to
5 address -- to meet that dependable capacity gap.

6 But, you know, what Mr. Maissan's bringing up is
7 there are a number of operational benefits that a
8 battery would bring to the system, and one of them is
9 in an example like this where batteries can respond
10 very quickly to this kind of event, is our
11 understanding.

12 Having said that, I wouldn't say we've done the
13 design work to specify the battery in terms of its
14 maximum megawatt output. I mean, we still need to nail
15 down what a maximum instantaneous output would be on
16 the unit. So I can't say with certainty that it would
17 have been able to avoid load loss on every single of
18 these outages. But -- but I think you're speaking to a
19 general benefit that we do recognize, yes.

20 Q. Thank you. Can you perhaps -- you've already mentioned
21 some of it. Can you provide an update on the planning
22 for this battery project? Is it still 4 megawatt led
23 acid battery that's in the plan, or are you considering
24 other chemistries and perhaps other capacities,
25 something -- given Victoria Gold has since come on, you

1 know, is a higher-capacity battery perhaps something
2 that Yukon Energy would consider?

3 **A. MR. HALL:** Mr. Chair, I think at this time,
4 we haven't -- we haven't moved forward with the
5 detailed engineering of the battery yet. So I think in
6 terms of selection of battery chemistry or, indeed, the
7 combination of outputs and energy storage, those
8 details haven't been specced yet.

9 In terms of a general approach regarding the
10 battery, we -- and the resource plan was quite clear on
11 this -- if you look at the pure economics of a battery,
12 it still hasn't come down to the point where it's
13 competitive with -- with thermal. So our -- our
14 approach right now is to apply for federal funding.
15 We've submitted a federal funding application with the
16 intent that the funding would bring the economics in
17 line or possibly better than thermal. So that's the
18 strategy, in terms of the funding of a future battery
19 project.

20 **Q.** Right. And the ancillary benefits such as we discussed
21 during outages, that so far has not been factored into
22 the economics, I assume?

23 **A. MR. HALL:** Mr. Chair, the benefits, the
24 operational benefits of a battery we believe are very
25 real. But in terms of quantifying them and putting a

1 dollar value on, it can be quite challenging because
2 you're getting into what's the value of reliability
3 versus -- you know, in other words, how do you put a
4 dollar value on either faster restoration or avoiding
5 an outage, and that's quite a challenging exercise for
6 utility to undertake.

7 Q. Right. So if I understood the resource plan correctly,
8 the economics are based on being able to displace
9 diesel on a short-term basis with lower cost LNG fuel?

10 A. MR. HALL: The resource plan evaluated the
11 economics of capacity projects based on a metric
12 levelized cost of capacity, which is a reflection on,
13 really, the up-front capital costs of an asset as it
14 relates to providing capacity, LCOC, and the levelized
15 cost of capacity of the battery was higher than that of
16 thermal.

17 Q. I thought I recalled seeing something in the battery
18 study about 65 days per year in which diesel could be
19 displaced with LNG using such a battery. Is that
20 correct? Am I -- is my memory faulty on that?

21 A. MR. SRECKOVIC: Mr. Chair, when we -- when we did
22 portfolio analysis in the 2016 resource plan, we did
23 not go into details that Mr. Maissan just mentioned.
24 We evaluated battery only as a capacity resource. At
25 that point, we did not go into details to provide

1 potential additional benefits of battery because it
2 would really depend on a -- on the system configuration
3 and load.

4 Q. Right. So -- so the potential benefits, then, from
5 displacing diesel and using LNG or perhaps even
6 displacing LNG in favour of what would otherwise be
7 surplus or spilled hydro, then those economics are not
8 factored into the project as it stands at this time?

9 A. MR. HALL: Mr. Chair, I think it's important
10 to note, we're not bringing forward a battery project
11 to put into rates at this time. So the detail of how
12 we might present those economics is something for
13 future consideration.

14 I mean, I think all we can say is we -- it's on
15 our list of projects that we're working on. I have
16 spoken to the fact that we are looking for federal
17 funding because the -- the quantum in terms of dollars
18 is significant. It's, you know, it's multiple
19 \$10 million of project. So, you know, our board, it
20 feels very comfortable that we need to have some level
21 of funding in place in order to move the battery
22 forward.

23 Q. But since it's in Yukon Energy's plans --

24 A. MR. HALL: Yeah.

25 Q. -- and it is in the GRA, it's not inappropriate to ask

1 questions about it, is it?

2 **A. MR. HALL:** Happy to answer questions.

3 **Q.** Okay.

4 **A. MR. HALL:** I just think the detail of how we
5 might present the economics of the battery haven't been
6 nailed down.

7 **Q.** Understood and accepted. Thank you.

8 I have a series of questions on various capital
9 projects. My first one is in reference to Exhibit B-9,
10 and that's on PDF page 25 of 198, and it's the IR
11 response to JM-YEC-1-28. I see driving past the hydro
12 plant -- sorry?

13 **A. MR. MOLLARD:** What was the IR reference? Sorry,
14 Mr. Maissan.

15 **Q.** JM-YEC-1-28.

16 **A. MR. MOLLARD:** That's to do with the LNG third
17 generator?

18 **Q.** 1-28?

19 **A. MR. MOLLARD:** The page number you gave us refers
20 to 1-9.

21 **Q.** Oh, I'm sorry, I apologize. I've obviously messed that
22 up. It's -- it's -- it would be Exhibit B-9, I
23 obviously got the page, PDF page reference incorrect.
24 It's the response to JM-YEC-1-28 that I am looking at.
25 So my apologies for getting that page number wrong.

1 THE CHAIR: So it's page 165, I think.

2 A. MR. MOLLARD: We're there.

3 Q. 165. Thank you, Mr. Chair; I appreciate that.

4 My question is this: I see foundation work
5 happening now, obviously the project is underway, and
6 I'm wondering if you can tell me what type of generator
7 was -- gas generator was selected as a result of the --
8 of the study on what were the best options?

9 A. MR. MOLLARD: Same make and model as was
10 previously installed; the GE Jenbacher 624.

11 Q. So you weren't able to find anything?

12 A. MR. MOLLARD: Yeah, we went and looked at the
13 market; there was nothing, no viable option versus that
14 unit.

15 Q. Right. Thank you. My next question is PDF page --
16 same exhibit, PDF page 173. It's response to
17 JM-YEC-1-32. It's in regards to the new thermal plant,
18 and I was wondering whether there was any updates
19 available as to -- as to what's happening in the
20 planning with -- for that new thermal plant?

21 A. MR. HALL: At this time, we haven't moved
22 forward with any -- I mean, it's in our budget for this
23 year obviously, as you would have seen, but we haven't
24 initiated the engineering yet or indeed any of the
25 environmental work that we were planning to do during

1 the year. But it's still part of the plan for this
2 year.

3 Q. Thank you. Is it still a possibility or a
4 consideration to replace the Mirrlees generators, two
5 of which are retired, one of which is still in the
6 Whitehorse diesel plant, with new generators in the
7 same building?

8 A. MR. HALL: Mr. Chair, there were a number of
9 options outlined, and as such, the technology and the
10 location haven't been finalized. So there are a number
11 of locations considered, including essential retrofit
12 of our existing diesel plant, the open bays that would
13 become available, as you mentioned. The option being
14 considered for those bays would be dual-fuel engines to
15 take advantage of both the LNG and diesel
16 infrastructure that we have at the site.

17 Q. Yes, I have more questions on that later, but thank
18 you.

19 In Exhibit B-5, PDF page 285, this is an IR
20 response to YUB-YEC-1-79.

21 THE CHAIR: Sorry, Mr. Maissan, can I get that
22 page again?

23 Q. MR. MAISSAN: Yes. I believe it's page PDF 285
24 of 328, B-5.

25 And the question is the process for the fuel

1 selection for a new plant. The thermal study done for
2 the resource plan indicated the difference between LNG
3 and diesel units in terms of step load pickup. And
4 given that we're always, I assume, going to want to be
5 able to -- to restore from outages relatively
6 effectively, it would seem that we would need at least
7 a percentage of our thermal capacity as diesel. And I
8 was wondering whether that is a consideration in -- in
9 deciding what the fuel would be for a new thermal
10 plant?

11 **A. MR. SRECKOVIC:** Mr. Chair, in the development of
12 the 2016 resource plan, we analyzed a variety of
13 thermal options. Among those, diesel and LNG options
14 were considered. And having known that our major gap
15 was capacity gap, we determined that selecting a diesel
16 as a capacity to fill up the gap would be more
17 appropriate than LNG, the reason being that we would
18 not run that thermal unit too much and initial capacity
19 investment to diesel is significantly less than initial
20 capacity investment into LNG, and diesel was selected
21 as a more appropriate option.

22 **A. MR. HALL:** Mr. Chair, if I could just add to
23 that, I think subsequent to the completion of the
24 resource plan, there have been some developments in the
25 LNG supply chain, or prospective developments in the

1 LNG supply chain; principally the potential for a
2 supply depot to be constructed at a future point in the
3 Whitehorse area, and that gave us some pause to revisit
4 the decision after the resource plan was complete to
5 add LNG back into the mix as a consideration for the
6 future thermal plant. Because if you did have a LNG
7 depot, the prospect for buying gas over the fence from
8 that depot might be possible, in which case the capital
9 cost of the LNG plant at that point would -- could be
10 brought more in line with that of diesel.

11 So I think at this point, to my earlier comment,
12 no decision's been made, I think all of those options
13 are going to have to get studied again in light of what
14 may or may not transpire in terms of LNG supply chain
15 development.

16 Q. And restoration from outages would be one of the
17 considerations, capability to restore?

18 A. MR. HALL: Right. And I think -- excuse me,
19 Mr. Maissan, the --

20 Q. That's all right.

21 A. MR. HALL: You know, the -- you know, one of
22 the tricky issues to contemplate there is what the
23 status of the battery project might be at that point
24 because if the battery gives you your fast restoration,
25 you may -- it may change how you specify the thermal

1 **plant, so it's a fairly complex issue to think through.**

2 Q. Yeah. My next question is in reference to Exhibit B-9,
3 PDF page 191, and it's the IR response to JM-YEC-1-40,
4 and it's the climate change study that is in the plan.
5 I was wondering if there was updated information; is
6 that study underway, are the costs still the same?

7 A. **MR. SRECKOVIC:** **Mr. Chair, I can report that**
8 **we're proceeding with a study. The cost reported in**
9 **the application are consistent with a -- with the costs**
10 **that we're experiencing in reality, and the objectives**
11 **of the study are the same as reported in the**
12 **application. And the study is progressing as planned;**
13 **we're on schedule, scope and budget.**

14 Q. Thank you. My next question in -- is the same exhibit,
15 B-9, PDF page 193 of 198. It's the IR response to
16 JM-YEC-1-40. And the question is this: Is the study
17 underway and is completion at the end -- by the end of
18 this year still anticipated?

19 A. **MR. SRECKOVIC:** **The study is underway, and the**
20 **completion of the study is supposed to be the end of**
21 **the next year.**

22 Q. End of 2019?

23 A. **MR. SRECKOVIC:** **It's a three-year study, yes.**

24 Q. And is there an estimated cost for this study?

25 A. **MR. SRECKOVIC:** **I will have to check that,**

1 **Mr. Chair. Yes, there is.**

2 Q. There is an estimated cost, and you can provide that?

3 **A. MR. SRECKOVIC: Check it.**

4 Q. That's an undertaking, is it? Thank you.

5 **UNDERTAKING - TO ADVISE WHETHER THERE**
6 **IS AN ESTIMATED COST FOR THE STUDY AS**
7 **REFERRED TO IN IR RESPONSE JM-YEC-1-40**

8 MR. LANDRY: Mr. Maissan, just for the record,
9 what was the IR reference, what was that one you
10 looking at? It looked different than the one that I
11 was looking at.

12 MR. MAISSAN: The IR reference is -- sorry, that
13 should have been 41. I said 40 --

14 MR. LANDRY: Yeah. Okay.

15 MR. MAISSAN: I have 41.

16 MR. LANDRY: So I don't know if this will be
17 any different, but I was looking at something
18 different, which appeared to be a duplication of your
19 previous answer. For maybe clarification on the
20 record, we can ensure the panel was looking at the
21 right IR.

22 MR. MAISSAN: Yes, thank you. My apology.

23 **A. MR. OSLER: Which study?**

24 Q. MR. MAISSAN: Right. Yes. I apologize. Yes,
25 that is YEC-1-41 was the IR I was looking at. I

1 miswrote that in my notes.

2 A. MR. SRECKOVIC: Mr. Chair, if you -- if you could
3 please disregard my previous answer because my previous
4 answer was related to IR 40 instead of 41, so...

5 Q. Which was the climate change study; right?

6 A. MR. SRECKOVIC: The study is underway, and the
7 study will certainly be made public once -- once we
8 complete the -- complete the study.

9 Q. Okay. And is it anticipated to be complete at the end
10 of 2018?

11 A. MR. SRECKOVIC: A decision hasn't been made yet if
12 to complete the study in 2018 or to continue the study
13 in 2019. Considering the importance of the data
14 collection for the wind at Mount Sumanik, we still have
15 not made the decision if to complete the study at the
16 end of 2018 or to continue the study to 2019.

17 Q. Thank you.

18 I apologize for the confusion, Mr. Chair.

19 THE CHAIR: Okay. And you would asked them
20 some -- to undertake for costing on the other one. Did
21 you want that on this one?

22 MR. MAISSAN: Yes, I would like to know what
23 it's going to cost.

24 A. MR. MOLLARD: And to be clear, it's the wind
25 study cost.

1 MR. MAISSAN: It's the wind study cost, yes.
2 Thank you. Yes, we already have a cost for the
3 previous one. Thank you, Mr. Landry.

4 UNDERTAKING - TO ADVISE WHETHER THERE
5 IS AN ESTIMATED COST FOR THE STUDY AS
6 REFERRED TO IN IR RESPONSE 41 AS
7 REFERRED

8 MR. MAISSAN: I have one more area of
9 questioning, and I see it's 10:30. Did you want to
10 proceed? This one might be a little bit longer than --
11 than other areas. Or did you want to take a break now,
12 Mr. Chair?

13 THE CHAIR: It probably makes sense, then, to
14 take it now, and if you're going to go to another
15 section, then you can do all of that at one time.

16 MR. MAISSAN: Sounds good.

17 THE CHAIR: All right. So we'll break now and
18 come back at quarter to 11.

19 MR. MAISSAN: Thank you.

20 (ADJOURNMENT)

21 THE CHAIR: Please be seated. Do we have any
22 matters?

23 MR. LANDRY: Just one, sir, that -- and I spoke
24 to Mr. Maissan about this, just that confusion of those
25 two studies and the reference to it, I just wanted

1 to -- Mr. Hall just wanted to make sure that the record
2 was clear on one point. So perhaps he could do that, I
3 spoke to Mr. Maissan about? This. Mr. Hall.

4 THE CHAIR: Yes, go ahead.

5 MR. HALL: Yes, Mr. Chair, so just to
6 clarify, the climate change study we will certainly
7 make that public once it's complete. Mr. Maissan had a
8 question about public disclosure of these studies.

9 I would say for the wind study, and it's stated in
10 our IR response is given -- given the competitive
11 nature of the market as it relates to independent power
12 producers possibly looking to develop in the area, you
13 know, we haven't quite determined whether we would make
14 that study public or not, and then that's reiterated in
15 our IR response. So that's related to the wind study,
16 and that's IR JM-1-41.

17 MR. MOLLARD: Mr. Chair, we could also take care
18 of that undertaking now on the wind study costs, if
19 that's okay?

20 THE CHAIR: Yeah, just a second. Yes, go
21 ahead.

22 MR. MOLLARD: So the incurred costs on the study
23 to December 31st, 2017, is \$620,000. Our current
24 forecast for the work to be completed during 2018 is
25 \$80,000. And as we mentioned, there is the possibility

1 that study could be extended if we have issues with the
2 data, but for right now, that's our forecast to
3 complete the study for \$700,000 by the end of this
4 fiscal.

5 THE CHAIR: So 620 to the end of December.

6 MR. MOLLARD: '17, and 80 in '20 -- and 80,000
7 to be spent in 2018.

8 THE CHAIR: Okay. Yeah, I had noticed that
9 difference on that making that study public thing, and
10 I wasn't sure about that. So thank you for making that
11 clear.

12 All right. Are we ready to go ahead, Mr. Maissan.

13 Q. MR. MAISSAN: I'm ready to go, my last area of
14 questioning is in regards to the LNG plant, and most of
15 the time, I will be referring to Exhibit B-9, page --
16 starting at page 155, and it's the IR response to
17 JM-YEC-1-27. And I will be sort of moving back and
18 forth through this particular IR. I hope that I won't
19 cause any confusion, in terms of page numbering.

20 But I want to start with -- with a question on --
21 well, this legalities to the graph on page 6 of 7, and
22 I just wanted to confirm some numbers. First is can
23 YEC confirm that the cost of the alternate diesel fuel,
24 dual fuel diesel plant analyzed here is 13.4 megawatts
25 in capacity?

1 **A. MR. OSLER:** **Yes.**

2 **Q.** Thank you. And can I also get confirmation that the
3 cost of the LNG plant that is being analyzed here is
4 the initial project at 8.8 megawatts in capacity, i.e.,
5 it does not include the third generator?

6 **A. MR. OSLER:** **Yes.**

7 **Q.** Now, for a like-to-like comparison, do you think it
8 would have been more appropriate to include the cost of
9 the third generator so that we're comparing two
10 projects of roughly equal capacity, rather than
11 projects of disparate capacity?

12 **A. MR. OSLER:** **The questions were answered in the**
13 **context that the questions were placed. The third**
14 **generator wasn't coming on in that time period. In**
15 **terms of comparing it to the discussion in the LNG**
16 **hearing, yes, you would have comparison of the two, two**
17 **bundles of relatively equal capacity.**

18 **Q.** Thank you. Can YEC provide a figure such as on page 6
19 of 7, the Figure 1 that includes -- sorry, rephrase
20 that question. Yes, can -- can YEC provide an update
21 to this Figure 1 or a revision of this Figure 1 with
22 both of these projects subsidized by the 18.3 million,
23 rather than one subsidized and one not?

24 **A. MR. MOLLARD:** **Yes, I believe we can -- we can**
25 **prepare that analysis.**

1 Q. Yes, and just for the record, the -- I realize it may
2 be a largest undertaking. I have no requirement to
3 have it during the sitting of this hearing, so if it's
4 more appropriate to -- to provide it when you have more
5 time, it can be provided, you know, days down the road?

6 A. MR. MOLLARD: Thank you.

7 Q. Thank you.

8 MS. BENTIVEGNA: Sorry, Mr. Maissan, the only
9 problem is if there isn't a date and we've got reply
10 and argument dates, you may want to -- or and other
11 parties may want to have it sooner, rather than later.

12 MR. MAISSAN: Fair enough. Yes, I was assuming
13 that it would be provided in time to include in our
14 preparation of argument.

15 A. MR. MOLLARD: Monday; is that a reasonable date?

16 MR. MAISSAN: That's reasonable for me.

17 A. MR. OSLER: It's a holiday.

18 A. MR. MOLLARD: Sorry, Monday's a holiday. How
19 about Tuesday?

20 MR. MAISSAN: That's fine by me. Right.

21 Q. On page -- the next page, page 7, there's a Figure 2
22 that compares the dual fuel 13.4 megawatt plant with
23 the 8.8 megawatt LNG plant. Can a similar figure to
24 this also be provided that includes the cost of the
25 third generator along with the cost of the existing

1 plant so that we have two comparable similar capacity
2 plants on the figure?

3 A. MR. OSLER: Technically it can be done, but
4 the practical problem is that we're not generating --
5 we're putting in an extra cost, but we are not putting
6 in any extra benefit because it isn't in service in the
7 time period you're looking at. So the graphic -- the
8 graphic doesn't really display anything out of it. So
9 we can look at how to deal with that, but it raises
10 questions about, okay, you've got a 40-year life, and
11 what are you talking about, in terms of the benefits.

12 Q. Yes, fair enough, but given the size of this capital
13 project, and I think it's fair that we need to test the
14 prudence of it, and I'm thinking that I would get a
15 better feel for that, being able to compare, you know,
16 more on a like-for-like basis. So yeah, if you could
17 do what you could and --

18 A. MR. MOLLARD: Can you restate the request,
19 please, just so I make sure I got it down properly.

20 A. MR. OSLER: Can I put it this way, that we
21 will look at Figure 2 and the information behind it,
22 which is in a table, in the context of trying to help
23 everybody understand, if we had all these costs for the
24 two bundles over their lives, you know, it may not be
25 the same figure, but it can be a comparison that talks

1 to the benefit relative to the cost over the life of
2 the assets. We will do our best to provide that.

3 Q. Thank you.

4 A. MR. OSLER: By Tuesday.

5 Q. In response to part J and K on page 7 of 7, the
6 question had asked: (as read)

7 "Please confirm that the capital cost
8 estimate for the diesel alternative
9 included electrical switch gear
10 replacements and other building
11 upgrades designed to service three, 6.7
12 megawatt dual fuel generators."

13 The answer did not specifically respond to that, and I
14 was wondering whether you can confirm that in that dual
15 fuel diesel option there were upgrades included in that
16 cost estimate to accommodate a third 6.7 megawatt
17 engine.

18 A. MR. OSLER: I can't do that here. You're
19 asking for the third one, okay.

20 Q. Yes.

21 A. MR. OSLER: We have to check some other
22 information.

23 Q. Sure. And if it is helpful, there is -- there is
24 information on the record in the LNG proceeding, and I
25 thought it would be a matter of confirming that. I

1 don't need to know details, I just need the
2 acknowledgement that there was some extra costs. If
3 you can do that, checking the record, that would be
4 appreciated.

5 **A. MR. OSLER:** And if you have the record
6 reference, you could perhaps give it to somebody.

7 **Q.** I will do that.

8 **A. MR. OSLER:** Thank you.

9 **Q.** Is the LNG storage that is provided as part of this
10 project adequate to also serve dual fuel engines in the
11 existing diesel plant should they be installed? There
12 was a reference earlier in the discussion for the
13 potential for -- or the possible potential for dual
14 fuel engines replacing the Mirrlees, and if that were
15 to be done, is the existing LNG storage capacity
16 adequate to meet -- to meet the needs of those
17 potential new generators?

18 **A. MR. HALL:** Mr. Chair, it's a complex question
19 because you have to look at the adequacy of the
20 storage, but then also your supply chain. I mean, it's
21 not just the storage, it's the supply chain that
22 supplies it. But yeah, I mean, the intent was that
23 that storage would be used to fuel a subsequent
24 investment in dual fuel if we made that, yes.

25 **A. MR. MOLLARD:** And the infrastructure is in

1 place. We have a low pressure gas line that goes to
2 the diesel plant that could be teed off, so there
3 wouldn't be much investment that way.

4 Q. Yes, thank you.

5 A. MR. OSLER: And the other concept of having a
6 dual fuel was also to relax the -- you still have the
7 engine capability, even if it's for some reason unknown
8 you had a problem with the supply chain on the LNG
9 side. So there's a series of thoughts that went into
10 the comments that are being made with -- but nobody's
11 gone back at the moment and gone through the rechecks
12 of it all, so the complexity is still there, and it has
13 to be examined in detail if somebody's going to go to
14 the next stage of examining.

15 Q. Thank you. The next question perhaps somewhat overlaps
16 with a question we previously discussed, and that is
17 the potential for installing three 6.7 megawatt dual
18 fuel generators in the existing diesel plant a
19 possibility for a future instead of a greenfield
20 thermal plant on the basis that it would allow
21 potential advantage of diesel operation when you needed
22 it for circumstances such as restoration and LNG when
23 it's advantageous on the basis of cost?

24 A. MR. HALL: Mr. Chair, I think you might -- in
25 my prior response I outlined that it is one of the

1 options being considered, together with a couple of
2 other greenfield locations.

3 Q. Thank you.

4 A. MR. HALL: Sorry, if I might add something to
5 that: The concept of a dual fuel is what I was
6 referring to. Whether it'll be three 6.7 megawatt
7 engines is a completely different matter anyway. I
8 can't comment on the engine selection in terms of
9 output capacity.

10 Q. Understood, yes. Yes, at the time of the LNG project,
11 the alternative that was looked at were 6.7 megawatts
12 Wartsila, and I can quite understand that a new project
13 would look at that again from start.

14 A. MR. OSLER: Well, and just to be -- for the
15 record, that was all looked at in the context of the
16 replacement of the Mirrlees. Now that we have 13
17 megawatts planned, that would be a new analysis as to
18 what is the appropriate scale and everything else to
19 put in the old bays. So it would in general be
20 understood properly as a brand new assessment of the
21 optimum approach and options for those two locations to
22 that location. Because the fact that we used a dual
23 fuel of a certain size before was all in the context of
24 replacing those particular Mirrlees with 13 megawatts
25 of new capacity. We've had that now, so we're going to

1 another stage of analysis, and maybe it would be a
2 different scale of size, maybe it would be different
3 mix, maybe it would be all sorts of things.

4 Q. Understood, but what strikes me as being interesting
5 here is that the resource plan is looking for about 20
6 megawatts of new thermal capacity and three times 6.7
7 provides that capacity, so it seems like an interesting
8 possibility.

9 MR. MAISSAN: Mr. Chair, with the undertaking to
10 provide these additional figures, I think that
11 concludes my questioning on the LNG plant and my cross
12 altogether. Thank you.

13 THE CHAIR: So I've got the two undertakings
14 for Tuesday, but then there was another one where you
15 were going to provide some materials, and what was
16 going to happen with them?

17 MR. MAISSAN: I was going to provide a reference
18 for -- to Mr. Landry for that confirmation I was
19 seeking and -- and I have that here with me, and I can
20 do that at a convenient break?

21 THE CHAIR: And then we'll get a response
22 about that, a confirmation? So that's kind of -- that
23 will be like an undertaking then, as well?

24 MR. LANDRY: I think the best way to do it is
25 just leave it as an undertaking. It's just a little

1 bit of information that will help them track down
2 the --

3 THE CHAIR: Okay. And that one we don't have
4 to wait until Tuesday, likely? It will just be a
5 matter of --

6 A. MR. OSLER: No, as soon as we can confirm,
7 with the information Mr. Maissan gives us, that that
8 was what was on the record before, we can confirm it to
9 the Board.

10 THE CHAIR: Perfect. Thank you.

11 Thank you, Mr. Maissan.

12 **UNDERTAKING - CONFIRM THAT IN THE DUAL**
13 **FUEL DIESEL OPTION THERE WERE UPGRADES**
14 **INCLUDED IN THAT COST ESTIMATE TO**
15 **ACCOMMODATE A THIRD 6.7 MEGAWATT ENGINE**

16 MR. MAISSAN: Thank you.

17 THE CHAIR: So we'll switch over to
18 Mr. Rondeau now, give you guys a chance to move your
19 stuff.

20 I guess just while we're waiting, did that C 2-10
21 material come to the staff yet? You guys -- we have
22 it? Okay. Thank you.

23 MR. RONDEAU: I will deal with that, but I've
24 got some things from Mr. Maissan's cross that I wanted
25 to get at while I'm still in -- while it's fresh in my

1 mind.

2 THE CHAIR: No, no, that's fine. I was just
3 asking while you were getting ready because we had a
4 new exhibit this morning numbered. All right. Go
5 ahead if you're ready.

6 **MR. RONDEAU CROSS-EXAMINES THE PANEL:**

7 Q. Okay. As I said, I have some questions regarding the
8 thermal generation and the mix. Now, yesterday you
9 gave us the mix for 2017, the updated mix. Can you
10 provide us with the 2018 mix so far, see if there's
11 changes?

12 A. MR. MOLLARD: Yes, will that be satisfactory if
13 we can get it for you --

14 MR. RONDEAU: Yes.

15 THE CHAIR: Will that be satisfactory, they'll
16 get it for you, so at some point here we'll report
17 back?

18 MR. RONDEAU: Exactly, an undertaking is fine.

19 THE CHAIR: Thank you.

20 **UNDERTAKING - WITH RESPECT TO THE**
21 **THERMAL GENERATION AND THE MIX, TO**
22 **PROVIDE THE 2018 MIX SO FAR**

23 Q. MR. RONDEAU: Okay. Now, Mr. Maissan crossed
24 about the way you dispatch your thermal units, whether
25 it's LNG or -- or diesel. And my question is, is --

1 you know, you used the amount required and the duration
2 of the use before deciding LNG. Could some of this
3 also be because it -- operations for LNG are not
4 instantaneous, you have to do some warm-up or
5 something?

6 **A. MR. MOLLARD:** Yeah. So the there's two pieces
7 to it. I think Mr. Hall referenced them both when he
8 was responding to Mr. Maissan. If the -- if the tank
9 pressure -- tanks aren't pressurized, there's a
10 spool-up process to get the tanks up to pressure before
11 you can start the engines, and then the engines
12 themselves, as we mentioned, have a recommended minimum
13 run time.

14 Initially it was four hours minimum run time, but
15 we're now looking at, as Mr. Hall mentioned, looking at
16 whether we can shorten that up somewhat.

17 **Q.** So you're looking at some way that you can pressurize
18 this so that it can be instantaneous.

19 **A. MR. MOLLARD:** No, it's more -- the second part
20 of it -- well, so just to be clear, the -- we
21 pressurized -- if we -- if we have reasonable foresight
22 that we're going to need to run the units, we'll
23 pressure them in in advance.

24 The example Mr. Hall gave is, in the summer when
25 we don't expect to run them, we keep the tanks at low

1 pressure. So if there was an event on the system, it
2 will take a while to spool up. The reference to run
3 time was the manufacturer had recommended a minimum run
4 time, and we're just pushing them on that at a little
5 bit to see if we can tighten that up and get more use
6 out of the engines.

7 Q. Okay. Have you looked at any other ways that you could
8 accommodate an instant start-up? Are there other
9 technologies out there?

10 A. MR. HALL: We have looked at -- at various
11 retrofits that could be done to the engines to feed in
12 low pressure gas, but the reality is the high
13 efficiency of the engines is reliant on having a high
14 pressure gas feed at a certain part in the -- in the --
15 in the piston cycle. So at this point, we haven't
16 identified anything that -- that would be
17 cost-effective to implement.

18 I mean, I just want to state again that as grid
19 loads increase or when you face low water conditions
20 and your engine utilization is higher, these are not
21 issues because the engines are running more steadily,
22 the tanks are at pressure. So it's not a situation we
23 face during any kind of steady state operation of these
24 engines.

25 Q. Okay. In YUB-2-1-G.

1 THE CHAIR: Did you get the other references?

2 MR. RONDEAU: No, I'm sorry, I don't have that.

3 THE CHAIR: Then give us a sec.

4 A. MR. OSLER: **It'll be B-19.**

5 MR. RONDEAU: Thank you.

6 THE CHAIR: B-19. And then which -- which
7 question was it?

8 MR. RONDEAU: It's B.

9 THE CHAIR: 2-1-G?

10 MR. RONDEAU: B. Or, pardon me, you're right,
11 G. And here --

12 THE CHAIR: Just a second. So I think we're
13 looking at page 258. Is that where we are in the PDF?

14 MR. RONDEAU: It's a statement on regulatory
15 precedent.

16 A. MR. OSLER: **Can we just confirm, are we in**
17 **YUB-2-1.**

18 Q. That's correct. G.

19 A. MR. OSLER: **D?**

20 Q. G, George.

21 THE CHAIR: So the answer is like G and H
22 together on that page, is that right, page 5 of 7? Is
23 that where we're at?

24 MR. RONDEAU: Possibly. I just have a quote
25 here that I have written down that I want to read out.

1 **A. MR. OSLER:** Could you read out the quote to
2 make --

3 **MR. RONDEAU:** Sure.

4 **A. MR. OSLER:** -- sure we have the right place.

5 **Q. Yeah. (as read)**

6 "YEC states that it's not aware of any
7 regulatory precedent for similar
8 hydroelectric utilities in Canada where
9 thresholds have been introduced, such as
10 a plus or minus 10, of forecasts wherein
11 the utility assumes responsibility for
12 their thermal generation volume
13 variances."

14 Now, my question would be: Can you identify which
15 utilities you reviewed?

16 **THE CHAIR:** It's at the top of page 259, I
17 think.

18 **A. MR. OSLER:** Yeah, it's the top.

19 The statement is that we're not aware of it. The
20 utilities that we have awareness of would include
21 Northwest Territories, Manitoba Hydro, obviously; to a
22 lesser extent, British Columbia; and to a much lesser
23 extent, Manitoba Hydro because it's not as easy to get
24 to the bottom of these. But the bottom line is that it
25 hasn't come to our attention that this type of approach

1 has been adopted for the purposes described here in
2 these other major hydro utilities, let alone the ones
3 in the north.

4 Q. Okay. YUB-2-6, April 6th IR responses, and it is
5 Part A.

6 THE CHAIR: I believe that's page 389.

7 Q. And here again, the statement I'm after is: (as read)

8 "YEC bears -- state that they bear the
9 risks of higher costs if the final
10 thermal generation mix after the DCF
11 determinations differs from a 90-to-10
12 mix assumed in the GRA test year
13 forecasts."

14 And my question is does this mean that YEC shareholders
15 will bear this risk if the costs are higher? And on the
16 contrary, if they're lower, they'll reap the benefits?

17 A. MR. MOLLARD: I don't believe it works that way,
18 Mr. Chair, and I'll ask Mr. Osler to fill in where I
19 miss this, but the way we've structured the math on
20 that DCF, yes, in a non-test year where you have the
21 scenario that we're not able to get to 90/10, thereby
22 essentially burning more diesel than LNG, that's going
23 to be at the company risk. But the way the math works
24 on the lower side, we force the math to 90/10. So
25 there's no windfall for YEC; our target is to get to

1 90/10, so if the loads are lower, it doesn't -- it'll
2 just work itself out so we can't take that windfall.

3 A. MR. OSLER: And yes, if the diesel share is
4 higher, that is to the shareholder. And as Mr. Mollard
5 says, there isn't, to our ability to look at it,
6 there's no way that it can be the other way around;
7 it'll be always at least 90 percent and not -- you
8 know, that type of thing for the LNG versus the diesel.
9 But if you run enough diesel in the year, you can't, in
10 your final payment to the DCF, put in anything more
11 than a hundred percent LNG, and the result can be that
12 you don't end up with only ten percent diesel.

13 And a good example of that is in fact the 2017 DCF
14 final report filed in Exhibit B-20 in response to
15 UCG-YEC-2-39 where the year-end result is not 90/10,
16 it's more like 87/13 because enough diesel was run in
17 217 to force that result.

18 Q. So you're telling me that it -- this the way that this
19 is structured, it should act as an incentive for YEC --

20 A. MR. OSLER: Yes.

21 Q. -- to use less diesel.

22 A. MR. MOLLARD: Absolutely, yes.

23 Q. YUB-2-6(c). The same IR, but down to (c). Okay.

24 Again, a statement made that: (as read)

25 "YEC states that 90-to-10 ratio is

1 statistically based but reflects
2 experience and expected related thermal
3 generation to supply long-term average
4 requirement over all water years."

5 My question is: What would be the impact on ratepayers
6 if the LNG/diesel ratio would end up being something
7 like 50/50?

8 A. MR. MOLLARD: Mr. Chair, I think -- if I'm
9 understanding the question correctly, I think that goes
10 to our previous response, to the extent we're not able
11 to get to 90/10 because we burn a higher percentage of
12 diesel, that risk falls to the utility.

13 Q. There is no risk or impact on the ratepayer if your
14 forecast is incorrect?

15 A. MR. MOLLARD: I want to think carefully about
16 that. There's no risk to ratepayers if?

17 Q. There's no impact on ratepayers if, like I say, if it
18 goes to 50/50.

19 A. MR. MOLLARD: Yeah, rates would not change in
20 that circumstance.

21 A. MR. OSLER: And when you read out the
22 statement, I think the word "not" is the -- the risk,
23 the analysis did not have any statistical basis -- I
24 can't read the actual sentence, but it wasn't
25 statistically derived; it's an assumption based on the

1 information as we've provided it, the 90/10.

2 Q. It's not statistically --

3 A. MR. OSLER: It's not statistically.

4 Q. Correct?

5 A. MR. OSLER: And in the context of everything
6 we're talking about in this hearing, the company's
7 forecasting the GRA long-term average based on 90/10,
8 and if in fact the amount of diesel is required is
9 higher than 10 percent, as we just said, the
10 shareholder bears the risk, and they have the incentive
11 to have that not happen. I think in every GRA this
12 will be reviewed to see how reasonable the 90/10 is,
13 whether it can be improved or whether or not there are
14 other learnings, but in the context of this hearing and
15 this GRA, that's the proposal from the utility.

16 Q. I believe I have one more thing on the thermal.
17 YUB-2-14, dated April 6th, and it's Part A that I'm
18 looking at. And here, you state that: (as read)

19 "YEC has not examined specific reasons
20 why actual thermal generation
21 requirements will be well above
22 short-term forecast amounts."

23 And my question is has this been done, or why hasn't
24 this be done, I guess maybe is a better approach.

25 A. MR. MOLLARD: Sorry, Mr. Rondeau, can you point

1 out that reference in the --

2 A. MR. OSLER: It's in the first sentence.

3 A. MR. MOLLARD: -- response?

4 Q. The YUB IR?

5 A. MR. MOLLARD: Yes, please.

6 Q. YUB-2-14(a).

7 A. MR. OSLER: And maybe -- maybe you could just
8 read out the question again now that people have --

9 Q. Just why -- why hasn't this be done? Can you give us a
10 reason why this statement is made?

11 A. MR. MOLLARD: Sorry for that delay. Yeah, this
12 is an issue we've looked at somewhat but not in great
13 detail. What we suspect is happening with respect to
14 this, the short-term forecast models tend to be
15 optimistic. They have a certain set of assumptions
16 that are plugged into them, and they use those
17 assumptions to determine how much they think we need to
18 be required to generate. What we're finding in actual
19 fact, it doesn't mimic the real world, and it generally
20 tends to under forecast how much that is required on
21 the system.

22 Q. Another forecasting glitch --

23 A. MR. OSLER: And just to be -- we're not using
24 the short-term forecast for rate requirement purposes,
25 so there's been no incentive for anybody to try and

1 focus on approving it. The operators in their
2 short-term modelling and forecasting are working on a
3 bit different time period than what this analysis
4 shows, and they are not having the same issues we're
5 having with trying to have somebody give us a
6 short-term forecast quickly for the purposes of a rate
7 hearing.

8 Our application was prepared based on the
9 long-term average, and the focus of attention in the
10 team was on that. So I don't want to throw anybody
11 under buses for forecasts that really had no intent to
12 be used for the purposes that it was asked to be used
13 for here.

14 Q. Fuel costs, I -- are any of the panel members aware of
15 a decision that was made this month in which the
16 regulator has modified the utility's automatic fuel
17 cost surcharge to include a risk sharing agreement? In
18 other words, the utility takes some of the risk, not
19 just the ratepayer. So that, in other words, not all
20 the fuel costs are passed on to the customers. Have
21 you looked at this type of...?

22 A. MR. MOLLARD: Don't know what jurisdiction or
23 what regulator you're talking about.

24 Q. It doesn't matter which one it is. It's in Hawaii,
25 just for your own state. But have you looked at

1 anything like this, a sharing agreement?

2 **A. MR. MOLLARD:** Sorry, I'm not clear, Mr. Chair,
3 on what exactly the model is you're proposing.

4 **Q.** I'm proposing some type of cap where your fuel costs
5 are capped, and after that, under that, the -- the
6 customer pays it, and after that, the utility pays it.
7 There's a cap, at least.

8 **A. MR. OSLER:** Just for the record, are you
9 thinking of the fuel price, or are you thinking of the
10 cost price times volume of thermal generation?

11 **Q.** That question goes over my head, but it -- fuel cost
12 surcharge is the way it was worded in the -- in the
13 Hawaii decision.

14 **A. MR. MOLLARD:** I'm not sure how to respond to
15 that, Mr. Chair. We didn't -- we didn't look at a
16 model like that for the purposes of this application.

17 **Q.** I realize that, but I'm asking you if you have ever
18 looked at something like that.

19 **A. MR. MOLLARD:** No.

20 **Q.** While I'm at it, I believe there was something on the
21 DCF that Mr. Maissan brought up that I wanted to -- oh,
22 yes. Now, when you were discussing the caps, various
23 caps of -- of the DCF, you mentioned that you looked at
24 16 million. Did YEC look at zero?

25 **A. MR. MOLLARD:** No.

1 Q. And why not?

2 A. MR. MOLLARD: Well, that would effectively wipe
3 out the functionality of the fund, so we didn't think
4 that was a viable option.

5 A. MR. OSLER: And the conclusion presented in
6 the application was that all the analysis we did
7 indicated there was absolutely no basis for considering
8 a lower cap than 8 million, and the issue was to look
9 at increasing the cap and under what circumstances and
10 for how much.

11 Q. But that's -- that's your opinion. That is not
12 necessarily going to be what the Board decides or
13 anything like that. They should have some type of
14 reference to go on from -- from a 0 to 8 to 16.

15 A. MR. OSLER: It is certainly only the opinion
16 of the company writing the application. The hearing is
17 here to discuss the implications of that and the
18 options.

19 The company was making the point that, given the
20 principles the Board had laid out in the last decision
21 in this matter, Mr. Chairman, you had made the
22 observations about the benefit of a DCF to provide
23 stability for ratepayers, and that if it was going to
24 achieve that objective, it should minimize the number
25 of times we have rate riders leading to integrating

1 stability, and it should also provide substantive
2 relief in the case of a drought.

3 And in those two grounds, the Board approved the
4 8 million cap that the company had recommended and
5 disapproved, did not go with lower caps other people
6 had suggested. That issue can be revisited in a
7 hearing like this. But the application, to assist the
8 Board and the participants, did an analysis and said,
9 given those principles, there seemed to be no basis at
10 all for a lower cap, and there was good basis to
11 discuss and consider a higher cap. So that's -- that's
12 the record. And this is the hearing to discuss it.

13 Q. Okay. Very good. YUB on the same type of thing, the
14 DCF, YUB-2-13(a), like Albert. Here you make a brief
15 argument on why you feel the DCF should remain. And
16 the statement -- are you ready? The statement reads:
17 (as read)

18 "YEC states that it would not be fair or
19 appropriate to replace the DCF and the
20 LTA forecast alternative with rate
21 instability through the use of GRA..."

22 Or some other type of proceeding or using retained
23 earnings, for example, because this sense or -- or
24 (as read)

25 "... which would also send price signals

1 to ratepayers in order to modify
2 consumption in response to high versus
3 low water conditions."

4 Now, my question to this is: Is the YEC actually -- do
5 you actually believe that Yukon ratepayers have
6 experienced stable rates in the last ten years?

7 **A. MR. MOLLARD:** **Sorry, Mr. Chairman. Stable**
8 **relative to what?**

9 **Q.** Just stable rates. Have we -- have our rates remained
10 stable for the last ten years?

11 **A. MR. OSLER:** **The way in which -- first of all,**
12 **in the period when the mine was here, there was a great**
13 **deal of what we would call rate instability in the**
14 **sense that, when the mine went off, the rates went up**
15 **and vice versa in a very severe way. When the mine**
16 **closed in 1993, the company applied for a 50 percent or**
17 **so rate increase, and the Board awarded a 30 percent or**
18 **so rate increase, which is certainly extreme in my**
19 **experience. And when the mine came back on, the**
20 **situation stabilized briefly until it went back off**
21 **again. And every indication we received in subsequent**
22 **meetings of the company that I've been told about is**
23 **that Yukoners really, really didn't like that rate**
24 **instability, and they blamed it on the mine.**

25 Relative to that era, I think we've had more

1 stable rates in the 2000s. Stable does not mean flat.
2 It means that they're not jerking around. They're
3 following a pattern that is predictable and --

4 Q. Straight up.

5 A. MR. OSLER: It could be straight up, it could
6 be straight down, but it isn't not jumping all over the
7 place and driving people nuts. I think in the context
8 of what we're talking about here, maybe Mr. Mollard or
9 Mr. Hall would like to comment further, but I just
10 wanted to set the context for what we mean by "stable."

11 Q. That's fine. That's enough on that. Only one further
12 comment on that is, the consumer, the Yukon ratepayers
13 have already experienced a 30 percent raise and have
14 endured and adapted, so it's an argument against the
15 DCF that Yukoners may prefer to have this happen than
16 have a so-called contingency fund that has made all
17 sorts of controversy since it was brought forward.

18 So I'm -- I'm asking you is -- that's why I ask
19 you is, why isn't zero or getting rid of the DCF being
20 looked at by the company?

21 A. MR. MOLLARD: Well, I think this goes to the
22 crux, Mr. Chair, of the debate between short-term
23 average and long-term average. We've put a fair bit of
24 evidence on the record that we feel the DCF or
25 something like it that is based on a long-term average

1 approach is the best way to promote rate stability.
2 The short-term forecast approach looks promising when
3 you've got good water, but at some point you're not
4 going to have good water, and then you have the rate
5 instability that we're talking about, so that's why we
6 advocate for that approach.

7 A. MR. OSLER: And the answer that we're
8 referenced to here in terms of normal rate making
9 principles, which is one of the things we're directed
10 at through the Order-In-Council is that if you are
11 concerned about trying to track costs to ratepayers to
12 reflect the situation, the best information we have is
13 you would never contemplate a rate increase in a
14 drought year sufficient to recover the costs of that
15 year, and you probably wouldn't even be able to do it
16 in terms of timing.

17 So the principled approach, we think, is something
18 that is smooths out the hydro asset impacts on
19 ratepayers much more over the life of the asset than
20 the life of the drought. And so we make that point as
21 advice in the context of the normal principles that
22 we're asked to make sure we pay attention to. It's
23 still, though, when all is said and done, a matter of
24 trying to assist ratepayers with rate stability, and it
25 really technically is not a matter for the company or

1 the company's self-interest. Just so we get that
2 clear. The company will be held whole under the rate
3 making principles one way or the other. This is
4 entirely focused on trying to facilitate appropriately
5 principled and stable rates for customers of that
6 utility. And if the customers rise up and say they
7 don't want stable rates, the Board will listen to those
8 submissions.

9 Q. I understand that, but is -- it's still -- does it not
10 still cause intergenerational inequities as I
11 questioned earlier?

12 A. MR. OSLER: And the answer we provide in the
13 response is we think the fairest way is to pay
14 attention to a reasonably stable situation over the
15 life the asset, rather than having it fluctuate
16 depending on who's living here at the time of a
17 drought. But --

18 Q. Could I have a yes or no? Does it create an
19 intergenerational inequity? I don't want a whole bunch
20 of spin, I just want a simple answer, please; yes or
21 no.

22 A. MR. MOLLARD: Mr. Chair, I think that's a bit of
23 an unfair question. This is, I think, the ground that
24 we covered yesterday in talking about intergenerational
25 equity and balancing that out with the fairness, so

1 it's a bit unfair, I think to ask us to give a yes/no.

2 THE CHAIR: I don't disagree with what they've
3 said.

4 Q. MR. RONDEAU: Doesn't surprise me.

5 Okay. Back to the C 2-10 that was discussed
6 yesterday about contradicting numbers.

7 THE CHAIR: Sorry, that reference again?

8 MR. RONDEAU: It's the C 2-10 that was handed
9 out --

10 THE CHAIR: Okay.

11 MR. RONDEAU: -- with that co-compliance.

12 THE CHAIR: I got you. It's coming. The
13 Board doesn't have it yet, we're just going to get it.

14 A. MR. OSLER: What's this exhibit number?

15 Q. MR. RONDEAU: C 2-10, I believe.

16 THE CHAIR: So we have this now; it's a
17 two-page exhibit.

18 MR. RONDEAU: As well as the Schedule 9, Yukon
19 Energy Summary of Customers that was on the record.

20 THE CHAIR: Okay. So that Schedule 9 is
21 located where.

22 MR. RONDEAU: Tab 7 of the GRA.

23 THE CHAIR: It's in the application, so it's
24 in B-1?

25 MR. RONDEAU: Yes.

1 THE CHAIR: Just hang on.

2 MR. RONDEAU: 713.

3 THE CHAIR: So that's the page number was 713?

4 MR. RONDEAU: That's correct, that's what it --
5 it's Summary of Customer Sales and Revenues.

6 THE CHAIR: Okay. Hang on. Page 290 of the
7 PDF. Everyone's got that. Okay. So we've got
8 these -- this C 2-10 is two pages, and then this table
9 that's at this other location, those are the three
10 things you're going to be referring to?

11 MR. RONDEAU: Right.

12 THE CHAIR: Okay. Go ahead.

13 Q. MR. RONDEAU: And it's basically purchase power
14 or wholesale power that is provided by the two
15 companies that differ in their numbers.

16 So Mr. Landry actually gave the second page, which
17 was very helpful, because it also gives the -- the
18 number of usage as well as the costs, which I want to
19 look at both.

20 Now, if we look at the wholesale sales on page 7
21 of Yukon Energy, and let's focus -- I'll focus on 2017.
22 And we're looking at wholesale only. Now, according to
23 YEC, it says 309,000 megawatts apparently were bought
24 -- or pardon me, were sold to -- to Yukon Electric, or
25 AEY. According to AEY figures, 323,663 megawatts were

1 sold. If you look at the first line of page 1 of 1,
2 the purchases.

3 THE CHAIR: You're talking about schedule 3.1;
4 right?

5 MR. RONDEAU: That's right.

6 THE CHAIR: Okay.

7 Q. MR. RONDEAU: And then the costs, of course,
8 will be corresponding. If you look at the costs of
9 what Yukon have stated that they paid, it's \$25,641 --
10 25,641,000, and YEC -- or pardon me, ATCO says it's
11 26,404. So I would like to get a reason why these
12 figures are contradicting.

13 A. MR. MOLLARD: Certainly. Mr. Chair, so a couple
14 things important to note here. The reference to
15 Schedule 9 in our application, that application number
16 was prepared prior to ATCO being approved in its final
17 compliance filing. So that's one piece.

18 The other piece it's important if you're trying to
19 compare those two tables, the number referenced in the
20 Schedule 9 for YEC is firm sales only. The 323
21 gigawatt hours -- or 309 gigawatt hours referenced in
22 -- or, sorry, 323 referenced in ATCO's Schedule 3.1
23 includes secondary sales, so that would be a
24 reconciling item. And since that time, of course, the
25 Board did direct us to update our firm sales numbers to

1 reflect that 314 gigawatt hours. So that will be
2 reflected in the -- in our compliance filing.

3 MR. RONDEAU: Before I get into capital costs, I
4 was hoping that I could deliver some of these out at
5 noon so that they would have a chance to look at. I
6 don't know, you may -- Mr. Landry may want to wait till
7 after lunch break. There's that page and the next
8 page.

9 MR. LANDRY: First of all, I guess, which is a
10 question I'm sure somebody will ask but I'll ask it
11 first: Where in the record is this?

12 MR. RONDEAU: Where in the -- that's why I'm
13 putting it on here. The first page that says Draft,
14 this is the financial statement for 2017, taken out of
15 Yukon Utilities Board's web, and the other page is the
16 utility income statement that Yukon Energy filed for
17 2017.

18 MR. LANDRY: Do I take that, Mr. Chair, that
19 it's not on the record and you're wanting to put it on
20 the record?

21 MR. RONDEAU: Well, that's why I have this. I'm
22 unsure. That's why I have a copy of these in case I
23 have to put it on the record.

24 MR. LANDRY: Why don't we do this so that we --
25 I can help Mr. Rondeau and also check with the panel,

1 if that's okay with Mr. Chair. We'll just find out
2 whether it is on the record, it would be better if we
3 have a record reference, and then we can deal with it
4 after the break, if that's okay with you.

5 MR. RONDEAU: That's fine. Gives you time to
6 discuss.

7 THE CHAIR: Yes, that'll work. So if we can
8 find it in the materials that are already filed; and if
9 not, then if you guys can agree that it might be an
10 aid.

11 MR. LANDRY: Yeah, what I'll do is --
12 presumably Mr. Rondeau won't have any difficulty with
13 me talking to the panel about this --

14 MR. RONDEAU: Not a problem.

15 MR. LANDRY: -- to let them know what it is and
16 that type of thing and then we'll come back and give
17 whatever position we have, and I'll inform Mr. Rondeau
18 before that what our position is.

19 THE CHAIR: That's satisfactory.

20 MR. RONDEAU: I don't believe it would be on the
21 record, per se. I haven't seen it. All I know is that
22 it is in the record of YUB, it's in YUB's records as a
23 -- as a filing, so I don't know how that operates when
24 it comes to each specific proceeding.

25 THE CHAIR: Well, we've got a way forward here

1 now, so we'll just follow this.

2 MR. RONDEAU: Very good. Capital projects.

3 THE CHAIR: So we're at five 10 12, so is this
4 -- you're going to be going through a number of things
5 in the capital field?

6 MR. RONDEAU: Definitely.

7 THE CHAIR: You're shaking your head this way,
8 but you mean this, right?

9 MR. RONDEAU: I mean definitely, definitely,
10 definitely. It'll take a while.

11 THE CHAIR: So maybe now is an appropriate
12 time to take our lunch break?

13 MR. RONDEAU: That's fine with me.

14 THE CHAIR: So we'll resume at 1:30, thank
15 you.

16 (PROCEEDINGS ADJOURNED AT 11:56 A.M.)

17

18 PROCEEDINGS ADJOURNED TO 1:30 P.M.

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1 Volume 2
2 June 27, 2018
3 P.M. Session

4
5 (PROCEEDINGS RESUMED AT 1:30 P.M.)

6 THE CHAIR: Please be seated.

7 So are there any matters we're ready to report on
8 now?

9

10 **UNDERTAKING RESPONSES:**

11 A. HALL, E. MOLLARD, C. OSLER, G. SRECKOVIC

12 MR. LANDRY: Mr. Chair, I have just -- we have
13 a few undertakings that we can deal with. The first
14 one I'll deal with, and I've asked my colleague to
15 provide copies to the room, including to the staff and
16 yourselves, and it relates to transcript page 69, lines
17 24 to 25, which is that the request for the transaction
18 writing off the legal fees in relation to the North
19 American contractor's lawsuit.

20 And so what is being passed out is a document that
21 we can attach as the next exhibit, and it is a
22 screenshot of the actual journal entry doing that, so
23 that probably should be a YEC exhibit, so I'm not sure
24 what number we're at.

25 MS. BENTIVEGNA: That will be B-23.

1 MR. LANDRY: 23.

2 THE CHAIR: B-23?

3 MS. BENTIVEGNA: Yes.

4 THE CHAIR: Right. And so this screenshot
5 of -- okay.

6 **EXHIBIT B-23 - SCREENSHOT OF JOURNAL**
7 **ENTRY WRITING OFF LEGAL FEES IN**
8 **RELATION TO THE NORTH AMERICAN**
9 **CONTRACTOR'S LAWSUIT**

10 MR. LANDRY: The second one was I had mentioned
11 to Mr. Rondeau that I would check to see if the
12 document that he wanted to hand up to you was in the
13 record. It actually is in the record, which is what my
14 understanding was, and it's at -- and I apologize, I
15 don't have the PDF number, but just for the record,
16 it's at UCG-2-42.

17 **A. MR. MOLLARD: It's Exhibit B-19, page 157.**

18 MR. LANDRY: There you go. So that...

19 THE CHAIR: That's the one about the 2018 mix
20 so far?

21 MR. LANDRY: No, this is the one, just before
22 the break, Mr. Rondeau had a document that he wanted to
23 hand up as an aid, and we said it was going to go back.
24 And we did find it, so I'm not saying he can't use
25 that, but it is in the record --

1 THE CHAIR: It is in the record? Okay.

2 MR. LANDRY: -- that's the proper reference.

3 THE CHAIR: So it doesn't need to be an aid?

4 MR. LANDRY: I don't think so.

5 THE CHAIR: Okay. And then -- sorry.

6 MR. LANDRY: Okay. We have a couple more

7 undertakings that can be dealt you. And maybe,

8 Mr. Osler, you can start.

9 Q. MR. OSLER: Okay. Undertook to Mr. Maissan

10 when he was discussing with us under B-19, the question

11 JM-YEC -- sorry, not B-19 -- it would be B-4,

12 JM-YEC-1-27, questions J and K, and he made the point

13 that he didn't think they'd been answered and could we

14 please confirm a few things. And so I will confirm,

15 having reviewed what he gave me, that the -- that the

16 capital cost estimates for the diesel alternative that

17 he was referencing for the two 6.7 megawatt dual fuel

18 engines included infrastructure to distribute gas to

19 the engines within the diesel plant and included

20 electrical switch gear replacement and other building

21 upgrades designed to service three 6.7 megawatt dual

22 fuel generators.

23 That's it. I'm confirming those two things?

24 MR. LANDRY: Thank you. Mr. Mollard.

25 MR. MOLLARD: Yes, Mr. Chair, with respect to

1 the request from Mr. Rondeau for 2018 LNG diesel split
2 or actuals. So to May 31st, 78 percent LNG, 22 percent
3 diesel.

4 THE CHAIR: So by my reckoning, that only
5 leaves the ones that are set for July the 3rd.

6 MR. LANDRY: That's our understanding too, sir.

7 THE CHAIR: Okay.

8 MR. LANDRY: And I thought maybe what we could
9 do, and if there is any further, we'll just update
10 tomorrow morning so that we keep a running track of
11 what we have and what we don't have.

12 And that's everything we have, thank you.

13 THE CHAIR: Thank you.

14 Does everyone else have any other matters before
15 we start again with Mr. Rondeau or UCG?

16 Okay. Go ahead.

17 Q. MR. RONDEAU: Before I get into new stuff, I
18 would like to ask one question on the amount of money
19 that was supposedly written off. I would like to ask
20 how do we know that this was written off? Where does
21 this show on here?

22 A. MR. MOLLARD: It's -- well, it's -- it's an
23 extract from my financial system, it's a journal entry
24 transaction. To read that block at the bottom, so the
25 Cap-C12010 is the work order that sits on my balance

1 sheet that I use for tracking the costs associated with
2 the project. So you can see I credited that account,
3 so I removed the money from the work order that was on
4 my balance sheet, and that 9050-908-9932 is an expense
5 account, so I've debited that to my income statement,
6 effectively writing it off.

7 Q. Okay. Just to be clear, none of this is on will go
8 onto the revenue requirement now or later?

9 A. MR. MOLLARD: No, as I said yesterday, we do
10 have an intention, if we're successful in this
11 proceeding, to come back to this Board and ask for
12 payment.

13 Q. Okay. I didn't get that, but thank you.

14 A. MR. MOLLARD: Yeah.

15 Q. The other thing is the two information pages that I
16 would like everyone to look at, UCG-2-42.

17 THE CHAIR: This is the one we were talking
18 about before lunch?

19 MR. RONDEAU: Yes.

20 THE CHAIR: So that's B-19, page 157, UCG-2-4.

21 MR. RONDEAU: Dash 4 it is.

22 THE CHAIR: I thank you. I haven't opened it.

23 A. MR. MOLLARD: B157, Exhibit B-19; is that the
24 reference?

25 THE CHAIR: That's what I think that you said.

1 MR. RONDEAU: UCG-2-4?

2 A. MR. MOLLARD: **Dash 42, Attachment 1.**

3 Q. MR. RONDEAU: Okay.

4 THE CHAIR: Just a moment.

5 MR. RONDEAU: Yeah, I'm waiting.

6 THE CHAIR: Okay. I'm there.

7 Q. MR. RONDEAU: Okay. I'm not sure if it's -- if
8 it's referenced as page 6 in the documents -- yes, page
9 6. I'll deal with that one first.

10 Now, yesterday, Mr. Mollard, I asked you to give
11 us an update on the revenues of Yukon Energy for 2017.
12 That's what I'm dealing with here. Can you give us
13 that number again, please?

14 A. MR. MOLLARD: Sorry, we're just trying to find
15 the correct reference. Yeah, so the -- the reference I
16 have, this is for sales of power, it's -- and sorry, I
17 don't have the PDF reference, but it's UCG-YEC-2-18,
18 updated total sales revenue, 47,071,000.

19 Q. Okay. Now if we look at 2-42, and we look at the
20 revenues that were given for the financial statements,
21 it's unaudited, it's the unaudited financial statement
22 that Yukon Energy filed with the Board, we see revenues
23 at 49,723. And I might as well go into the next one
24 because I'm going to ask for why the discrepancies on
25 the three of them. The other one is the Yukon Energy

1 utility income and rate of return page that was filed I
2 believe at the same time as the unaudited financial
3 statements, and it's page 1 of page 6, March 2018.
4 Sorry that I didn't reference this better; I was going
5 to hand out just the pages, so...

6 THE CHAIR: We'll just wait here for a second,
7 Mr. Landry will help us.

8 MR. LANDRY: I -- I believe, if I've got -- can
9 I just see?

10 MR. RONDEAU: You have a different page?

11 MR. LANDRY: Yeah, it's on -- now I don't have
12 PDF numbers, but it's the same document, the same
13 financial, you keep going in quite a ways, past pages
14 42, and then it starts again with, down at the bottom
15 of the page, March 2018, page 1 of 6. It's a number of
16 pages in, and that's the -- that's the one that Mr.
17 Rondeau, I believe, is referring to. So it might take
18 a second to get there because they're not
19 sequentially --

20 MR. RONDEAU: That's fine.

21 THE CHAIR: Is that page 200?

22 MR. LANDRY: Actually, in the lower right-hand
23 corner of the document that you're in, the financials,
24 you'll see it's got an A number, and if you go, it goes
25 all the way up to A41 and then A42, A43. The page

1 that's being referenced by Mr. Rondeau is A42.

2 THE CHAIR: So I think that's PDF page 200.

3 MR. LANDRY: Good, thank you.

4 Q. MR. RONDEAU: Titled Utility Income and Rate of
5 Return? Okay. We're on the right document. Now, this
6 is 2017 again, and if I go into this document, I see
7 the total revenue as \$51,863,000. Now, those are three
8 numbers that do not match, and I would like some
9 reconcile on that?

10 A. MR. MOLLARD: Understood. I'll take that as an
11 undertaking.

12 Q. Okay.

13 THE CHAIR: So just to be clear, the question
14 is on that page PDF 200, it's 51,883, and page 157,
15 it's first number --

16 MR. RONDEAU: 49,000 --

17 THE CHAIR: 49 million.

18 MR. RONDEAU: Or 49,723,000.

19 THE CHAIR: And then the other number that
20 we're comparing it, the third number is the number that
21 Mr. Mollard has provided; is that right?

22 MR. RONDEAU: That's correct; 47,000 --

23 A. MR. MOLLARD: From UCG 218.

24 THE CHAIR: And that number is 47?

25 A. MR. MOLLARD: 47,071,000.

1 THE CHAIR: Okay. So that'll come back after
2 the break or tomorrow morning.

3 MR. RONDEAU: Fine.

4 MR. LANDRY: Whenever --

5 THE CHAIR: Whenever you get it. Okay. Thank
6 you. You can go ahead now.

7 **UNDERTAKING - TO PROVIDE A**
8 **RECONCILIATION OF THESE THREE NUMBERS**
9 **\$51,863,000, \$49,723,000 AND**
10 **\$47,071,000**

11 Q. MR. RONDEAU: Okay. Now I'm going to go into
12 capital projects, and I'm just going to give you a
13 brief premise, if that's okay, or a brief -- some brief
14 information.

15 Yukon Energy has number of capital projects that
16 you now want to put onto the rate base. And I can give
17 you some of the examples that I have here. I have the
18 updates to the Aishihik plant at 2.7 million, various
19 transmission generation plant upgrades for sustaining
20 capital, 24.4 million; Whistle Bend, 11.4 million; LNG
21 plants, 23 million; plus third Turpin (phonetic) if it
22 goes into 2018 at 6.2. Those are all for capacity
23 planning, which I've added up to be 40 million total.

24 Then we have Gladstone Diversion, Marsh Lake
25 enhancement, Mayo Lake enhancement that are 16 plus

1 million, the DSM and the resource plan at 5.5 million.

2 It's basically a lot of it -- or most of it was
3 taken out of page 6, I believe, in -- it's summarized
4 in page 6 of the application, which is...

5 Are we ready? So if I go through the numbers that
6 I just went through, I get approximately a hundred
7 million. If we look at the -- the two major capital
8 projects on page 6 and the deferred costs, it's 7.4
9 million and 28 million, so it's over a hundred million.

10 Now, my question is to you, Mr. Hall, would you
11 not consider that this spending is at a critical trend?

12 MR. LANDRY: Can I just stop for a second?

13 The reference to page 6, I'm sure it's unintended,
14 but I don't think that's the correct reference to the
15 listing. And I don't have any problem with Mr. Rondeau
16 asking questions like he is, but I don't -- the premise
17 that he started with -- I've just added them up --
18 doesn't come up that number. I just want that on the
19 record.

20 The listing I think perhaps that you're referring
21 to, Mr. Rondeau, is -- and again, I leave it to you to
22 decide whether it is, but I believe it's in chapter 5,
23 pages 5 and 6, 5.5, or 5-5 and 5-6.

24 Q. Okay. That's fine. Even the page 6 is good enough.
25 It shows that it's over a hundred million.

1 MR. LANDRY: Okay.

2 MR. RONDEAU: And that's in -- that's on -- on
3 the application. So again, my question is, Mr. Hall,
4 don't you think this is at a critical trend?

5 A. MR. HALL: Well, Mr. Chair, I'd make a couple
6 of comments. You know, firstly, the justification for
7 each project is reviewed independently, so we'd welcome
8 questions on specific projects because that's the way
9 we -- we take, for example, all our supply projects
10 through individual stage-gate evaluation where the need
11 and justification for the project is reviewed. So we'd
12 be happy to answer questions on specific projects if
13 you have then.

14 My only other comment would be, if you look at our
15 asset base -- and I think I made these comments in my
16 opening remarks yesterday -- we do face a situation
17 where -- many of which were built in the '50s through
18 the '70s, are reaching end of life and so do need to be
19 refurbished. And so that is necessitating an
20 investment in capital, what we call sustaining capital.
21 And so because of where we are in that capital life
22 cycle, you know, some of these costs are trending up.

23 A. MR. MOLLARD: And as well, Mr. Chair, I just
24 mentioned on the planning study specifically, we've
25 discussed this in this form a number of times, as the

1 primary generator in the Yukon, we need to invest in
2 the next generation of -- next generation of generation
3 to supply customers in the future as capacity grows and
4 -- or as load grows and we need to have something to --
5 to generate electricity to immediate those needs.

6 Q. Okay. Fine. I understand that things need to be
7 brought up to date. What I question here is some or
8 probably most of this hundred million has been spent
9 on -- on capital projects that'll never be used or
10 useful, or certainly haven't been yet. You've spent
11 all this money. Why wasn't it spent on actually making
12 our utility modernized?

13 A. MR. HALL: Mr. Chair, I think it would help
14 me if -- if Mr. Rondeau would explain how he feels that
15 the assets aren't used and useful.

16 Q. How the assets...?

17 A. MR. HALL: Are not used and useful.

18 Q. Well, I -- maybe I should just leave that. I'm going
19 to go through some of that further in my questioning,
20 so I'll leave that for now, and maybe I'll try and come
21 back to that to get an answer on the picture as a
22 whole.

23 I guess because I'm doing this as a -- as an
24 overview, my question is, do you consider this process
25 that we're going through now an ample process to digest

1 for the Board and for all the -- the stakeholders to
2 digest and regulate in a -- in a proper way?

3 **A. MR. HALL:** Mr. Chair, a couple of thoughts on
4 that question. Firstly, I don't think it's appropriate
5 for the utility to comment on the nature of the
6 regulatory proceeding we're in. I mean, we're subject
7 to -- to your oversight and the framework that we have.

8 Are we -- do we believe that we've provided
9 adequate disclosure? Absolutely.

10 **Q.** What I'm basically asking you is, we have all these
11 things in front of us, including the General Rate
12 Application, revenue requirement, we have a resource
13 plan, we have DSM. We have many, many things on our
14 plate to review here, and what I'm worried about is
15 this will not give us an adequate understanding to see
16 if -- if these projects were prudent or not. I'm going
17 to try my best to question on you on some of this,
18 but --

19 **A. MR. HALL:** Mr. Chair, I believe, you know,
20 all interveners have had adequate opportunity to ask
21 IRs, submit IRs, we've answered hundreds of questions
22 over several months, taking up, you know, hundreds of
23 hours of both our time and our consultants' time of --
24 so I believe we've -- we've been responsive to -- to
25 all information requests that have been submitted.

1 Q. Okay. Before I go into specific projects, there's
2 still some general things. Now, Mr. Hall, you go
3 through -- can you tell -- can you tell us a bit about
4 how Yukon Energy strategizes to use or demonstrate high
5 levels of assistance performance and how these are
6 implemented and evaluated?

7 A. MR. HALL: Mr. Chair, maybe just a
8 clarification; is there a particular section of the
9 application you're referring to, your comment about
10 system performance, just so I can situate the question?

11 Q. Well, you have some reliability performance, KPIs and
12 things like that, that I'm going to reference here.
13 Maybe we can wait until we do that first and --

14 A. MR. HALL: Sorry, if you've got some KPIs
15 you'd like on the record that you'd like to ask
16 questions about, certainly.

17 Q. Okay. Now, you have the obligation to file reliability
18 performance reports yearly; correct?

19 A. MR. HALL: Correct.

20 Q. Now, if you see the application 3.3-10 -- Appendix 3.3,
21 page 10.

22 A. MR. HALL: Yeah, we have that.

23 Q. This only goes up to 216, so that's what I have to deal
24 with. If we look at 214, I'm looking at -- at the
25 SAIDI number, which is the number of interruptions per

1 customer?

2 A. MR. MOLLARD: Sorry, where is that, Mr. Rondeau?

3 Q. It's the -- the first on the graph.

4 A. MR. OSLER: Are we looking at Figure 2.1, Mr.
5 Rondeau?

6 Q. We are.

7 A. MR. OSLER: It's the page before.

8 Q. It's a chart or graph of --

9 A. MR. OSLER: Just some confusion because the
10 bottom of the page says 3.3-10 and the document was
11 originally numbered Number 9; that's why people are
12 getting confused.

13 Q. Not my fault.

14 A. MR. OSLER: I wasn't suggesting it.

15 Q. Okay. We're looking at the -- the number of
16 interruptions per customer, the SAIDI, and if I look at
17 2014, it was 5.66, and if I look at 2016, it was 10.49;
18 correct?

19 A. MR. MOLLARD: That's SAIFI?

20 Q. It is SAIFI, yes, sorry.

21 A. MR. HALL: Okay.

22 Q. Now, my question is -- before I go on to the question,
23 I guess, it also gives a five-year average for that,
24 which is 2.81?

25 A. MR. HALL: Okay.

1 Q. So the trend shows that this is -- this is going up,
2 not down. Is that correct? I don't have 2017, so I
3 can't --

4 A. MR. HALL: Mr. Chair, I'm not sure I agree
5 with that statement. This SAIFI -- S-A-I-F-I --
6 declined from '15 to '16, so I don't necessarily see a
7 trend going up.

8 Q. Well, it goes from 5.66 to 10.23 from 2014 to 2016.

9 A. MR. HALL: Correct, and the five-year average
10 is 10.23.

11 Q. The five-year average is --

12 A. MR. HALL: So the 2016 SAIFI is consistent
13 with the five-year average.

14 Q. And the CEA five-year average is 2.81.

15 A. MR. HALL: Okay.

16 Q. The Canadian Electrical --

17 A. MR. HALL: But that's a different issue. You
18 asked about a trend, and I responded.

19 Q. Okay. Okay. To me, it shows an increase.
20 Nevertheless, can you give me some information, seeing
21 that you are a member of the Canadian Electrical
22 Association, of discussions around average -- CEA
23 five-year average being 2.81 whereas the five-year
24 average for Yukon Energy is 10.23, almost five times
25 greater?

1 **A. MR. HALL:** Right, I'm going to have to
2 take -- take that away, I can't give you a response on
3 that. I would point out that our SAIDI is actually
4 lower than -- our duration of outages is below the CEA
5 average.

6 **Q.** Not showing here.

7 **A. MR. HALL:** Yeah, the red bar.

8 **Q.** Oh, one of the bars, yeah.

9 **A. MR. HALL:** Yeah, lower.

10 **Q.** Yeah, yeah. I'm picking and choosing here.

11 **A. MR. HALL:** You are.

12 **Q.** So anyway, since the 2012/13 General Rate Application,
13 Yukon has spent all of this money, but the reliability
14 performance on the interruptions per customer has not
15 progressed, in my opinion. Can you tell me, Mr. Hall,
16 how did the YEC utilize these indicators when you
17 prepared the capital plans?

18 **A. MR. HALL:** Mr. Chair, I think the capital
19 plan includes two major pieces of -- categories of
20 projects, the first being new supply projects. So
21 those are projects to meet new growth on the system,
22 and the justification for those is, you know,
23 documented in the resource plan as an example. And so
24 planning for those projects isn't really related to
25 reliability. I mean, that's to meet future needs to

1 allow us to keep the lights on, meets the customers'
2 demand.

3 Our reliability projects, so your sustaining
4 capital projects, of course, you know, a lot of the
5 intent is to maintain reliability, at least. I mean,
6 before you get to improving reliability, you have to
7 maintain it, and so we look at a number of factors,
8 including the age of the asset, the condition of the
9 asset, its likelihood of failing in the future, and
10 make an assessment. We rely on external asset
11 assessment reports prepared by experts in, say, hydro
12 or transmission, and based on that assessment of the
13 asset's condition, we make a decision whether to
14 replace it or refurbish it.

15 Q. So maybe you --

16 A. MR. HALL: In fact, it's more than just --the
17 bulk reliability stats, we focus in on the condition of
18 that particular plant or asset.

19 Q. Maybe you've answered this question, but I'm going to
20 ask it anyway. How do you -- how do you -- these
21 improvements that were made on your system, how do you
22 analyze how this is reflected into your performance
23 indicators? Is there an analysis made to see if you're
24 actually doing the right things?

25 A. MR. HALL: Well, it's difficult when you do

1 make -- complete a project to, in the same year,
2 immediately draw a line to the performance of the
3 system overall. I mean, that kind of data would be
4 accumulated over time, right? But as I said before,
5 the focus is on assessing the condition of, for
6 example, the Aishihik elevator structural steel. I
7 mean, there was a very good justification for why that
8 structural steel needed to be replaced. Was it
9 directly related to reliability? No, it was about
10 access to the hydro plant, about keeping that hydro
11 plant running. So there's not always a direct
12 correlation along the lines of what you're asking
13 about, but it doesn't mean that the projects aren't
14 justified or --

15 Q. I understand that.

16 A. MR. MOLLARD: Part of that, Mr. Chair, as well,
17 as we -- as Mr. Hall mentioned, we rely on assessments,
18 we have professional engineers come in and look at
19 critical assets and do an assessment of their relative
20 health.

21 What we're trying to do is fix them before they
22 start causing problems. So it -- it may be that a
23 project is justified in the sense that it's end of life
24 and needs to be replaced, but those failures haven't
25 started manifesting in terms of outages. There's not

1 always a direct link between them. Some things such as
2 brushing programs, it's more much linear in terms of, I
3 brush a line, I'm not going to have a tree outage. But
4 with some of the reliability-type projects, it's a bit
5 more complicated.

6 Q. Yeah, I can agree with that. Again, that's why I -- I
7 put in my premise that some of the hundred million
8 is -- is justified.

9 Mr. Hall, can you tell me what your line losses
10 were in 2017 -- or someone -- and also the forecasted
11 line losses for '18, while you're at it?

12 A. MR. MOLLARD: Sorry, actual or forecast.

13 Q. Actual. Actual ones for '17 and forecasted for '18.

14 A. MR. MOLLARD: Mr. Chair, I believe we discussed
15 that this morning. The line losses for 2018 was
16 8.1 percent.

17 Q. I believe they're forecasted the same.

18 A. MR. MOLLARD: Just checking that.

19 Q. And if you're looking back, perhaps you can get me the
20 line losses, the last GRA, the last --

21 A. MR. MOLLARD: So 8.8 percent was the forecast
22 for 2017 and 2018.

23 A. MR. HALL: 2018 approved was 8.7 percent.

24 Q. Okay. Now, this is probably a little more clear
25 forward because transmission costs are -- are a little

1 more accountable, I guess.

2 Page 5-29 of the application. What I'm looking at
3 is the basic costs for transmission and distribution
4 because that's where our -- I gather your line losses
5 would be improved.

6 **A. MR. MOLLARD:** Yeah. Just to be clear, this is
7 only transmission and distribution projects under a
8 million.

9 **Q.** Oh, so there's a lot more spent than that. I've got
10 5.7 there coming from distribution and 3.1 from -- or,
11 pardon me -- 5.7 from transmission and 3.1 from
12 distribution.

13 **A. MR. HALL:** Okay. Yeah, we have the
14 information in front of us.

15 **Q.** So you've at least spent 9 million on these two since
16 the last application, yet your line losses have not
17 improved. Can you explain that?

18 **A. MR. HALL:** Yeah, certainly. Mr. Chair, I
19 think it's important to understand how line losses
20 arise. They're a function of resistance in your
21 transmission lines.

22 **Q.** Yes.

23 **A. MR. HALL:** Which is a function of the amount
24 of power that's transmitted and the distance, and so
25 it's really related to where power's generated on the

1 system, how much our load is. It doesn't really have
2 any bearing on -- or maintenance on the system doesn't
3 improve line losses. Line losses are a function of the
4 system. You'd have to be replacing conductor to really
5 move -- move the dial on line losses. So they're
6 unrelated.

7 Q. So these new facilities that you built in Takhini and
8 when you put a new transformer up, this does nothing
9 to -- to help line losses?

10 A. MR. MOLLARD: Well, they're generally
11 like-for-like replacements. We're not -- we're not
12 necessarily upgrading or changing the equipment. It's
13 just a replacement for one that's end of life, so you
14 wouldn't necessarily expect losses to improve on that
15 basis.

16 Q. Why not? Are they not -- hasn't our technology
17 improved to make these new --

18 A. MR. MOLLARD: Not for things like poles and
19 crossarms. Like, if you're doing line maintenance and
20 you replace a pole, it's not going to affect the losses
21 at all.

22 A. MR. HALL: The loss is impacted by the
23 conductor, as I mentioned --

24 Q. Yes.

25 A. MR. HALL: -- which is the wire.

1 Q. Yeah.

2 A. MR. HALL: If you replace the wire, you would
3 have -- you would -- there would be possibility of a
4 reduction in line loss. But, again, these costs do not
5 include replacement of conductor.

6 Q. What about the transformers?

7 A. MR. HALL: I'm not sure which transformers
8 you're referring to.

9 Q. Any -- any transformers that have been changed and
10 upgraded and --

11 A. MR. MOLLARD: I can't think of a transformer, a
12 substation transformer replacement project in some
13 number of years, certainly before this GRA.

14 Q. How about line transformer replacement in the lines?

15 A. MR. MOLLARD: Transformers --

16 Q. In your distribution lines. You have distribution
17 lines, as well, you have...

18 A. MR. MOLLARD: For our -- for our system the way
19 we're set up, the vast majority of our losses are going
20 to come off the bulk power system, not distribution, so
21 it's going to be in generators, sub -- transmission
22 substation, transmission substation, transformers, and
23 power line, transmission power lines.

24 Q. Okay. Mr. Hall, can you give us a bit about how
25 you're -- you're new on the job, you've been there,

1 you've been hitting the ground hard, from what I hear.
2 Can you give us a bit of what you have -- have acquired
3 on your company's performance?

4 **A. MR. HALL:** **Mr. Chair, it's very a open-ended**
5 **question, our company's performance, as it relates to**
6 **this GRA or --**

7 **Q.** You haven't worked on other -- in other electrical
8 area -- electrical companies, electrical corporations.
9 Have you worked on other electrical corporations?

10 **A. MR. HALL:** **Have I worked for another utility?**
11 **No.**

12 **Q.** No. Okay. Appendix -- application appendix 5-4-2.

13 **A. MR. MOLLARD:** **I believe that's page 257.**

14 **Q.** Deferred projects between a hundred and a million.

15 **A. MR. HALL:** **Okay.**

16 **Q.** Okay. I want you to focus on the development of asset
17 management. Now, this states here: (as read)

18 "Currently there is no asset management
19 methodology or plan for managing
20 critical hydro and transmission assets
21 at Yukon Energy Corporation."

22 Is Yukon Energy Corporation not just celebrate its 35th
23 birthday?

24 **A. MR. HALL:** **I believe it's the 30th.**

25 **Q.** 38th?

1 **A. MR. HALL:** **30th.**

2 **Q.** 30th. Okay. So after 30 years of operations, you have
3 never developed an asset management methodology or plan
4 to manage critical hydro and transmission assets.

5 **A. MR. HALL:** **Mr. Chair, I think there's some**
6 **context required that will be helpful in understanding**
7 **that statement. Historically and up to this point, our**
8 **asset management methodologies have largely focused on**
9 **what we would call interval based maintenance. So we**
10 **go into a hydro unit every ten years and do an**
11 **overhaul, and then the overhaul is a -- is a major**
12 **capital works, as we did on HH-4, which we are asking**
13 **to be paid for. So it's interval based time; it's not**
14 **necessarily always triggered by condition.**

15 As I said before, we then layer on top of that
16 assessments where we bring in typically external
17 consultants to assess various assets, would they be
18 transmission lines, hydro units, or thermal. You know,
19 what I found when I -- when I arrived at YEC is that
20 that -- that framework that we've been using is not
21 necessarily kept up with -- with best practices in the
22 industry, and what's called asset management in the
23 utilities business has moved to a more condition based
24 or risk based approach, where you focus more on, you
25 know, is this asset in bad condition or not, and

1 indeed, how much risk does it pose if it was to fail?
2 And so actually what Mr. Rondeau's referring to is a
3 project that we have underway to upgrade and bring in
4 some best practices around moving towards either
5 condition or risk based asset management. So I think
6 it's fair to say that we had some work to do to
7 implement those best practices, and that's -- that's
8 the justification that I think we went into in
9 justifying that -- that deferred study that's underway.

10 Q. Will this be done in-house?

11 A. MR. HALL: No, we're bringing in a team of
12 consultants to help us with that, so led by Hatch.

13 Q. Why?

14 A. MR. HALL: Why?

15 Q. Why?

16 A. MR. HALL: Because they're experts in it.
17 It's a very specialized field.

18 Q. LNG. I guess our first real concern, and it has been
19 for a long time, is the LNG plant was designated and
20 sold to us on a capacity backup. Now we are getting
21 rumblings, and it probably -- from what I gather, it's
22 already happening, this is -- this unit is being used
23 for base load. Now, UCG has researched many of the
24 documents, I have many of them here, most of them are
25 through transcripts, where Yukon Energy has stated that

1 it was for backup only. I have many of them. I can
2 read them out, if you wish, or you can just take my
3 word. Most of it comes from the LNG Part Three
4 application. Do you want me to read some of these or
5 are you -- would you agree that originally it was sold
6 as backup? It was sold to us and the board.

7 **A. MR. HALL:** Mr. Chair, I'm not sure I agree
8 that it was only sold as backup. We certainly said
9 that it was going to be used for backup. I think we
10 were also pretty clear that it was going to be used in
11 conditions of low water, where you have a reduction in
12 your hydro output, and if -- you know, I think if
13 you're -- you've made a statement around it's now being
14 used for backup, I'm not quite -- sorry, for base load
15 I'm not exactly sure what you're referring to there,
16 but if I look at the way we've used these engines over
17 the last winter, it was largely due to reduced hydro
18 output for Mayo, so a drought in the Mayo watershed.
19 So I think our use of the engines to date has been
20 consistent with what we -- we had explained.

21 **Q.** Okay. That's good. I can agree with that. Going
22 forward, we get a large customer on line, will this
23 unit be used as base load then?

24 **A. MR. HALL:** Mr. Chair, that's -- that's a more
25 complicated question to answer because it's dependent

1 on what we assume will get built in terms of future
2 renewable resources. So if you look, for example, in
3 the resource plan in terms of looking at how we would
4 meet our future energy needs going forward, we showed
5 very clearly that if we're able to build future
6 renewable resources, that the LNG plant may well be
7 used in some interim years, but as long as those new
8 renewables are available, that its usage actually
9 declines in the outer years.

10 Q. Otherwise, the LNG will be used as base loads.

11 A. MR. HALL: Well, it depends. I mean, the
12 resource plan and the action plan in that resource plan
13 outline plans to develop future renewables, but we
14 haven't developed them yet, we haven't got them
15 financed yet, so can I say with certainty that they'll
16 developed? No, but that's the plan that we
17 articulated. And it showed a use of the LNG plant on
18 an interim basis for, first of all, the near two years
19 and then on decline towards the outer --

20 Q. But this -- is not how we were sold the LNG during the
21 hearing. We were sold that it was backup, and possibly
22 I do agree that it was also water shortage backup, but
23 not base load, we were sold that it would not be used
24 as a base load.

25 A. MR. OSLER: Mr. Chairman, maybe to assist this

1 discussion, there's wording and there's numbers. I
2 agree with Mr. Rondeau that the terminology somewhat
3 seemed to be very important among various people about
4 the words base load and backup and everything else, and
5 I'm not going to discuss that. I'm just going to say
6 that the forecasts that were used in the LNG hearing
7 justified the commitment for doing LNG based on two
8 requirements; first one was that the company needed to
9 have a capacity replacement for the two Mirrlees, and
10 that was the primary driver of it. That one way or the
11 other, whether we built the LNG units or the diesel
12 units or the dual fuel units, we had to get about 13
13 megawatts right away, or within the next few years.

14 If all we'd had to do was that, we had no
15 long-term average thermal requirement, using the 2016
16 resource plan, we would have argued that we should put
17 in diesel in order to save the capital cost, because
18 the argument that was made for using LNG was not only
19 was it replacing the capacity needed, or providing the
20 capacity requirement to meet a shortfall, but it was
21 also going to save fuel costs compared to if we put in
22 diesel. And the only way we would save fuel costs is
23 if we had a long-term average requirement for the fuel
24 generation. So we had a forecast at that time, and I
25 think for the year 2017 it was around 26 or 27 gigawatt

1 hours that we were forecasting for long-term average
2 thermal, we can get the number if somebody needs it, or
3 we can even get the original exhibit that came out at
4 the end of the LNG hearing to show the table.

5 I just want to make it for the record that
6 Mr. Rondeau's perfectly correct; certain parties from
7 YEC and elsewhere talked a lot about backup versus not
8 backup -- baseline. But the numbers upon which the
9 Board reviewed it and recommended going forward to the
10 government had long-term average thermal requirements
11 and not just during a drought, but the long-term
12 average process which is driven mostly by droughts.

13 And the numbers were in fact higher than anything
14 we've seen recently, but the last 2017 actuals, one of
15 the things we noted the other day, the number was very,
16 very close, within a gigawatt hour, ironically, of what
17 we had forecast in the LNG hearing for 2017.

18 So maybe we can move on from the debate about the
19 words and talk about what the point is of any royal LNG
20 (verbatim) units and what would drive them, but that
21 was the rationale for those ones.

22 Q. Let's look at the amounts of the increase in this
23 project above the Part Three hearing. I'm looking
24 for -- I have numbers down, but I am not certain where
25 I got the numbers. I have it as construction cost 4.09

1 above the 24 -- 27.3 million that was okayed.

2 **A. MR. HALL:** **Yes, that's correct.**

3 **Q. The engineering and management, 1.54 over the**
4 **3.48 million.**

5 **A. MR. HALL:** **I think to shortcut to the answer,**
6 **it was 4.45 million over -- in aggregate.**

7 **Q. Okay.**

8 **A. MR. HALL:** **That's on page 524.**

9 **Q. I just want to break down, though, the difference**
10 **because my questions might be just concerning one --**

11 **A. MR. HALL:** **Sure.**

12 **Q. -- particular part?**

13 **A. MR. OSLER:** **If you go -- for everybody, if you**
14 **want to get a table that has all it broken down,**
15 **YUB-YEC-1-70 has a table attached that gives you all**
16 **the detail you're looking at and adds up to the**
17 **original number, plus the number that it ended up being**
18 **for the 5.4 million increase.**

19 **THE CHAIR:** **Have you got the page reference?**

20 **A. MR. OSLER:** **There will be in -- it will be in**
21 **Exhibit B-4. I don't have -- can't give you the page**
22 **reference. It's at the very end of the answer.**

23 **Q. MR. RONDEAU:** **So we agree on the -- sorry --**
24 **I'll wait.**

25 **THE CHAIR:** **I think it's B-4, 253. Is that --**

1 254. B-4, 254. I have that's the outage reports.

2 **A. MR. OSLER:** **YUB-1-70.**

3 **THE CHAIR:** Page PDF 957 of B-4. Okay.

4 Okay. Go ahead.

5 **Q. MR. RONDEAU:** Okay. So we agreed that the
6 construction costs were 4.09 million above the LNG
7 costs of during the LNG hearing of 27.3; correct?

8 **A. MR. OSLER:** **Correct.**

9 **Q.** The engineering and management, 1.54 million over the
10 3.48.

11 **A. MR. HALL:** **Correct.**

12 **Q.** And the owner's cost, .6 million over the 2.43 million.

13 **A. MR. HALL:** **Correct.**

14 **Q.** I won't get into the same dilemma yesterday as I did
15 with contrary evidence (verbatim), but -- contrary
16 numbers, but there certainly are issues there.

17 UCG also wants the Board to know that the
18 Utilities Consumer's Group went through an ATIP
19 application to receive a better breakdown of the LNG
20 costs because we didn't feel that the proper
21 information was given to us during the hearing.

22 We went through this process for several months
23 and ended up with a five-line item breaking down the
24 owner's costs, which don't match with -- with the
25 numbers that we just went through. Can you tell us why

1 you were reluctant to release this information more
2 openly?

3 **A. MR. MOLLARD:** I'm sorry, Mr. Chair, I -- I don't
4 recall that process. I don't -- I haven't seen that
5 document. I can't -- I can't say.

6 **Q.** Sounds like a Mr. Morrison answer.

7 **THE CHAIR:** Well, apart from that aside,
8 Mr. Landry, do you have any -- any assistance for us on
9 his question or...?

10 **MR. LANDRY:** I have no knowledge of what
11 he's -- it's a premise in a question that I have no
12 knowledge of the premise. So if -- obviously, it's not
13 on the record, so I don't know where a question like
14 that gets anybody, but.

15 **MR. RONDEAU:** Well, I'm certain that Mr. Moore
16 remembers and ATIP request by UCG, there was enough
17 information going back and forth. I do have a
18 breakdown of that particular thing where it gives the
19 cost for -- for the -- in-house costs that I can -- I
20 can put on the record if --

21 **MR. LANDRY:** Well, once again, this is somewhat
22 unusual, but maybe the best way to do is, why don't you
23 put the questions -- why doesn't Mr. Rondeau just put
24 the questions to Mr. Mollard and see if he can confirm
25 for the record what numbers he's requesting. I mean,

1 if -- if it is what he says it is, then it should get
2 confirmed by -- by Mr. Mollard.

3 THE CHAIR: Without using --

4 MR. LANDRY: Without putting a document on the
5 record.

6 THE CHAIR: Without using documents. And if
7 those documents were available, it could have been
8 submitted to Mr. Landry yesterday.

9 MR. LANDRY: Yeah.

10 THE CHAIR: We talked about process before.
11 All right. So put the question to Mr. Mollard,
12 please.

13 Q. MR. RONDEAU: Okay. I'll just go to the final
14 number that was given, the grand total that we were
15 given then -- this was April 2014 -- where it stated
16 the -- the tracked internal costs were 1,232,484. Now
17 we hear in here that it's over 2.43. So those are very
18 contradicting, almost -- almost over a million, 1.2
19 million more.

20 A. MR. MOLLARD: And you're asking for the why it's
21 different?

22 Q. Why?

23 A. MR. MOLLARD: The April 2014, the LNG project
24 was not complete. We didn't put those units into
25 services until December of 2015, so the number he would

1 have would not have been a final number for
2 construction costs.

3 Q. When was it completed?

4 A. MR. MOLLARD: I believe the units were
5 commissioned in December of -- no, July -- sorry, I'm
6 getting confused -- July was of 2015 was when the
7 commissioning was done, so roughly a year and two
8 months after that April 14 date.

9 Q. Okay. I'll look into that a little bit more for
10 argument, if need be.

11 Regardless, the process that we had to go through
12 to get the little amount of information that we got
13 sent up red flags. Now, the YUB report to the
14 Commissioner -- January 15th, '07, page 50 and '51 --
15 stated: (as read)

16 "In the last resource plan, the Board
17 recommended that any subsequent major
18 project, that YEC must detail how it has
19 adhered to the direction of the auditor
20 general's report."

21 Where in this LNG project have you demonstrated that you
22 complied with the auditor general's contracting policies
23 and project management report?

24 A. MR. MOLLARD: I just want to be clear. So is
25 this the Utilities Board report to...?

1 Q. The commissioner?

2 A. MR. MOLLARD: The commissioner. I'm sorry,
3 Mr. Rondeau, I don't -- I don't know what report you're
4 referencing.

5 Q. It was on the auditor general's plan when we reviewed
6 that --

7 A. MR. MOLLARD: But 2007?

8 A. MR. HALL: Oh. What's the date of that
9 report --

10 A. MR. MOLLARD: I thought you were referring --

11 Q. January 15th, 2007.

12 A. MR. HALL: Oh, that one.

13 A. MR. MOLLARD: So that was the resource plan
14 report?

15 Q. It was after -- after the Mayo-Dawson transmission line
16 where an audit was done by the auditor general. We
17 reviewed this, and the Board recommended this
18 particular notation that I just read.

19 MR. LANDRY: Mr. Chair, my suggestion is we get
20 just a little clarity, which we're trying to get
21 clarity, get support. So if that's the specific report
22 in 2007, that's the one that you'd like to refer to,
23 Mr. Rondeau?

24 Q. That's what I referred to, page 50 and 51.

25 MR. LANDRY: 50 and 51, and obviously -- and

1 making no comment on appropriateness -- it's just not
2 on the record now.

3 THE CHAIR: What's the title of that report?

4 MR. RONDEAU: It's just the YUB report to the
5 commissioner.

6 A. MR. OSLER: Is it the report on the
7 Carmacks-Stewart transmission line?

8 Q. The auditor -- after the auditor general did his
9 recommendations.

10 A. MR. OSLER: But is it the Part Three report to
11 the Minister on the Carmacks-Stewart transmission
12 line --

13 Q. Exactly.

14 A. MR. OSLER: -- which happened after the
15 auditor general's.

16 Q. Exactly.

17 A. MR. OSLER: So I think it's report of this
18 Board on the Part Three inquiry that you did under the
19 request from the minister on the Carmacks-Stewart
20 transmission line. I think that's what he's referring
21 to, and it makes sense for 2007 it would be about the
22 right time. It's not on the record in this hearing at
23 the moment.

24 MR. LANDRY: We're trying to track it down
25 through your website, just so that we've got the right

1 report.

2 THE CHAIR: Okay. We'll just take a second
3 while you do that.

4 MR. LANDRY: Can I have a moment with
5 Mr. Rondeau maybe?

6 THE CHAIR: Yeah, go ahead.

7 We're just going to take a five-minute -- a
8 five-minute break here. The Board will just go out for
9 about five, and you guys will sort that out.

10 MR. LANDRY: I think we found it, but five
11 minutes would be fine.

12 THE CHAIR: Okay.

13 MR. RONDEAU: Or we can continue.

14 Whichever's --

15 THE CHAIR: No, no, we'll take the five.

16 (ADJOURNMENT)

17 THE CHAIR: Thank you, please be seated.

18 So I think we've had -- you had a discussion, and
19 there's some agreement on how this question's going to
20 get asked or what the question is going to be.

21 MR. LANDRY: There's agreement on this, that
22 the document that Mr. Rondeau was referring to was the
23 Board's report to the minister for the 2005/2006
24 resource plan, and so the quote that he was reading
25 from is an accurate quote, and so I think he could put

1 that quote to the -- to the panel appropriately and ask
2 the question.

3 THE CHAIR: Without having to introduce any
4 aid to cross.

5 MR. LANDRY: No, we don't need that.

6 THE CHAIR: Thank you. Go ahead. Ask that
7 question.

8 Q. MR. RONDEAU: Okay. Do you wish me to read that
9 quote out again?

10 A. MR. MOLLARD: Yes, please.

11 Q. Okay. (as read)

12 "The Board recommends that YEC adhere to
13 all outstanding recommendations as
14 outlined in the auditor general's
15 Mayo-Dawson Transmission System Project
16 Report. In addition, in any subsequent
17 major project, YEC should detail how it
18 has adhered to the directions in the
19 auditor general's report."

20 And my question was, how did you make sure that this
21 recommendation was adhered to in the LNG project,
22 especially regarding contracting procedures and project
23 management?

24 A. MR. MOLLARD: So just going back, Mr. Chair, to
25 the time of the Mayo-Dawson report and the work coming

1 out of that, we -- we agreed with the recommendation
2 that our purchasing policies at the time of the
3 Mayo-Dawson project in the early 2000s were not as
4 robust as they could be. We did a detailed review of
5 those procedures, policies and procedures, updated them
6 over the course of, I think, 2007, '08, '09, to bring
7 those in line with best practices.

8 And with respect to the LNG project, we did use
9 competitive procedures for the major contracts that
10 we -- that we let to get that work done.

11 Q. I'm not certain if that demonstrates to us that you've
12 adhered to the auditor general's recommendation.

13 A. MR. MOLLARD: Sorry, which specific
14 recommendation did we not follow? I'm not clear.

15 Q. Okay. I gave you the two that I wanted to zone in on,
16 and you've answered that.

17 Now; UCG's understanding of accounting practices,
18 as I say, there's sometimes there's some discrepancies
19 in the numbers that we get. There's a certain degree
20 of choice in the methods of measurement, criteria of
21 recognition, and even defining accounting entities.
22 Would you agree to this, Mr. Mollard?

23 A. MR. MOLLARD: No, I'm sorry, I can't. I'm not
24 aware of the regular -- what -- sorry, which guidelines
25 are you referring to?

1 Q. It's basic accounting practices that are followed by
2 corporations.

3 A. MR. MOLLARD: Okay. I'm going to have to ask
4 for further clarification, Mr. Chair. It's just that
5 we have IFRS standards that we follow for our annual
6 financial statements, and we also have utility
7 regulations that we follow for our utility statements.
8 So can you be -- can you clarify for me which -- what
9 you're referring to?

10 Q. That's fine. I asked for the contracting policies in
11 this particular project, and -- and also the project
12 management. I've got some questions that'll probably
13 clarify that anyway.

14 Were any of the feasibility reviews, permitting,
15 planning studies for LNG sole-sourced?

16 A. MR. MOLLARD: I -- I don't know which studies
17 you're referring to, Mr. Rondeau.

18 Q. LNG, anything to do with the LNG; feasibility studies,
19 feasibility reviews, permitting to the -- to the -- to
20 the Water Board, the --

21 A. MR. MOLLARD: I'm sorry, Mr. Chair. I can't
22 remember every contract we did for every study we did
23 for LNG. I can't -- I can't truthfully honest that
24 (verbatim) on the stand today.

25 Q. Can you get us an undertaking to -- to show us

1 sole-sourced contracts?

2 A. MR. MOLLARD: So these would be studies directly
3 related to the development of the LNG plant.

4 Q. The LNG -- yeah, feasibility reviews, permitting,
5 planning studies.

6 A. MR. MOLLARD: Permitting studies. I don't...

7 Q. Permitting. Just proper permitting.

8 A. MR. MOLLARD: Just permitting.

9 Q. I guess it would only be basically with the -- with the
10 Board --

11 A. MR. MOLLARD: These are the projects --

12 Q. -- because there wouldn't be any Water Board.

13 A. MR. MOLLARD: You're interested in the projects
14 that lead up to the construction?

15 Q. Yes.

16 A. MR. MOLLARD: Okay. So for feasibility projects
17 leading up to the construction of the LNG plant, the
18 contracts underlying that.

19 Q. And the planning studies.

20 UNDERTAKING - TO PROVIDE SOLE-SOURCED
21 CONTRACTS FOR FEASIBILITY PROJECTS
22 LEADING UP TO THE CONSTRUCTION OF THE
23 LNG PLANT AND THE UNDERLYING CONTRACTS

24 Q. MR. RONDEAU: And I guess it goes even further.
25 My next question is, were there any of the stages of

1 the development, management contracts for LNG
2 sole-sourced?

3 **A. MR. HALL:** There were -- to my recollection,
4 without the information in front of me, there was one
5 contract sole-sourced to a First Nation-owned business
6 as part of the -- the First Nation benefits package for
7 the project.

8 **A. MR. MOLLARD:** I believe it was about \$80,000 for
9 site clearing.

10 **Q.** None to any consultant company that you're aware of.

11 **A. MR. MOLLARD:** Not that I'm aware of.

12 **Q.** Not even to InterGroup?

13 **A. MR. MOLLARD:** I -- off the top of my head, I
14 don't think InterGroup was involved in the -- in any
15 way in the construction project.

16 **Q.** Any of these phases. They were definitely involved in
17 some phases of the project. --

18 **A. MR. HALL:** Yeah, they provided analysis
19 support. I mean, I recall in my early days they were
20 helping with documentation of the project in its early
21 phases. They typically wound down towards, once we got
22 into construction.

23 **A. MR. OSLER:** Just for the record, we certainly
24 assisted Yukon Energy in the YESAB filing. It wasn't a
25 Water Board filing. We did analysis from time to time

1 as a member of a steering committee that was doing
2 planning, we gave testimony to this Board during the
3 Part Three inquiry, and we may have been asked for
4 comment or inputs from time to time during
5 construction, but we had nothing to do with the
6 construction of the project, in terms of its management
7 or planning or execution, if that helps.

8 Q. That helps.

9 A. MR. HALL: Mr. Chair, I think another comment
10 would be we talked at length yesterday about sole
11 sourcing work to consultants. I mean, this is ground
12 we've been over already, and I think I'd outlined at
13 that time that, you know, sole sourcing isn't
14 necessarily contrary to our procurement practices, you
15 know, given the size of the relevant contracts. I
16 mean, this feels like we've been through this before,
17 yesterday.

18 Q. Yes, and I'll -- I'll ask the same thing: When you
19 don't -- when you sole source a contract, you're not --
20 you're not demonstrating to your ratepayers that you
21 are getting the best bang for your buck. You simply
22 give this contract out, and here it is.

23 A. MR. MOLLARD: I can't -- I can't agree with
24 that, Mr. Chair. I think we talked about this
25 yesterday. We have a process that project managers are

1 required to follow for requesting a sole source
2 document. They are required to identify why they have
3 to sole source it, be it an emergency or the only
4 source of supply, or etcetera, but they also have to
5 answer a value proposition question, and we ask them to
6 compare the rates that they're going to pay under this
7 contract to either another contract that you've done
8 previously, published price lists, that sort of thing,
9 but they have to come up with some evidence to prove
10 that there's a value to that -- that price you're going
11 to pay. So it's not that they're given out without
12 testing that number.

13 Q. Can you please update us onto whether the March 27th
14 LNG Part Three Table 4-3 is showing savings of the LNG?

15 A. MR. MOLLARD: Sorry, was that a table in the
16 application you're referring to?

17 Q. No, it was a table in the proposed Whitehorse diesel -
18 natural gas conversion project, page 32, and it shows
19 us the savings broke up -- broke down -- the expected
20 savings.

21 THE CHAIR: You want to give us a reference
22 where we're going to find that?

23 MR. RONDEAU: The proposed Whitehorse diesel -
24 natural gas conversion project, which is -- came from
25 the application for an energy project certificate.

1 THE CHAIR: Is that on the record of this
2 proceeding?

3 MR. RONDEAU: I don't believe so.

4 THE CHAIR: So if you have a particular
5 request from there that you can put without having the
6 document, then ask it.

7 MR. RONDEAU: If they don't have it in front of
8 them, though, they can't -- I mean, I can tell them
9 what it states the savings would be, and what I would
10 like is an update of whether these savings were
11 achieved.

12 THE CHAIR: Why don't you ask them that
13 question.

14 Q. MR. RONDEAU: Okay. So from this table, it
15 shows -- you showed a savings of 2.7 million between
16 2015 and 2018.

17 A. MR. OSLER: From this table that you're
18 looking at, it shows what, sorry, again?

19 Q. It shows the savings, proposed savings from putting an
20 LNG plant in, rather than --

21 A. MR. OSLER: And it sums it up over the years
22 2014 to 2018?

23 Q. Correct.

24 A. MR. OSLER: And it comes to that total over
25 that time period?

1 Q. Yes.

2 A. MR. OSLER: Okay. So you're presumably
3 looking at the original, or the updated --

4 Q. I'm looking at just the 2016. The 2017 and '18 are
5 also included in that.

6 A. MR. OSLER: Okay. Is there a date on that
7 document, by any chance?

8 Q. Yes; December 9th, 2013.

9 A. MR. OSLER: Okay. So you're looking at the
10 original one and not the updated version that was filed
11 with the Board confirm that in that dual fuel diesel
12 option there were upgrades included in that cost
13 estimate to accommodate a third 6.7 megawatt engine in
14 late February, which changed some of those numbers in
15 that table that you're looking at. The table that --
16 so the short answer is no.

17 Q. There are different savings than what shows here.

18 A. MR. OSLER: The savings you see in that table
19 were not achieved.

20 Q. They were not achieved.

21 A. MR. OSLER: No. That's the short answer.

22 Q. And can you give me the document table that shows me
23 exactly what was saved?

24 A. MR. OSLER: Well, the answer to the question
25 that Mr. Maissan asked is JM-1-27, which we discussed

1 earlier today, was his asking us to update that table
2 based on certain key information. So I would reference
3 you and others that, in this proceeding, that's the
4 closest table of the same type of the one you're
5 looking at. Repeating that process in light of the
6 actual capital costs, the actual contribution from the
7 government, and the most recent prices for diesel -- at
8 least the ones used in this GRA filing -- as well as
9 the volumes for long-term average that have been used
10 in this proceeding, not updated for what actually
11 happened in 220 -- in 2017. So that's the best on the
12 record.

13 The one you were just talking about with
14 Mr. Mollard had in the table the capital cost in the
15 updated version that was provided in the hearing. It
16 just doesn't have all the other elements that you're
17 looking at in that table.

18 Q. Can you give us a ballpark figure of what the savings
19 were in -- from -- from 2015?

20 A. MR. OSLER: Well, looking at the answer to
21 Mr. Maissan's question in table Number 1, in 2017, the
22 answer in that question, based on the GRA forecast
23 volumes, saving was about 1.7 million after all of the
24 actual capital costs and contributions. That could be
25 updated to take into account the long-term average

1 number for this 2017 in actual fact is more like 27
2 gigawatt hours rather than 14, and the number would
3 grow accordingly, but others can do that calculation.
4 So it's a lot lower than the number you're looking at,
5 but it's still a saving after you take into account
6 fuel and capital.

7 Q. I guess I'm -- I still have my -- get my head around
8 the -- whether there were some of the LNG costs that
9 went to the preliminary engineering on the work of the
10 diesel plant operations -- or alterations. Was there
11 any money --

12 A. MR. OSLER: There were monies spent in the
13 capital costs for planning, and the original planning
14 work done included a consultant, B.B.A., doing
15 assessments of replacing the two Mirrlees with dual
16 fuel engines inside the plant, which Mr. Maissan gave
17 me a copy of that earlier today. So there are some
18 costs in here. They would have been costs totally
19 reflected when we had the Part Three hearing because
20 they'd already been spent, so the changes that have
21 occurred since the Part Three hearing are going to
22 focus in the actual execution of the project more than
23 the planning of it.

24 A. MR. MOLLARD: And that -- just to be clear, that
25 treatment is consistent with our accounting policy.

1 Any time we do a feasibility study looking at options
2 for a project, if the decision is made to select one of
3 those options, the feasibility costs become part of the
4 capital project ultimately.

5 Q. Can you tell me what the costs associated with the
6 third turbine from Part Three review, what was your
7 estimated cost?

8 A. MR. MOLLARD: Sorry, from the Part Three or the
9 updated?

10 Q. From the Part Three.

11 A. MR. MOLLARD: Was it 5.5 million? Yeah, it was
12 approximately 5 million. I don't have the exact number
13 at my fingertips.

14 A. MR. OSLER: And it's now -- it's in this
15 hearing, in the updated version, it's 8.9 million.

16 A. MR. MOLLARD: That's in YUB-1-71.

17 Q. And when do you propose to put this into rate base?

18 A. MR. MOLLARD: It is not in this application.

19 Q. It's not in this application, okay. None of the costs?

20 A. MR. MOLLARD: In WIP, I'm not asking for rates
21 for them, it's just the costs incurred to date are
22 sitting in Work in Progress.

23 Q. Yes. And I'm sure the information is somewhere, but
24 I'm going to ask anyway: How does YEC propose to
25 depreciate these LNG facilities?

1 **A. MR. MOLLARD:** Well, they'll be depreciated, we
2 have an approved depreciation schedule for all the
3 assets. There's obviously a number of different
4 classes of assets there. The engines themselves,
5 subject to check, I believe -- I know we did consult
6 with the engine manufacturer about the expectation
7 around its life, and I want to say it's 40 years.

8 **Q.** But different parts are different.

9 **A. MR. MOLLARD:** Yeah, so there's -- I mean,
10 fencing is 30 years, accessory electrical equipment
11 is -- is, I think, 45 years, substation equipment,
12 45 years, the fuel tank or the whole fuel skid was, I
13 believe, 45 years. Please don't quote me on that, I
14 have to make sure on those. But, yes, the bottom line,
15 there's several different classes of assets involved in
16 the project that have their own depreciation rates.

17 **Q.** Now, it's our understanding that the Kwanlin Dun
18 First Nations has invested \$21 million into this
19 facility. Is that -- is that an accurate figure?

20 **A. MR. MOLLARD:** No, they have an investment with
21 our parent Yukon Development Corporation. They are not
22 invested directly in the plant.

23 **Q.** So this \$21 million is not going into the rate base.
24 You're not -- you're not going to place that into
25 the -- into the -- into the rate base. Is that what I

1 get from this?

2 A. MR. MOLLARD: Well, just to be clear, that's not
3 part of rate base. You're -- the cost of that debt is
4 not in my revenue requirement, if I could say it that
5 way. Is that answer...

6 Q. It's in debt, not in -- not in equity.

7 A. MR. MOLLARD: Not in equity.

8 Q. Okay. Okay. The other one was on cost savings, which
9 I've gone through. So I believe I've let you off easy
10 with the LNG: Oh -- oh, no, that's the savings.

11 So we can move on to Gladstone.

12 A. MR. MOLLARD: Sorry, Mr. Chair, if I could just
13 clarify. My colleague just handed me a reference. So
14 in YUB-YEC-1-18-B, we have a table in there that lists
15 the depreciation lives related to the assets
16 constructed as part of LNG.

17 Q. Can you give me that table again?

18 A. MR. MOLLARD: Sure, YUB to YEC-1-18.

19 Q. YUB-1-18?

20 A. MR. MOLLARD: Yeah, Table 1 at the back.

21 Q. Now, I said already that some parts of LNG has sent up
22 red flags. Gladstone has set a fire under us. Is the
23 Gladstone research project ever to be used or useful.

24 A. MR. HALL: No.

25 Q. Now, please refer to YES-1-12 and YUB-2-30 -- YSC. No,

1 sorry, it's YUB-2-30, and the reference comes from the
2 Board as why it came from Y -- Yukon Conservation
3 Society. It's a reference, but it's actually the Board
4 that asked.

5 **A. MR. OSLER:** **Mr. Rondeau, you only asked us to**
6 **look at YUB-2-30, or was there another reference as**
7 **well?**

8 **Q.** YUB-2-30, and it's the Attachment 1, as well.

9 **A. MR. OSLER:** **Okay. That's fine.**

10 **Q.** Where it shows the Kuane First Nation resolution. Now,
11 this was not the first time you were asked about
12 this --

13 **THE CHAIR:** Just hang on one second. Let's
14 get that reference.

15 **MR. RONDEAU:** Yes. Sorry?

16 **THE CHAIR:** We're just getting the reference
17 where it is.

18 **A. MR. OSLER:** **It'll be B-19.**

19 **THE CHAIR:** B-19 again?

20 **A. MR. OSLER:** **Yeah. Oh, no, it's 2.**

21 **THE CHAIR:** YUB-2-30, and you said it's a
22 table on there?

23 **MR. RONDEAU:** It's an attachment of the Kuane
24 First Nation resolution.

25 **THE CHAIR:** Page 469. Is that right?

1 MR. RONDEAU: I don't know. It just says A-1 to
2 A-3 of my -- was the name, I guess an email to
3 Mr. Brandt.

4 THE CHAIR: Go ahead.

5 Q. MR. RONDEAU: Now, this IR from the Board came
6 from a previous IR from the Yukon Conservation Society
7 as it shows in YUB-2-30. UCG, as well, asked questions
8 on this, as far back as the 2012/2013 GRA.

9 Now, we never got any answers of all of this. We
10 were rolled over and rolled over until the Board
11 finally asked about this, and then we get the real
12 answer, and we get the resolution that the Kluane
13 First Nations did not want this project to go forward.

14 This was made in 2010. Why did the project ran
15 forward well (verbatim) into 2015 and '16, costing
16 millions of dollars which you now want to place on our
17 rate base?

18 A. MR. HALL: Mr. Chair, I think -- I think
19 the -- there's a couple points to note here. Other
20 than interest that continues to accumulate, we haven't
21 spent any money since the last GRA on this project. So
22 I do not agree with the statement that we accumulated
23 millions and millions of dollars since the last GRA.

24 Secondly, more broadly, obviously, First Nation
25 support for projects such as this is important. I

1 mean -- and it's formally tested and assessed during
2 the YESAB process and the Yukon Water Board. And
3 unfortunate reality of what we ran into in this project
4 is that we went back to the First Nations after the
5 last GRA and to -- to ask them again whether there was
6 any chance of them supporting this project. And -- and
7 we got the answer "no."

8 So -- so there was a -- there were subsequent
9 developments since the last GRA that have led us to the
10 conclusion that this project has a very low probability
11 of -- of receiving a positive assessment through YESAB,
12 and therefore, we are proposing not to move forward.

13 Q. Would you not agree that it always was a very poorly
14 conceived project going forward? I mean, the -- the
15 actual concept was not even logical. I mean, you
16 wanted to reverse a flow of a -- of a river coming into
17 another lake, which flows into a large lake now that is
18 actually losing water. Logically it never made sense,
19 and the Kluane First Nations told you that from the
20 get-go, yet it was pushed forward, just like Atlin was.
21 And we paid and are paying for Atlin, and now you again
22 want us to pay for Gladstone.

23 A. MR. HALL: So, Mr. Rondeau, maybe a few
24 points. I'd refer you to the Board Order from this
25 Utilities Board 2013-01, where the Board noted:

1 (as read)

2 "The Board finds that this project has
3 potential to be viable and directs that
4 all project expenses be held in WIP."

5 So this Board present today had concluded that it was a
6 good project and viable.

7 Q. Only economics. That's that all that was looked at.

8 A. MR. HALL: My understanding, this was
9 primarily an economic regulator.

10 Q. Yeah, but that's not how a project gets stopped --

11 A. MR. HALL: Of course, and that's what we as
12 the company had to work through. But, I mean, as of
13 the 2013 GRA, it was quite clear with the instruction
14 we received from this Board that we're before today.

15 Q. Would you not say that any -- that any major project
16 going forward, the major determinants for such a
17 project like this should be given a secure green light
18 from the First Nations right off the get-go?

19 A. MR. HALL: First Nations' support is -- is
20 necessary, obviously, before we take a project before
21 YECSIM, okay. But how you get there is not a straight
22 path. I mean, you don't yet a yes from a First Nation
23 from the get-go. It's often a very long process. In
24 many cases -- and I'll talk about the LNG project. I
25 mean, if we use that as a great example, the Kwanlin

1 Dun First Nation initially was not in support of the
2 project, and we spent a lot of time working through with
3 them, educating them about LNG, its properties, its
4 safety, and eventually we got to a point where they
5 were very supportive of the project. So it's not, in
6 my experience so far, and I think if you look at Yukon
7 Energy's history, it's not typically possible to get a
8 First Nation on board right off the bat; there's a lot
9 of work required. And that can go through several
10 gyrations of up and down, depending on changes in chief
11 and council, for example, and obviously we all hope
12 that we get to the point where the First Nation is
13 supportive.

14 A. MR. MOLLARD: And I think it's worth noting too,
15 particularly with projects of this nature, if you
16 asked -- if you asked the First Nation for permission
17 to change the watershed, the first question they're
18 going to ask is, Well, what's going to change? So you
19 are immediately drawn into all the science of looking
20 at, okay, if I put a foot of extra water in this lake,
21 what's it's going to do to the fish, what's it going to
22 do to the moose, what's it going to do to the muskrat?
23 So you're kind of in a box because without having that
24 information and doing that work, there's really no
25 basis for engagement. And in our process now, we

1 consult with a First Nation and we make them part of
2 that science, because they know their own land and they
3 participate actively in those projects, but some -- as
4 Mr. Hall mentions, some work has to be done before
5 you're even going to get the chance to talk to the
6 First Nation about it.

7 Q. Just to say, the LNG project is much different than the
8 Gladstone, but I agree with what you said there. The
9 Gladstone project, I would have to say there's no way
10 under God's green earth that you ever were ever, ever
11 going to change the direction of a system into another
12 system and stop that particular drainage into a major
13 lake that is in a park. Would you agree with that?

14 A. MR. HALL: I believe you've stated your
15 opinion. I -- I can't comment on your opinion.

16 Q. Okay. I don't know if I want to get into this
17 particular area, because it's very controversial,
18 before I go into the Marsh Lake and Mayo Lake. I think
19 I'll leave this till after. May be controversial.

20 Now, we've gone through Gladstone, which I have
21 given my two bits. And we're having the same go
22 forward with Mayo Lake; spending money, spending money,
23 and with the southern lakes enhancement. I can give
24 you a breakdown that I found for Mayo Lake,
25 2,121 million (verbatim) to the end of 2015;

1 .285 million in '16, and .1 million in '17, and
2 .825 million in '18, for a grand total of
3 \$3.356 million.

4 UCG, I'm just thinking that -- UCG 135 gives you
5 the 8.156 million total cost. UCG 135, and I have it
6 broken down into the years.

7 **A. MR. OSLER:** That's 135 is Marsh Lake. Is that
8 what you want?

9 Q. Sorry, that's not the right one.

10 **A. MR. OSLER:** I think 36 will be Mayo.

11 Q. I'm dealing with Mayo Lake first; I got that backwards.

12 **A. MR. OSLER:** That'll be UCG-YEC-1-36.

13 Q. Okay. I'm hoping I haven't got the figures mixed up.

14 **A. MR. HALL:** Exhibit B-4.

15 Q. Is the 8.156 million correct, total for southern lakes?

16 **A. MR. HALL:** The southern lakes, it's 8.156,
17 which is exhibit -- which is YEB-YEC-1-35.

18 Q. Okay. We'd better deal with them as I have them in
19 order here. I guess I have -- I have southern lakes
20 first.

21 **A. MR. OSLER:** Well, they come first in the
22 application, so you probably would.

23 Q. Okay. So my breakdown was for Mayo Lake, I should have
24 broke down the Southern Lakes, which I would like to
25 give in yearly increments too. 6.517 to the end of

1 2015, .36 million in '16, .25 million in '17, 1.025
2 million in '18, for a grand total of 8.156 million,
3 okay? Again, like the Gladstone project, this is been
4 in a WIP; correct? For decades.

5 **A. MR. MOLLARD: I believe we started at 2006.**

6 **Q.** The Atlin Lake was another one that was in there for
7 decades that cost millions of dollars. Let's look at
8 this project specifically anyway. Southern Lake
9 enhancement. You gave me the date when it started.
10 Can you repeat that, please?

11 **A. MR. MOLLARD: Subject to that check, I believe**
12 **it started -- it came out of the 2006 resource plan, so**
13 **it would have been 2006-07, approximately.**

14 **Q.** Mr. Mollard, as the only Yukoner on this panel who's
15 been here for any length of time, I will put this to
16 you: Can you tell us a little bit about the properties
17 along the lake, the Southern Lakes area? Specifically,
18 are they in a floodplain, most of them?

19 **A. MR. MOLLARD: I'm not qualified to say whether**
20 **they're -- if they're all in floodplains.**

21 **Q.** I didn't say all; I said most.

22 **A. MR. MOLLARD: I'm not qualified to answer that.**

23 **Q.** Well, why would they be making a fuss if they aren't on
24 a floodplain?

25 **A. MR. MOLLARD: You would have to ask them that,**

1 **Mr. Rondeau.**

2 Q. Well, you probably know; if you don't, you should know.
3 People like the Hougans, the first, the Tutons, the
4 Wedges, the Phillips -- and I can go on and on -- live
5 on this floodplain. These people have great power in
6 the Yukon. They're very influential and powerful. Do
7 you ever think they're going to let you mess with their
8 little piece of ground?

9 MR. LANDRY: Well, Mr. Chair, I'm sorry. I
10 think we probably understand what Mr. Rondeau's view of
11 life is, but it's not a proper question. It's got a
12 lot of premises in it that I think -- I think we have
13 to step in just to object to that question. If he
14 wants to put a question about certain property on the
15 lake and what YEC has done or not done with them,
16 that's one thing, but that was an improper question.

17 MR. RONDEAU: I'm trying to show that this
18 project should be stopped now --

19 THE CHAIR: Well, ask a question. It doesn't
20 need the characterizations.

21 Q. MR. RONDEAU: Okay. Do you not think that
22 history and -- and what has taken place should -- that
23 Yukon Energy should put a stop to this project
24 immediately?

25 A. MR. HALL: Mr. Chair, if I may. Again, let's

1 think about the context here.

2 So I -- once again, Mr. Rondeau, point you to
3 Board Order 2013-01 from this Board, which notes:
4 (as read)

5 "The Board finds the Marsh Lake storage
6 is currently a viable project, and as
7 such, all Marsh Lake-related costs shall
8 be held in WIP. Furthermore, YEC is to
9 cease work on this project if and when
10 YEC concludes that there's no net
11 economic benefit of the project to
12 ratepayers."

13 Q. Yes.

14 A. MR. HALL: So if I was to context this
15 project when I arrived in 2014, that was the
16 instruction that we currently had from our regulator --

17 Q. Yes.

18 A. MR. HALL: -- is to carry -- is to carry on
19 work on the project. And so if you look at the costs
20 that we've incurred since that time, that's what we've
21 done.

22 Now, I think you've pointed to some of the risks
23 involved in this project, and I'd be the first one to
24 admit that this is a complex and risky project. You
25 know, as -- as with all projects, we have, you know,

1 the First Nation to -- to get on side, and then in this
2 case, we have three First Nations to deal with; the
3 Carcross/Tagish First Nation, Kwanlin Dun, and Ta'an.

4 So -- and then layered on top of that is the
5 challenge that this is a fairly populated area with
6 many permanent and temporary residences around the
7 lake, and we had to spend quite a lot of time and
8 resources to engage with those folks and understand
9 what their concerns were and to do the necessary
10 engineering to design mitigation.

11 So we worked with -- firstly, we did the science
12 to identify which residences are likely to be impacted
13 by the project, and then we worked directly with them.
14 So we call those shoreline units. And we worked
15 directly with them to identify what mitigation measures
16 they found acceptable. We put up a range of different
17 options in front of them and let the folks select what
18 they preferred.

19 Now, I would point out that a number of those
20 projects are seeing erosion of their shoreline in any
21 event. So, you know, this is a problem that they're
22 dealing with today. And so in some cases, those --
23 those property owners were very welcoming that, with
24 this project, there may come an opportunity for a
25 systematic solution to the issue of shoreline erosion.

1 So that is an example of some of the costs that
2 have been incurred since the last GRA in the context of
3 this Board providing instruction that we continue.

4 Q. Again, it's economics. That's not the only thing that
5 should be looked at --

6 A. MR. HALL: Of course, and we do look at other
7 issues. I mean, I spoke about our First Nation
8 consultation, consultation with the shoreline owners.
9 And the other piece would be the environmental studies
10 that we did to determine whether there are impacts on
11 fish and wildlife around -- around the lake. And so
12 there were expenditures incurred to continue with those
13 studies through the intervening periods since the last
14 GRA.

15 Q. Okay. I won't -- I'll try to stay away from a little
16 bit of the controversy with Mayo Lake that we just went
17 through, because it's basically the same thing. It's a
18 project that has -- has been in the books for a long
19 time, and -- and, again, you have a First Nation, and
20 Nacho Nyak Dun that live along this lake, fish, and
21 hunt, basically.

22 And I'd just like to ask you, Mr. Mollard: Are
23 you aware that Mayo Lake is considered sacred in their
24 First Nation tradition?

25 A. MR. MOLLARD: Sorry, Mr. Rondeau, I was -- I

1 wasn't part of the negotiations with the First Nations,
2 so I can't -- I can't comment on that particular area
3 within their -- their culture.

4 A. MR. HALL: Mr. Chair, maybe just to -- to
5 update everyone. From the beginning, representatives
6 from Nacho Nyak Dun were included in our -- a joint
7 working group that worked through the science that we
8 needed to do on the Mayo Lake project. And they've
9 expressed their support of the project, and it was on
10 that basis that we prepared the YESAB submission that
11 was submitted and then later withdrawn for a very
12 specific reason. But we don't at this point have a
13 specific concern around First Nation support for the
14 Mayo project.

15 A. MR. OSLER: And just to again -- the context
16 of the Mayo and the Marsh, even though they're side by
17 side in the document, are quite different. As Mr. Hall
18 just said, there was a submission that was supported by
19 the First Nation, made to the YESAB. But there was an
20 extra issue that had nothing to do with the Mayo Lake
21 project that arose, the blockage through siltation in
22 the channel. And you can't use that lake, the bottom
23 part of it, until that silt is removed, and that
24 becomes a separate project.

25 And the ruling from the YESAB was that the

1 document had to be either all melded together with
2 these other concerns or withdrawn, and it was withdrawn
3 while they work on trying to figure out the options and
4 the costs and the benefits of dealing with that silt in
5 the channel. So they're very, very, very different
6 context between these two projects in terms of why
7 they're both still sitting not yet done.

8 Q. In the Mayo Lake that you just give me, you said that
9 the First Nations gave the go-ahead. Was this a
10 resolution, or was this a chief or a couple of parties
11 that you dealt with? You know, they are not
12 necessarily the -- the First Nation. There is -- there
13 is a way that they organize and make decisions.

14 A. MR. OSLER: I'll just say this that there was
15 a formal project agreement for the Mayo B project
16 between Yukon Energy Corporation and the First Nation
17 Nacho Nyak Dun, and it incorporated dealing with the
18 Mayo Lake project, it had committee representatives and
19 process set up. So...

20 Q. Did you meet with the First Nations and get an a
21 consensus?

22 A. MR. OSLER: Well, I don't want to get into how
23 the First Nations do things internally because I'm well
24 aware of, across Canada, lots of issues with that, and
25 I don't think that's for me to get into here, but --

1 Q. Okay.

2 A. MR. OSLER: -- the document had that type of
3 support. It was a finalized submission to do with the
4 Mayo Lake, next step on the YESAB.

5 The problem was external to the project. It was
6 another problem that surfaced that the regulator said,
7 please deal with it concurrently, and the company
8 wasn't ready to deal with it yet because it didn't have
9 enough information. So whereas the Marsh has all the
10 issues that you described and discussed and they're
11 quite -- and Mr. Hall said there's a lot of real risks
12 to deal with those issues.

13 Q. There is in Mayo, too. Anyway, let's move on because
14 we can go around on this. I'm going to ask you;
15 probably when, if not, these projects fail or stop, how
16 are you going to treat these sunk costs, millions and
17 millions of dollars?

18 A. MR. MOLLARD: Well, we -- we are under direction
19 from this Board to pursue these projects as long as
20 they're viable. At such point if they do become not
21 viable, I would put them into an application to write
22 them off in accordance with our policy, and it'll go to
23 this tribunal to assess those costs for prudence.

24 Q. The ratepayers, in other words, you're going to ask to
25 pay for it; right?

1 **A. MR. MOLLARD:** I'm sorry, what was the question?

2 **Q.** You're going to request that the ratepayers pay for
3 this.

4 **A. MR. MOLLARD:** In the event that those
5 circumstances play out as I described them, yes.

6 **Q.** Mayo B capital project. I think Mr. Maissan or --
7 or -- I think he asked what the total amount of -- of
8 power could be taken out of Mayo A and Mayo B, and you
9 gave it at -- you gave a number, I think, 8 point
10 something megawatts. But can you -- can you tell me
11 the capacity of Mayo A and Mayo B?

12 **A. MR. MOLLARD:** Dependable or name plate?

13 **Q.** Dependable, what you can get out of it now.

14 **A. MR. MOLLARD:** I believe it was 11 megawatts.

15 **Q.** Okay. That's -- I think that's what you told...

16 **A. MR. MOLLARD:** 11.5. John Maissan-YEC-1-9.

17 **A. MR. OSLER:** Let's, for the record, get it.

18 There's 15 megawatts of installed capacity name plate,
19 there's 11 or 11.5 that you just gave. And in terms of
20 when we talk about dependable for winter, it is -- it
21 is 9 megawatts for -- at the winter peak period when
22 we're doing the dependable capacity tests, just so it's
23 all in one place.

24 **Q.** Nine in winter.

25 **A. MR. OSLER:** Yeah. That means dependable and

1 using the ground -- the definitions that the company
2 uses for qualifying for dependable capacity.

3 Q. Okay. And the maximum we were sold on this was 15. Am
4 I correct?

5 A. MR. OSLER: The issue for the project was the
6 energy to get out of it, and the company can comment on
7 it. What we're actually getting compared to what we
8 talked about, I think it's very close, in terms of what
9 we can get, subject to the water being available.

10 A. MR. HALL: Right. I mean, our production out
11 of Mayo B relative to what was presented in its Part
12 Three is actually higher than what was presented, in
13 terms of energy per year.

14 Q. Okay. And what were you getting out of Mayo A?

15 A. MR. HALL: I don't have that information --

16 Q. Dependable.

17 A. MR. HALL: -- in front of me, but I know that
18 Mayo B, the production exceeded what was presented to
19 this Board in the Part Three.

20 A. MR. OSLER: And there was nothing -- if that's
21 the case, then it should be fine because the Mayo A
22 wasn't supposed to be maintaining a high level of
23 production. It had some production, but we -- it's
24 performing in terms of energy at the level people were
25 talking about is the key point, or better.

1 Q. But the key point was that we were sold a product at 15
2 megawatts. And let me give you some backup on that.
3 In 2015, the KGS Group, who worked on Mayo A
4 enhancement project intake and tunneling and rock
5 stabilization, got an award. And they -- they state
6 specifically that they would enlarge -- that it
7 enlarged the Mayo hydraulic -- hydroelectric facility
8 from 5 megawatts to 15 megawatts within a two year
9 fast-track schedule. Mr. Hall, is Mayo B capable of 15
10 megawatts? Or is the Mayo -- I guess the Mayo
11 facility?

12 A. MR. HALL: Its nameplate and sole capacity is
13 15 in total for the whole plant.

14 Q. So basically you get -- you get your 15, possibly, if
15 you raise -- if you get to raise the lake level a half
16 a foot or --

17 A. MR. HALL: Mr. Chair, I think there's a bit
18 of confusion here. The -- the Mayo storage project,
19 which is in our application as being in WIP, gives you
20 energy, it gives you more water quantity over a year.
21 It doesn't increase instantaneous output, and
22 Mr. Rondeau's talking about instantaneous output when
23 he talks about megawatts, and so it doesn't change the
24 capacity of the plant.

25 A. MR. OSLER: And Mr. Rondeau, just to help, I

1 mean, in the actual proceeding on Mayo B, the point
2 about there being 15 megawatts installed, which the
3 engineers would reference, and 11 megawatts of what we
4 called in that time dependable capacity was well known
5 because the 10 megawatts that's being installed in Mayo
6 B was going to take up water that would have been used
7 in the original 5 megawatts. We didn't have enough
8 water and enough license to capability to ever run 15
9 megawatts at the same time. The new megawatts were
10 going to achieve a purpose, and they're achieving that
11 purpose. Since the last GRA, the only thing that's
12 changed is that the dependable capacity in the middle
13 of winter test has been upgraded, and the dependable
14 capacity that we can therefore rely upon for winter
15 capacity testing is 9 megawatts today rather than the
16 11 megawatts we talked about in 2012/13 GRA. That's
17 the one change.

18 Q. Sounds less.

19 A. MR. OSLER: It's a bit less, and Mr. Sreckovic
20 can tell you all about it, but it's nothing to do with
21 Mayo B changing; it's to do with the criteria he thinks
22 we should use and for all the reasons he can give you
23 for the dependable capacity in the middle of winter.

24 Q. Mr. Sreckovic, would you like to comment on that?

25 A. MR. SRECKOVIC: Yes. Mr. Chair, we reassess the

1 dependable capacity of the entire Mayo system based on
2 the new criterion used for the 2016 resource planning
3 and, due to the ice flow restriction downstream of the
4 facility, we calculated that the new dependable
5 capacity would be 9 megawatts -- new dependable winter
6 capacity would be 9 megawatts.

7 A. MR. MOLLARD: And I think it's worth noting as
8 well, Mr. Chair, that we did, when we put Mayo-Dawson
9 into service -- Mayo. Sorry; bad memory. Yeah, sorry,
10 Mayo B into service, we did have a bit of a creative
11 financing note set up with our parent YDC whereby the
12 interest rate was tied to the output of the plant, so
13 where the plant doesn't produce what we expect it to,
14 there's a forgiveness of interest between us and the
15 parent, so it keeps the cost down to a reasonable
16 lower.

17 A. MR. OSLER: And that's the Mayo B flexible
18 note, but the measurement is based on the system load
19 because the effect of energy you can get from that
20 plant depends on how high the grid load is, so it
21 effectively reduces the interest, depending on where
22 the grid load is. So that's a mitigation measure for
23 economics and ratepayers. But the plant is still
24 capable of doing the energy that the engineers
25 developed it for, and there's been internal change in

1 the company as to the ground rules for capacity that's
2 dependable during the middle of winter.

3 Q. Okay. Now, this 11.5 that you give us, the maximum,
4 there's no other way that this can be increased? I
5 mean, why else would you want to raise the lake levels?

6 A. MR. HALL: Well, again, it's -- Mr. Chair,
7 this is -- this is a common confusion. If you look at
8 the amount of electricity we sell over a year, and
9 that's what you see on your bill is kilowatt hours, so
10 we sell a quantum of energy over a year. That -- and
11 that grows as the system load grows; you get more
12 customers, you have to sell a bigger quantum every
13 year. The Mayo storage project gives us more of that
14 energy to meet that annual load. That is completely
15 apart and separate from your instantaneous output,
16 which is measured in megawatts, and they're separate
17 issues. So coming back to the Mayo storage project,
18 it's all about energy, doesn't include increase the
19 output, it just gives us more electrons produced, let's
20 say.

21 Q. It doesn't give you any more megawatts, it --

22 A. MR. HALL: No, it never was, it never was
23 intended to.

24 Q. Uses more electrons, you can service more people.

25 A. MR. HALL: More energy, yes.

1 Q. Okay. Do you now have a final cost, Mr. Mollard, on a
2 Mayo B project?

3 A. MR. MOLLARD: I believe we published the final
4 cost for Mayo B in the last proceeding and had it
5 approved in a rate base. I don't...

6 Q. It's already on rate base?

7 A. MR. MOLLARD: Mayo B is in rates.

8 Q. It's in rates already. I'm behind the eight-ball here.
9 Okay. I would still like to know the costs that are --
10 and also the contributions that were put forward by the
11 federal government and whether this contribution went
12 into debt or equity.

13 A. MR. MOLLARD: Contributions don't affect debt or
14 equity directly; they're an offset to rate base, and
15 the debt equity is just the component that's unfunded.
16 I'll spell that out in the sheet.

17 Q. Okay. Because there is some controversy about this as
18 well, that came through the politicians, about what
19 goes on debt and when the government gives money. I
20 think I have something on this somewhere, but I'll have
21 to find it. Oh, it's right here.

22 As I was saying, there was much hoopla in the
23 media about the government basically changing loans to
24 grants or something to that nature, leaving the YDC
25 with a shortfall of some \$39 million. Now, from what I

1 understand of this -- and maybe you can give me some
2 insight, Mr. Mollard -- is this because of the debt and
3 equity, some of this loan was -- or grant went to debt
4 and some went to equity?

5 MR. LANDRY: Again, Mr. Chair, for fear of that
6 whole question somehow assuming that we accept the
7 premise, I would object to the question as phrased. If
8 Mr. Rondeau would like to ask a specific question,
9 which was pretty close near the end of his -- of his
10 question, that would be appropriate, but not with the
11 premise with which he started the question.

12 Q. Okay. The \$39.2 million that was given by the
13 government, is this all -- is this partly debt and
14 partly equity? And can I have some type of -- of
15 undertaking to show this?

16 A. MR. MOLLARD: Yeah, Mr. Chair, I don't have
17 those numbers at my fingertip. Again, I want to
18 reiterate, that's -- and I can undertake to get that,
19 but those were numbers that were already approved in a
20 rate base in the 2012/13 GRA, so I'm not sure of the
21 relevance to this proceeding. But if that's the
22 question, I can go get that breakdown from the last
23 proceeding.

24 Q. I would like that because it is controversial, and
25 it's -- I'm not secure with what happened here, not

1 knowing what take place, and I'm certain the Board --

2 **A. MR. MOLLARD:** Just can I ask -- sorry,
3 **Mr. Chair -- just a point of clarification. We just**
4 **want to make sure. Is that to do with Mayo B, or is**
5 **that to do with LNG?**

6 **Q.** Well, it's -- I'm not sure. It was \$39.2 million that
7 was given by the government, and I don't know where it
8 went. You know where it went. I don't know where --

9 **A. MR. MOLLARD:** I didn't know which. I have to
10 **know which project you're talking about.**

11 **Q.** Well, any government grants. Break it down for me and
12 **tell me --**

13 **MR. LANDRY:** If we can, Mr. Chair, just to keep
14 **some -- a bit of order here.**

15 And I know it's getting late in the day, Mr.
16 Rondeau. Once again, there's a premise in the
17 question, and that's the 39.2 or whatever the number
18 is. And I'm not sure there's even a buy-in on that
19 number. So if the question is something to the
20 effect -- subject to your ruling and whether or not
21 it's relevance, relevant -- what was the government
22 contribution that was put into the Mayo B or, for that
23 matter, LNG that's a different question and a more
24 appropriate question, in my view. I don't see the
25 relevance of the Mayo B because it was put into rate

1 base, but that's subject to your ruling.

2 If we're talking about the LNG project, then let's
3 make it very specific because when we start talking
4 about government contributions, in the nature of a
5 question with a lot of premises in it, I don't think
6 it's helpful to anybody to go that route.

7 So if Mr. Rondeau would like to ask a specific
8 question on a specific contribution, then I think that
9 would be the appropriate way to go.

10 THE CHAIR: So having heard that, Mr. Rondeau,
11 do you have any comments? The Mayo B thing is done.
12 Are you asking them about the LNG?

13 MR. RONDEAU: Well, I -- yes, but I'm still
14 concerned about how this funding from the government is
15 handled, and I think we should -- we should have an
16 understanding of how it -- it takes place. Whether
17 these are placed on -- on -- on debt or equity is very
18 important in the final outcome to the ratepayers.

19 THE CHAIR: The Mayo B item's been already
20 adjudicated.

21 MR. RONDEAU: I understand that, but it'll help
22 me --

23 THE CHAIR: So it's a matter of public record.

24 MR. RONDEAU: Not whether it was debt or equity
25 that I ever recall. But nevertheless, let's go forward

1 and deal with LNG.

2 THE CHAIR: So ask the question about the LNG
3 in the way that you'd like and what you would like to
4 know. Let's see if that's going to be satisfactory.

5 MR. RONDEAU: Fair.

6 Q. MR. RONDEAU: I want a breakdown of the LNG
7 portion of the -- that the government paid into it of
8 debt and equity of what was -- went into debt and what
9 was into equity.

10 A. MR. MOLLARD: Okay. So just to be clear,
11 because we did receive a government contribution to
12 offset capital costs for LNG. So I have that number.
13 It's 18 -- it's in there, \$18.3 million in the
14 application. That's an offset to rate base. I'm not
15 clear what you want for net and equity because that
16 contribution doesn't -- isn't part of debt or equity.

17 Q. It just simply went completely off of the rate base.

18 A. MR. MOLLARD: It's offset to rate base directly.

19 Q. And is that -- can I now ask, is that how it's handled
20 in all the government funding?

21 A. MR. MOLLARD: All contributions received,
22 whether from third parties or from government, are
23 treated that way -- for capital assets.

24 Q. Then there is no problem with debt or equity in it.

25 A. MR. OSLER: You're correct. If you take -- if

1 you use the grant to reduce the rate base, then the
2 debt and equity applies to what's left. It's going
3 nothing to do with what the grant debt is, and that is
4 standard from all my understandings of all the projects
5 we've been talking about.

6 Q. Cleared.

7 THE CHAIR: Okay. So in my notes now I have
8 there's no undertaking about the Mayo B issue, and
9 there's no undertaking here. There's an understanding
10 about how these contributions are handled.

11 MR. RONDEAU: Exactly.

12 THE CHAIR: Okay. So it's 10 to 4. The Board
13 will take a break, but the Board intends to sit late
14 this evening, given the fact that we still have quite a
15 bit to accomplish tomorrow.

16 Mr. Rondeau, do you have kind of an estimate on
17 how much longer you might be?

18 MR. RONDEAU: Timeline? I think it'll go much
19 quicker. I have a few things on Rider F, I've got DSM,
20 I have regulatory costs, and I have the IRP, the
21 resource plan.

22 THE CHAIR: So it will be the Board's
23 intention to sit until you've completed your material,
24 because tomorrow we have another panel to seat, and we
25 still have cross-examination, we have people with

1 airplanes and things, and we need to be wrapped up
2 tomorrow.

3 MR. RONDEAU: I'll try and make it as quickly as
4 possible, Mr. Chair.

5 THE CHAIR: All right. So it's ten to four,
6 so let's be back at five past four, thank you.

7 (ADJOURNMENT)

8 THE CHAIR: Thank you, be seated, please. We
9 can pick up where we left off, unless there's some
10 things that are ready to go yet. No; so Mr. Rondeau.

11 Q. MR. RONDEAU: Okay. I just have a couple more
12 things on Mayo B, and it is actually Mayo B and the
13 Aishihik facilities.

14 What are the past practices for storage and usage
15 of these two facilities?

16 A. MR. MOLLARD: Are you referencing the water
17 supply?

18 Q. Winter; basically winter, basically summer.

19 A. MR. MOLLARD: So if -- I'll invite my colleagues
20 to jump in if I miss anything. Mayo Lake is -- it's
21 not pure run of the river, but there's very little
22 storage there, there's not much we can hold back one
23 year to the next, so on the cycle we get our freshet in
24 the spring in May, we have a full supply level that
25 we're bound by under our water license, and we

1 generally use that water in the year that we collect
2 it.

3 Aishihik is a little bit more complicated. It's
4 our only facility with multi-year storage, so we manage
5 that one somewhat differently in terms of that resource
6 because we want to make sure we have that water when we
7 need it.

8 Q. So from things that I've read before, it's stated that
9 Mayo B and Aishihik facilities in the past, their main
10 focus was on providing storage for winter use.

11 A. MR. HALL: Correct. Mr. Chair, obviously we
12 have a load profile through the year that has much
13 higher requirements in winter, when it's cold, than in
14 summer. So if you looked at which hydro units, you
15 know, you're running as much as you can of hydro in the
16 winter. And in the summer, we typically -- our load is
17 such that we're running mostly Whitehorse --

18 Q. Number 4.

19 A. MR. HALL: Yeah.

20 Q. Okay. I have a question about, I guess, when Victoria
21 Gold and Alexco come online. I'm reading it. They
22 will operate both seasons; correct? That's what they
23 are proposing?

24 A. MR. HALL: The Victoria Gold mine plan, as
25 far as we understand it, involves a 90-day period of

1 curtailed operations, roughly December onwards for
2 three months, 90 days, so their load is higher in
3 summer than in winter.

4 Q. Okay. And Alexco, we're not sure of what's happening
5 there, okay. Better?

6 A. MR. MOLLARD: Yeah, Mr. Chair, with respect to
7 Alexco, we haven't received notice that they're coming
8 back on the system yet, but they're telling us that it
9 will be probably 2019, so they haven't updated their
10 load profiles, but generally they're a year-round
11 operation.

12 Q. Yeah, my question doesn't make too much sense to me
13 here, so I'll pass on that. I'll leave it at that for
14 that.

15 Now, just out of interest, I'm not sure where this
16 comes from, but it is called the negotiated request for
17 proposed 2018-016 related to the northern diesel plant
18 location study?

19 A. MR. MOLLARD: Sorry, one more time if you could,
20 please, Mr. Rondeau? Negotiated?

21 Q. Negotiated requests for proposal, 2018-016, and it's
22 related to the diesel plant location -- it says
23 northern diesel plant study that YEC has issued out
24 earlier.

25 A. MR. HALL: Yeah, I believe you're referring

1 to a study that we have underway to look at thermal
2 supply in the north. I'm not certain if that's on the
3 record or not, but I'm familiar with the study.

4 Q. According to the website, it says the purpose is
5 negotiated RFP to solicit proposals to assist YEC in
6 optimizing current thermal asset locations, determining
7 any potential new capacity and identifying locations
8 best suited for installation of new thermal assets.
9 And this is for the north, I gather, you said?

10 A. MR. HALL: Yes, that's correct. So it's
11 looking at the location of our thermal plants across
12 our various community locations, and looking at future
13 planning of that.

14 Q. Are you aware that there are some people who are
15 planning to do an IPP on the old facility in Dawson?

16 A. MR. HALL: I'm aware of that, yes.

17 Q. Pardon me?

18 A. MR. HALL: Yes, I'm aware of that.

19 Q. So these would kind of contradict each other, would
20 they not?

21 A. MR. HALL: No, not necessarily. I mean, the
22 purpose of -- of thermal plants in our fleet,
23 Mr. Chair, is to provide capacity. So a dependable
24 capacity during the winter, we know that they can be
25 dispatched when we need them. An IPP may or may not be

1 dependable, depending on what type of technology it is.
2 If it's a wind project, for example, an IPP, we know
3 that they can supply energy through a year, but again,
4 we can't depend on them being there on a particular
5 day --

6 Q. But this is hydro that they're proposing.

7 A. MR. HALL: Okay. Fair enough. But, again, I
8 don't -- yeah. Couple of things. I mean, the IPP
9 project hasn't been -- sending-off program hasn't been
10 launched, they haven't submitted an application. We're
11 aware that they're looking at it, but can we say with
12 certainty that they'll be there? No.

13 A. MR. MOLLARD: If it's run of the river, it
14 doesn't count as dependable capacity, so it doesn't
15 help us with that -- that problem.

16 Q. Nevertheless, are any of these requests for proposals
17 and what you've done on this particular project to be
18 charged in the 2018 rates?

19 A. MR. MOLLARD: That project is scheduled to be
20 completed for a cost of \$100,000, and we are asking to
21 be paid in rates for that.

22 Q. You are not asking?

23 A. MR. MOLLARD: We are.

24 Q. Now?

25 A. MR. MOLLARD: Yes.

1 Q. In 2018.

2 A. MR. MOLLARD: Yes.

3 Q. 100,000.

4 A. MR. MOLLARD: Just for reference, Mr. Chair, it
5 is that -- the description of that plant and the
6 dollars spending in 2018 is disclosed in page 5.4-3 in
7 the Appendix 5.4.

8 Q. Okay. We went through now the -- all of these projects
9 that are on deferred costs and WIPs coming to the
10 millions of dollars that even Mr. Landry can't refuse.
11 I'm not going to give any particular number.

12 Does YEC manager act on behalf of the corporation
13 as an exclusive contract placemaker with any consultant
14 or consultant group on all of these particular? One on
15 one, has there been -- if there isn't now, has there
16 been in the past, Mr. Mollard?

17 A. MR. MOLLARD: I'm going to have to ask you to
18 repeat that question, Mr. Rondeau. I don't know what
19 you're referring to.

20 Q. What I'm -- what I'm asking is, has any contract been
21 given out by any just one particular manager of Yukon
22 Energy Corporation?

23 A. MR. MOLLARD: A manager can't place a contract
24 over \$5,000 on his own signature.

25 Q. Over 5,000.

1 **A. MR. MOLLARD: Yes.**

2 **Q. And this has been in place since?**

3 **A. MR. MOLLARD: As long as I've been there, over**
4 **17 years.**

5 **Q. Okay. Rider F. Please refer to the -- again, I don't**
6 **know if this is going to be on -- it's ATCO and**
7 **Yukon Energy's last Rider F, April 19th, 2018. And I**
8 **guess what I would like is an update, a true-up balance**
9 **sheet on this, if it's possible.**

10 **A. MR. MOLLARD: Sorry, Mr. Chair. I don't believe**
11 **that report's on the record.**

12 **Q. Okay. Maybe I can ask, you're going to give a true-up**
13 **to us soon anyway. Now, in this, in the -- in these**
14 **Rider F quarterly reports, there's a \$200,000**
15 **threshold. Is that correct?**

16 **A. MR. MOLLARD: I believe the policy mentions that**
17 **limit, yes.**

18 **Q. And how was this decided upon?**

19 **A. MR. MOLLARD: There was a separate proceeding in**
20 **front of this Board to develop and review a Rider F**
21 **policy some time ago, so the Board reviewed and**
22 **approved that policy that has that limit in it.**

23 **Q. That has that particular threshold.**

24 **A. MR. MOLLARD: That's correct.**

25 **Q. Do all YEC ratepayers, as well, pay into -- pay this**

1 rider, meaning retail, wholesale, industrial?

2 A. MR. MOLLARD: It does not apply to wholesale
3 customers, just retail.

4 Q. Rider F, it's the fuel rider.

5 A. MR. MOLLARD: Yes. Does not apply to wholesale
6 customers.

7 Q. Why are we getting a refund, then?

8 A. MR. MOLLARD: I'm sorry?

9 Q. Why are we getting a refund right now because this
10 200,000 threshold has been reached?

11 A. MR. MOLLARD: Correct.

12 Q. So it has to apply to wholesale customers.

13 A. MR. MOLLARD: No, no, it doesn't. The way it's
14 structured -- it's one fund for all customers, all
15 retail customers, and both utilities put money into it
16 or take money out of it depending on what's happening
17 in their system.

18 It -- I don't bill YECL -- or, sorry --
19 ATCO Electric for Rider F directly. There's a
20 mechanism for exchange of Rider F collections or
21 rebates, depending on the circumstances, but there's no
22 effect on the wholesale billing from Rider F.

23 Q. That doesn't make sense. I can't see if the
24 residential wholesale customer are not paying into
25 this, why are -- we are now receiving a rebate?

1 **A. MR. MOLLARD:** That's not what I said,
2 Mr. Rondeau. It doesn't apply to wholesale's
3 customers. It applies to all retail services,
4 residential, general service, and industrial.

5 Q. Okay.

6 **A. MR. MOLLARD:** Yes.

7 Q. All customers are paying into this --or receiving
8 residential, depending on which way the account is
9 going, yes. All end-use -- end-use customers, if I can
10 say it that way, perhaps that helps.

11 Q. Okay. Understood.

12 **A. MR. MOLLARD:** Okay.

13 Q. Again, I'm going to do the intergenerational thing.
14 There's a rebate happening right now, so a new customer
15 coming online or when this rebate started comes online,
16 receives the rebate just like every other customer. An
17 industrial customer will receive even more because it's
18 on the amount of load they use. Yet they have -- may
19 not have paid anything into it. Is this not
20 intergenerational activity?

21 **A. MR. MOLLARD:** Again, Mr. Chair, I'll defer to my
22 earlier responses that there's also a balancing here
23 between intergenerational equity as well as regulatory
24 efficiency. It's been well established in history that
25 the utility can't be held to account for things that

1 are completely beyond its control, commodity prices
2 obviously being one of those items. So there needs to
3 be a way for the utility be kept whole for that.

4 So in the absence of a Rider F fund, every time
5 the fuel price changes, I'd have to come back and see
6 you and say, oh, I'm charging too much for fuel, or I'm
7 charging not enough for fuel, I need to adjust my rates
8 and we have to have a process.

9 So, you know, it was recognized that this was an
10 issue, and this has been established in the
11 legislation -- my colleagues can correct me, but to the
12 point where the OIC specifically states that a rider or
13 a fund like this is appropriate for the purposes of
14 managing fuel costs.

15 A. MR. OSLER: And just in this case, the policy
16 in various jurisdictions, including this one, is the
17 reason why they have this small limit, 200,000, is
18 because if they don't distribute the money relatively
19 quickly, they will create the very thing you're talking
20 about, unfairness. You can't do it perfectly, but you
21 can do it reasonably adroitly.

22 The purpose is therefore quite different than
23 trying to build up a fund to hold it around for a
24 drought. So there's a major difference here. An
25 intergenerational equity -- hopefully, money doesn't

1 stay around long enough to get into that type of time
2 period, but it can't be done instantaneously. So
3 people set small limits, Boards do, and companies
4 distribute the money relatively quickly to get back
5 towards zero balance in the account.

6 Q. This balance argument gets old after a while. Demand
7 site management. Mr. Mollard, how does YEC track and
8 measure the impact of each DSM initiative, to sales
9 improvement to?

10 A. MR. SRECKOVIC: Mr. Chair, Yukon Energy tried --
11 tracks benefits of DSM through a benefit cost ratio,
12 and those benefit cost ratios are calculated for our
13 in-charge program, and they're presented in Figure 5.1
14 of the 2017/2018 GRA. That is Figure 5.1, page 5-40.
15 It's a complex table, and in essence if the benefit
16 costs ratios are greater than one, it means that DSM
17 programs are doing well, and all our programs are doing
18 very well; all cost benefit ratios are greater than
19 one. And that is industry accepted standard. That
20 is -- that is a standard that is accepted across the
21 continent, and our first review was completed by help
22 from a -- from a consultant from California, based
23 on -- based on benefit cost ratios used in California.

24 A. MR. MOLLARD: And just to be clear, those
25 benefit cost ratios that we refer to are the ones that

1 were approved by the Board when they approved the
2 program under AEY's proceeding 13-15, I believe.

3 Q. Okay. So the methodology that you used to determine
4 this is based on exactly what? Your methodology to --
5 to show the benefit test analysis for each project?

6 A. MR. SRECKOVIC: Mr. Chair, the evaluation
7 methodology is industry-wide accepted methodology, and
8 the basis for -- for that are from -- from DSM
9 evaluation in California. And California is very, very
10 far away in applying DSM compared to -- to the
11 territory.

12 Q. Any specific name of the program?

13 A. MR. SRECKOVIC: I can -- I can find that. We --
14 we have a report in a GRA application; I can certainly
15 find it for you.

16 Q. Okay. He can just give that to me later; we don't have
17 to do an undertaking.

18 So in this particular process, has the YEC shown
19 the benefits of each of their programs through
20 regulated reporting and accountability?

21 A. MR. SRECKOVIC: Mr. Chair, yes.

22 Q. And does this demonstrate to us how YEC has proven
23 their benefits -- pardon me, has utilized appropriate
24 spending levels for the cost effectiveness of each
25 program?

1 **A. MR. SRECKOVIC:** Mr. Chair, every -- every
2 indicator is greater than one, which demonstrates that
3 it is beneficial both for the -- for the utility and
4 participants.

5 **Q.** Mr. Mollard, I guess -- well, someone, probably you, I
6 would like to know how much YEC has spent on the DSM
7 for the industrial sector.

8 **A. MR. MOLLARD:** We -- I don't believe we spent
9 anything on the -- specifically on the industrial
10 sector since the last GRA.

11 **Q.** There was --

12 **A. MR. HALL:** The three DSM programs that were
13 approved by this Board relate all to the residential
14 sector.

15 **Q.** The Alexco improvements were at the last GRA, the
16 Alexco DSM program?

17 **A. MR. MOLLARD:** Are you referring to the DSM
18 audit?

19 **Q.** Possible that's all it was. I thought there was some
20 programs that were implemented; that's what I'm asking.

21 **A. MR. MOLLARD:** I don't have any recollection of
22 that.

23 **Q.** Does YEC still maintain a DSM office?

24 **A. MR. HALL:** No.

25 **Q.** For how long?

1 A. MR. HALL: No, I said no.

2 Q. But for how long have you not had an office or have you
3 -- you had some people doing straight DSM at one time.

4 A. MR. MOLLARD: Yes, we --

5 Q. Two people.

6 A. MR. MOLLARD: When we created the program, we
7 had two positions designated for DSM, and we had a
8 storefront office downtown on Main Street. Subsequent
9 to the proceeding, the manager left, and that position
10 was not restaffed. We took the lone employee that was
11 left and brought them back to our head office at the
12 dam site, and we gave up the lease on the downtown
13 property. I'm sorry, I don't remember exactly what
14 date that was.

15 Q. But there's no costs on this test year, these test
16 years?

17 A. MR. MOLLARD: Well, just to be clear, at the
18 direction of the Board, all of our incurred costs for
19 DSM since inception are being held in WIP.

20 Q. Okay.

21 A. MR. MOLLARD: And we're being asked to be paid
22 for them now, so those costs that were old are in there
23 and being asked to be paid for them now.

24 Q. Now, according to the YEC 20-year resource plan,
25 additional demand side management programs are slated

1 to begin in 2018, at the cost of \$17.2 million. Can
2 you tell me what your main thrust is going to be to
3 cost 17.2 million?

4 **A. MR. MOLLARD:** You're going to have to point out
5 that reference, Mr. Rondeau; I don't believe that
6 number's correct. \$17.2 million on DSM?

7 **Q.** That's what the resource plan says.

8 **A. MR. HALL:** What's the reference for that?

9 **Q.** The resource plan. All I have -- I use the short form
10 documents of all these things because the rest of it --
11 it may be in there; I'll check.

12 No, it's not in the short version of the resource
13 plan, and I'm not sure where I have it, so I will just
14 leave that as is. Perhaps you can give me an idea of
15 what you plan on doing into the future. I'm sure light
16 bulbs and timers have pretty well reached their
17 maximum.

18 **A. MR. SRECKOVIC:** Mr. Chair, Yukon Energy just
19 started developing future DSM programs, both energy and
20 capacity, and we have allocated the budget for -- for
21 2018 to develop a feasibility study that would indicate
22 what -- what particular programs for both energy and
23 capacity we should undertake in the future, and I
24 believe that the numbers are in the -- in the GRA
25 application.

1 **A. MR. MOLLARD:** And just to be clear, in keeping
2 with past practice, we'll be bringing those programs
3 forward to this Board for approval before we implement
4 it.

5 **Q.** With the costs.

6 **A. MR. MOLLARD:** Yes.

7 **Q.** Okay. Just a few -- maybe give you some ideas on -- do
8 LED -- large LED lighting, do they require ballasts?

9 **A. MR. SRECKOVIC:** Are you -- are you thinking about
10 street lights or --

11 **Q.** That, and major lights in offices.

12 **A. MR. SRECKOVIC:** I don't know.

13 **Q.** Because in researching other areas, that is -- that is
14 a major DSM push right now because there's -- to
15 upgrade ballasts because the technology now
16 increased -- has increased megafold in this. So maybe
17 you could look into this.

18 And, again, another question that I always bring
19 up; have you considered targeted DSM programs? For
20 example if a person or a family is having problems
21 paying their bills, would they not be looked at at --
22 at placing proper techniques to -- to make savings
23 through demand site management in their -- in their
24 home or rental?

25 **A. MR. MOLLARD:** This is -- this is a very

1 difficult one, Mr. Chair, and one that we struggled
2 with. It's -- we don't have the data to identify who
3 might qualify under such a program, so it's very
4 challenging for us to try to have a targeted program
5 for somebody based on an income test when we don't have
6 that information.

7 Q. But you don't solve residential customers, right, that
8 you serve?

9 A. MR. MOLLARD: Yes, we have couple thousand.

10 Q. So what I'm saying is, if at your head office, when
11 these people are not paying their bill --

12 A. MR. MOLLARD: Well, absolutely --

13 Q. -- perhaps we can be targeted to some help.

14 A. MR. MOLLARD: We -- for the purposes of DSM and
15 our client base, remembering that most of our clients
16 are in three communities -- Faro, Mayo and Dawson -- so
17 for the purpose of the DSM, we go to the communities
18 and have events there; educational seminars, we give
19 away lights to get, you know, to get interest up, we
20 have ads in the paper. So it's not targeted to any
21 group, but the door's wide open. We try and -- we try
22 and reach out to as many of our customers in those
23 community as we can.

24 Q. Regulatory costs -- we're going fast here. Now, I'm
25 just going to give a ballpark figure here in the last

1 five years. I imagine Mr. Landis's going to hit me on
2 this. We've spent at least \$3 million on regulatory
3 costs, and that's not only YEC, that's YECL or AEY
4 regulatory, as well.

5 Now this one here, there's approximately
6 3 million -- I can give you a breakdown, if you want on
7 where I come to this figure -- starting right back from
8 the Alexco PPA, I have all the numbers. But I -- if I
9 don't have to go through that, that's fine. If you are
10 happy with the 3 million approximate figure I have, I
11 won't be asking any specific question on the 3 million,
12 I have some general.

13 **A. MR. MOLLARD:** Well, I can't accept that that
14 number's correct without checking it, but --

15 **Q.** I understand that.

16 **A. MR. MOLLARD:** Okay.

17 **Q.** I'm just giving you an estimate that I have, and like I
18 say, I can go through -- I can go through all the
19 proceedings -- I have them all here -- and the numbers
20 that it cost, if you want me to.

21 **MR. LANDRY:** Why don't we get to the questions,
22 Mr. Chair, and then we'll see if somehow that premise
23 gets us into trouble.

24 **THE CHAIR:** Okay. Just ask the question.

25 **MR. RONDEAU:** Fair enough. Fair enough.

1 Q. MR. RONDEAU: And now we have the ERA and the
2 GRA costs that are coming in here at probably
3 1.5 million when it's all said and done. That's my
4 estimate. Perhaps -- I think my question here
5 somewhere is to get an update on the regulatory costs
6 for this proceeding, including the ERA.

7 A. MR. MOLLARD: So you want us -- if I understand
8 the question, you're asking for an update to the cost
9 of the ERA and of this proceeding?

10 Q. Yes.

11 A. MR. MOLLARD: Okay. Mr. Chair, I can do that.
12 I believe there is, with the ERA, we have cost
13 applications in front of the Board to be decided. So
14 if it's okay with the Board, I'll exclude that because
15 I have no basis for estimating what that number might
16 be, but it'll be all incurred costs to date, excluding
17 that award, if that's acceptable.

18 THE CHAIR: Is that acceptable, or do you want
19 to know what was applied for?

20 MR. RONDEAU: No, I already know. That's
21 acceptable to me.

22 THE CHAIR: So you're only asking about this
23 particular proceeding now.

24 MR. RONDEAU: No, I want to know the total, the
25 total cost. I guess I can add the ERA cost to it. It

1 doesn't --

2 MR. LANDRY: So why won't we leave it at this;
3 I'll provide the total cost of this proceeding,
4 Mr. Chair, and then I think Mr. Rondeau can figure out
5 the cost from the ERA from the filings, if that's okay.

6 MR. RONDEAU: Yeah, yeah. I thought they were
7 all together, but I'm obviously wrong in this.

8 **UNDERTAKING NO. - TO PROVIDE AN UPDATE**
9 **OF THE TOTAL COST OF THE ERA AND OF**
10 **THIS PROCEEDING**

11 Q. MR. RONDEAU: Mr. Hall, how many customers are
12 in the Yukon?

13 A. MR. HALL: Overall or...

14 Q. Overall.

15 A. MR. HALL: How many residential customer
16 counts --

17 Q. Not only residential; commercial, industrial. How many
18 customers?

19 A. MR. HALL: Total residential, around 15,860.

20 Q. 1,000 --

21 A. MR. HALL: 15,000 --

22 Q. 15,000.

23 A. MR. HALL: -- 860, of which houses are
24 around seven -- no, sorry. Houses are 1,650.

25 Q. Okay. Now, I guess my question is, do you consider

1 this sustainable? All these costs that are coming in
2 for this regulatory -- these regulatory processes, do
3 you consider sustainable for the small customer base we
4 have here in the Yukon?

5 **A. MR. MOLLARD:** I don't think, Mr. Chair -- this
6 is not a new situation, we've always been structured
7 this way, particularly with our utility being the
8 primary generator with very little distribution. But
9 the system works. We have a -- we have a process
10 for -- for applying for costs and testing for prudence
11 and setting rates. And certainly in the north, we have
12 pretty good rates compared to other utilities, so I
13 would say it does work.

14 **Q.** Now, would you object if the Board were to tell you
15 that you have to work with Yukon Electric, you have to
16 work with AEY for your forecasts. There's no more of
17 this, well, we can't make an agreement. You have to
18 sit down and get a consensus so that we can lower these
19 regulatory costs. Would you agree to something like
20 that?

21 **A. MR. HALL:** Mr. Chair, we dialogue with AEY
22 around forecasts. I'm not sure that addressing that
23 perceived issue from Mr. Rondeau would really change
24 his regulatory costs in a material way. I mean, the
25 regulatory costs are driven by the regulations that

1 we're subject to and the amount of work that's
2 required, and we do the -- what we feel is the
3 appropriate amount of work to present full and complete
4 applications to this Board.

5 Q. But let's just look at the DCF and the ERA, how much
6 this has cost. And it's gone round and round, and we
7 still sit in the same conundrum that we have always
8 been where YEC and YECL will not get together and --
9 and give us a coordinated approach to this.

10 A. MR. MOLLARD: Mr. Chair, I was -- I participated
11 in those discussions with AUI when we were directed by
12 this Board to try and find a path forward for the DCF.
13 You know, it's a difficult spot. We're different
14 companies; an investor owned distribution company
15 versus a crown owned generator of electricity. We face
16 different risks, different pressures. Unfortunately
17 we're going to come to different spots once in a while,
18 and that's why we have this process so that we can come
19 and talk about our evidence and -- and give the
20 tribunal the opportunity to make a decision between the
21 two.

22 I would love to get to consensus every time; it's
23 just not feasible in all circumstances.

24 Q. I'll make my argument on that. Okay. This might be a
25 little bit nitpicky, but I'm going to do it anyway.

1 The ERA and the YECSIM, the model presentation. Now,
2 Mr. Osler, we see in the filings that you and your
3 associate flew here in person to attend a two-hour
4 workshop. Why did you not videoconference, like all
5 the other partners?

6 **A. MR. MOLLARD:** Mr. Chair, I mean, we try to
7 manage our costs as tightly as we can, and we've used
8 this technology in the past. That trip was not just
9 for that two-hour presentation. We did take the
10 opportunity to -- to continue to work on the -- work
11 together on the -- on the GRA. So it wasn't -- it
12 wasn't a flight up here just for that workshop.

13 **Q.** So why are you charging this particular ERA for -- for
14 two days of accommodations and meals?

15 **A. MR. MOLLARD:** It was -- on purpose, it was
16 either charged to the ERA or the GRA, so regulatory
17 costs regardless.

18 **Q.** And again, this might be a little personal, Mr. Osler,
19 but why do you and an associate need to come to all of
20 these hearings all the time? It's very costly for the
21 consumer when we see your associate sitting there,
22 basically sitting at a chair.

23 **A. MR. MOLLARD:** Mr. Chair, I'm not sure how -- how
24 to particularly deal with this. We -- every member of
25 our team contributes. We all have our duties. I think

1 it's a bit unfair to look around the room and draw a
2 conclusion about the effectiveness of my team. I hold
3 my members to account whether they work for me as
4 employees or whether as consultants, and I feel that we
5 get good value for that work.

6 Q. So you feel that this person is needed?

7 A. MR. MOLLARD: Yes.

8 Q. Okay.

9 A. MR. SRECKOVIC: Mr. Chair, I would like to add
10 something. I used to work for because Hydro, and I had
11 an opportunity to be a part of a similar team. Because
12 Hydro's team is significantly bigger, and Yukon
13 Energy's very keen on keeping the costs tight. And we
14 really try to hire as few people as possible to get the
15 job done, and sometimes we're too lean.

16 Q. Thank you. Mr. Hall, did you and your panel hold a
17 mock hearing for this?

18 A. MR. HALL: Yes.

19 Q. In where?

20 A. MR. HALL: In Vancouver.

21 Q. In Vancouver. At what cost?

22 A. MR. HALL: I don't know the number; we can
23 get that for you.

24 Q. And are you going to apply that this be paid for by the
25 ratepayer?

1 **A. MR. MOLLARD:** **Yes.**

2 **Q.** Even though you've been denied this time and time
3 again?

4 **A. MR. MOLLARD:** **I don't know -- I'm not sure that**
5 **the Board has explicitly denied training costs for**
6 **hearings. I'm not sure what reference you have there.**

7 **Q.** It's not training costs, it's mock hearings where you
8 prepare. Nevertheless, argument.

9 The resource plan. I'm almost finished, so I
10 don't want to get into a major kerfuffle today.

11 The resource plan. Mr. Sreckovic, I guess this is
12 basically your ballpark, although I do have a couple of
13 preliminary questions for Mr. Hall.

14 Was the 2016 resource plan analysis totally
15 developed to formalize internally by your own energy
16 staff?

17 **A. MR. HALL:** **Mr. Chair, the 2016 resource plan**
18 **was certainly a project managed by our internal staff.**
19 **We did obtain specific pieces of work from external**
20 **consultants, but it was down at the detailed level, so**
21 **we used, for example, a firm to help us with the model**
22 **that's used to forecast energy sales based on the**
23 **economic forecasting that we did. And we also used a**
24 **separate set of consultants, for example, to do**
25 **specific studies on technologies such as geothermal**

1 where we look for specific expertise, but it was
2 project managed and a huge amount of work done
3 internally.

4 Q. I believe the cost of this -- I don't have the document
5 in front of me -- is 2 million; is that correct?

6 A. MR. MOLLARD: Ballpark, it's around 2 million,
7 yes.

8 Q. Ballpark, 2 million. Now, can you -- do you have a
9 breakdown? This is going on the rate base, right,
10 correct? You're planning on putting this on rate base
11 for --

12 A. MR. MOLLARD: We're being asked to include this
13 in rates as part of this application, yes.

14 Q. Yes. Do you have a breakdown of the -- the in-house
15 costs and the costs for consultants, including which
16 consultant group was hired?

17 A. MR. HALL: We're just looking for an IR.

18 Q. Breakdown. Do you want the question over again?

19 A. MR. HALL: No.

20 Q. Good.

21 A. MR. MOLLARD: Mr. Chair, it doesn't appear that
22 we were asked to provide a breakdown of the resource
23 plan in any of the IRs, so it's not on the record
24 currently.

25 A. MR. OSLER: And most information in an IR on

1 the record is YUD-YEC-1-83, but it doesn't have a table
2 breaking out what you're asking for.

3 Q. Can I have an undertaking for that, please?

4 A. MR. MOLLARD: Sorry, could you repeat the
5 question, please, just so we get it accurately?

6 Q. What I would like is the total cost of this that you
7 plan on putting onto the rate base, and the costs
8 broken down into internal costs, and then the costs for
9 consultant groups and which consultant group was hired.

10 A. MR. MOLLARD: Okay. I have that.

11 UNDERTAKING - TO PROVIDE THE TOTAL COST
12 OF WHAT IS PLANNED TO BE ON PUT ONTO
13 THE RATE BASE AND THE COSTS BROKEN DOWN
14 INTO INTERNAL COSTS, AND THE COSTS FOR
15 CONSULTANT GROUPS AND WHICH CONSULTANT
16 GROUP WAS HIRED

17 Q. MR. RONDEAU: Now, I am not going to go a lot
18 into this resource plan, but I'm going to give you
19 something that I would like to have on the record, and
20 that's in this GRA we were expected to scrutinize and
21 regulate it -- and regulate this integrated -- this
22 IRP, the DSM program, the third round of the YECSIM DCF
23 ERA, and this YEC 2018 -- 17 - 18 GRA. The resource
24 plan itself sets out hundreds of pages. 800, I
25 believe. Setting out the first decade of short-term

1 action plans with investment in new generation in major
2 capital projects; and then the second term, longer
3 term, an action plan focusing on industrial
4 development. Is that correct?

5 **A. MR. HALL:** Mr. Chair, I don't -- the action
6 plan doesn't -- isn't broken out in that manner. It's
7 just a single action plan; it breaks out by load
8 forecast, so there's a different -- different
9 configurations to the action plan, depending on which
10 load trajectory we end up being on.

11 **Q.** Okay. I think I asked you this already, Mr. Hall, but
12 don't you think all of this to put on one regulatory
13 schedule is -- leads to less scrutiny of the total?

14 **A. MR. HALL:** I think through the whole
15 developments of the resource plan, Mr. Chair, we had
16 active engagement with the public. We had a technical
17 advisory committee on which one of our interveners
18 actually sat. So there was active engagement and
19 dialogue with the public through the development of the
20 plan. So I think it's -- nothing in what the document
21 contained should have been a surprise to anyone.

22 And, you know, I think we -- there was time within
23 the framework of this proceeding for the submission of
24 IRs, and we received many IRs on the IRP, so certainly
25 some of the interveners had a chance to dig into the

1 resource plan and ask questions.

2 Q. So you don't think it was too much for the --

3 A. MR. HALL: No doubt, it's a big document, but
4 that's --

5 Q. And all the other stuff included.

6 A. MR. HALL: That reflects the rigour that we
7 applied because we felt that that level of rigour was
8 appropriate, given, you know, the nature of our system
9 and the range of options that our stakeholders expect
10 us to investigate. So, you know, we did bring industry
11 best practice to bear, and -- and applied what --
12 largely what Mr. Sreckovic brought from because Hydro
13 in terms of methodology, and we thought that was
14 appropriate to use best practice.

15 A. MR. MOLLARD: And these are plans that guide our
16 future in terms of where we're investing in new supply.
17 As evidenced in this proceeding, those are very
18 expensive proceedings. You want to make sure you've
19 done a level of work to satisfy yourself that you've
20 gone in that right direction before you make that
21 long-term commitment.

22 Q. Mr. Sreckovic -- I hope I'm pronouncing your name
23 correctly, Sreckovic.

24 A. MR. SRECKOVIC: Close enough.

25 Q. Close enough? Is there a place in this document where

1 it demonstrates the returns or the benefits that will
2 arise for ratepayers from these investments that you
3 have come forward with in the resource plan?

4 **A. MR. SRECKOVIC:** Mr. Chair, every economic analysis
5 that was applied in the resource plan used standard
6 rate of return for Yukon Energy, so it was at the time
7 of -- of the development of the resource plan, it was
8 combined debt versus equity, and we use real return of
9 3.38. So real return combined debt and equity was
10 3.38 percent. So the answer is yes.

11 **A. MR. HALL:** I think the other piece of your
12 question could possibly be around, did we seek to
13 minimize ratepayer costs? And yes. I mean, the
14 portfolio analysis model that's used, it drove to the
15 lowest cost of ownership for the portfolio.

16 **Q.** And does this product demonstrate that Yukon Energy
17 possesses a stable risk management regime adequate to
18 address the risks that would be inherent in each of
19 these projects?

20 **A. MR. SRECKOVIC:** Mr. Chair, chapter 7 of the 2016
21 resource plan addresses risks and mitigation measures
22 in -- in particular. It is important to keep in mind
23 that every single project is -- every single project
24 presented in the resource plan is at a higher level,
25 and every single project will undergo further

1 development, and every future phase of the project
2 development will take care about removing risks. It
3 is -- it is standard industry procedure, so the answer
4 is yes.

5 Q. And I think you've answered my next one. It says,
6 does -- does the product demonstrate ongoing cost
7 controls? And --

8 A. MR. HALL: Right. Because the -- the -- I
9 mean, to step back a second, we had a whole range of
10 different options to look at: Wind, hydro, geothermal.
11 And so they were evaluated from an economic -- we also
12 looked at environmental and socioeconomic attributes,
13 but at its heart, the portfolio that was selected and
14 recommended in the action plan sought to minimize total
15 cost of ownership, which is essentially is minimizing
16 ratepayer impact.

17 Q. Okay. I think I've answered my next question where
18 I've asked about the economic conditions and the
19 circumstances of the time. So we'll leave it at that
20 time.

21 Does it demonstrate adequately the regulatory
22 tools to ensure that Yukon Energy complies and conforms
23 to YUB recommendations and previous recommendations?

24 A. MR. SRECKOVIC: Could you please provide some
25 background to your question. I'm not quite sure that I

1 understood the point -- or rephrase the question or
2 provide some context. I'm -- I'm not sure that -- that
3 I can answer the question the right way until I know
4 more context.

5 Q. Okay. I don't have any particular YUB recommendation
6 that I can point you to. I guess we'll just leave this
7 to the Board to show or to demonstrate to us that their
8 recommendations are being adhered to.

9 Okay. This is -- this probably will give you a
10 better reference. Maybe this will help. In the last
11 20-year resource plan, the Board recommended 2.1:
12 (as read)

13 "In order to properly test the veracity
14 of load forecasts and to assist in the
15 testing of adjustments to regulatory --
16 or to revenue requirements, the Board
17 suggests that YEC and YECL jointly
18 prepare and file for information
19 purposes 2-, 5-, 10-, and 15-year load
20 forecasts by rate class every two
21 years."

22 Has this been accomplished?

23 A. MR. MOLLARD: No. That's the recommendations
24 coming out of the 2011 report, or was the...

25 Q. The last 20-year resource plan.

1 **A. MR. MOLLARD:** Okay. Well, we did the resource
2 plan in 2006, and we did an update in 2011. I don't
3 know if either of those are on the record here.

4 **Q.** So you're not -- you're not going to answer me whether
5 you have taken this --

6 **A. MR. MOLLARD:** Well, Mr. Chair, to be fair, I
7 would want to see the reference to make sure I
8 understand the context of the recommendation before I
9 could adequately respond.

10 **Q.** Again, I'll leave it up to the Board to make certain
11 that their recommendations are being adhered to.

12 Now we're expecting a new phenomena. We have this
13 resource plan that cost us \$2 million. We're
14 experiencing a new phenomena, and that's independent
15 power production. We have an application for a wind
16 farm on Haeckel Hill, and we're now hearing another
17 application on refurbishing the hydro facilities at the
18 old North Fork. Now, where are these -- what will
19 these -- how will these affect the IPP, the -- the
20 projects that you have in your resource plan?

21 **A. MR. SRECKOVIC:** Mr. Chair, while developing the
22 2016 resource plan, we left a sliver of energy for
23 potential IPPs and we assumed that 10 gigawatt towers
24 per year will be provided by independent power
25 producers started in 2020. Considering we analyzed

1 potential independent power producers' projects and we
2 estimated that 10 gigawatt towers per year would be
3 sufficient, so it is a part of the load resource
4 balance presented in the 2016 resource plan.

5 Q. And Mayo Lake and Southern Lake enhancements are still
6 on the table in this plan; is that correct?

7 A. MR. SRECKOVIC: Mr. Chair, yes, they are.

8 Q. Your report states that you will need to retire some of
9 the diesel starting in 2021, creating even a greater
10 capacity shortfall; is that correct?

11 A. MR. SRECKOVIC: That is correct, Mr. Chair.

12 Q. How many diesels are going to be retired?

13 A. MR. SRECKOVIC: I would have to go to Chapter 4 of
14 the interior resource plan to tell you that. We have
15 to retire two diesels, two Mirrlees, fairly soon.

16 Q. Two Mirrlees. So are these diesels to be retired even
17 if they have a life of several years on their last
18 overhaul?

19 A. MR. SRECKOVIC: Mr. Chair, the problem with those
20 diesels is that -- that the certainty of providing
21 spare parts is almost zero, so there is absolutely no
22 assurance that we can provide spare parts if those
23 engines fail. And based on our reports, those engines
24 can fail any time. So we are -- those engines are on
25 -- in their last days.

1 Q. So we can't just run them until they die; we need
2 something else now?

3 A. MR. SRECKOVIC: Mr. Chair, our -- our estimate is
4 that we can have those units for additional couple of
5 years, and after that, we simply cannot rely on them.

6 A. MR. HALL: Mr. Chair, the point is with your
7 thermal fleet, is they need to be dependable. You need
8 to know that at minus 40, when you need them to come
9 on, that they come on. So their reliability is
10 paramount.

11 Q. Understand. Now there's something that I picked up
12 here in 2020, it's called uprates. Can you tell me
13 what that exactly means?

14 A. MR. SRECKOVIC: Mr. Chair, uprates are
15 improvements to our existing facilities. And most of
16 our existing facilities are hydro based, and new
17 technologies might provide improvements in efficiencies
18 of hydro units, so by replacing older turbines by newer
19 one, we can improve their efficiency, and by doing so,
20 we can increase energy generation.

21 Q. Can you give me a ballpark estimate on how much the
22 battery storage program that you want -- can you give
23 us an estimate on the costs?

24 A. MR. MOLLARD: It's in the GRA tab 5. So based
25 on the plan, for the test years, \$500,000 in 2017 and

1 8.356 million planned for 2018.

2 Q. So approximately 9 million?

3 A. MR. MOLLARD: Sorry, in total? You wanted the
4 total project cost?

5 Q. Yeah; how much will it cost us to put this in?

6 A. MR. SRECKOVIC: Approximately \$20 million.

7 Q. Approximately 20 million.

8 A. MR. SRECKOVIC: Approximately.

9 A. MR. HALL: That cost range is in the
10 application page 536, row 17.

11 Q. It's a breakdown? You have a breakdown?

12 A. MR. HALL: It gives -- it gives the cost
13 range for the battery project from the resource plan.
14 I did make the comment earlier, Mr. Chair, that our
15 project this time is to seek funding for that project,
16 and we will only move forward -- the current plan is
17 only to move forward if there is funding, so the net
18 cost to ratepayers will be expected to be less than
19 that.

20 Q. Funding from?

21 A. MR. HALL: The federal government. We've
22 applied to a federal program that the battery fits well
23 within the scope of that program.

24 Q. Has this been compared -- I don't see anything on -- on
25 future pump storage, not in this particular plan. Has

1 pump storage been compared, the costs, some of the
2 areas, been compared to this \$20 million?

3 **A. MR. SRECKOVIC:** Mr. Chair, we conducted an
4 independent study on the inventory of full potential of
5 pump storage sites in the territory, and we also
6 developed financial, technical, environmental, social
7 and economic attributes, and we -- in portfolio
8 analysis, we also included pump storage, and pump
9 storage was not one of the favourite options that --
10 that came out in the action plan. In essence, pump
11 storage was expensive.

12 **Q.** Much more expensive than the actual battery?

13 **A. MR. SRECKOVIC:** Pump storage is very expensive.

14 **Q.** Okay. And the same thing with gasification. What
15 gasification? Has that been looked at?

16 **A. MR. SRECKOVIC:** Yes, Mr. Chair.

17 **Q.** And the same thing; more expensive?

18 **A. MR. SRECKOVIC:** Expensive, yes.

19 **Q.** More expensive?

20 **A. MR. SRECKOVIC:** It is certainly expensive than the
21 resource options that ended up in the action plan. I
22 would have to look at the numbers to compare, but
23 certainly more expensive than the options ended up in
24 the action plan.

25 **Q.** And it would also provide much more local spinoff?

1 **A. MR. SRECKOVIC:** We -- Mr. Chair, in addition to
2 financial analysis, we also evaluated every single
3 resource option against environmental, social, and
4 economic attributes and we took that into account, and
5 the impact wasn't such to warrant including those
6 options in the action plan, regardless of our personal
7 desires.

8 **Q.** I have just a couple things on secondary sales and I'm
9 finished.

10 Now, if we look at Table 2.1, page 2-17, it's a
11 table, summarizing.

12 **THE CHAIR:** We've got it. Page 46 of B-1.

13 **Q.** Okay. If we look at the trend, the forecasted for
14 secondary sales, we see that the cost is going down.
15 From around six to mid sevens and -- and 5.6 in the
16 test years. Now, if I look at all the others, the
17 wholesales, all the other rates are going up. What I'd
18 like to know is if YEC would be looking at another way
19 to cost these secondary sales besides using thermal
20 costs?

21 **A. MR. MOLLARD:** Well, Mr. Chair, the secondary
22 sales rate that was approved by the Board as an
23 interruptible rate, it's not cost based, it's market
24 based, so it's the avoided cost of heating fuel that
25 forms the basis for that number. Because they're

1 interruptible -- and I've asked Mr. Osler to weigh in
2 if I say this correctly -- but because they're
3 interruptible, they're not really entitled to the same
4 level of services as other customers, so it wouldn't
5 really be appropriate to charge them to cost base rate
6 when they can be kicked off the system if there's not
7 enough water.

8 Q. I understand that, but what I'm getting at is everybody
9 else is paying more rates -- more increases. These
10 guys are getting a deal. Why don't we look at a
11 percentage instead of -- instead of looking at -- I'm
12 not saying they should pay the same rates, I'm saying
13 that they should pay a fair rate, and we could look at
14 percentage of -- of residential customer or commercial
15 customer; probably commercial customer because they're
16 the ones that are competing with these guys.

17 A. MR. MOLLARD: Again, I think there's a bit of a
18 balancing act here. From the secondary sales
19 customer's perspective, they want to know how much
20 they're benefitting, so if I give them a ratio of
21 two-thirds of heating fuel costs, they can understand
22 themselves what that benefit is. The utilities'
23 perspective, the revenue is effectively, I won't say a
24 windfall, but it's if we hadn't sold that power to
25 them, we would have spilled that water and gotten no

1 benefit. So it benefits our ratepayers that secondary
2 sales offsets our revenue requirement, and everybody
3 else pays less for every dollar of secondary sales that
4 I make. So again, it's a bit of balancing act between
5 the customer understanding how much benefit they're
6 getting versus what I can offset against my revenue
7 requirement in total.

8 A. MR. OSLER: And it is a percentage of what the
9 customer would otherwise pay for use of the
10 alternative, which they must have in their system. In
11 order to be a secondary, they must have another option
12 which would be -- is assumed to be oil, and there's all
13 the rules the Board approved, set the percentage, and I
14 can't recall right now whether it's 67 or 75 percent.

15 Q. Is this not an old decision, though? I mean we haven't
16 look at this time for how long?

17 A. MR. OSLER: Let me just finish. 67 percent,
18 just for the record. So you could argue that maybe it
19 should be a higher percentage, and that's open for
20 argument. You can't say, in terms of a secondary sales
21 program, to base it on something other than the
22 percentage of what the customer saves would not be
23 something that would be consistent with sensible or
24 normal principles, but you can debate what percentage
25 it should be, and that's open for argument.

1 Q. The way that it is -- the way that you determine this
2 is open for argument as well.

3 A. MR. OSLER: Everything's always open for
4 argument. I'm just saying if you really want to have a
5 secondary sales to help all customers have some revenue
6 from somewhere else, which really is the point to the
7 people who are not secondary, if you can sell some
8 secondary sales, the company will have some extra
9 revenue which will help reduce the rates to everybody
10 who's on firm. If you want to get rid of the secondary
11 sales, charge them more than they can save and you
12 won't have a problem. But you will have not got any
13 revenue from them to help offset the rates that
14 everybody else is paying.

15 The only other point I'd like to make is that the
16 opening statement made the point that the numbers you
17 see on Table 2.1 are no longer operative. And maybe
18 Mr. Hall or Mr. Mollard can just explain what I've
19 said, but we are not looking at those level of sales
20 for 2018 for secondary sales at all.

21 A. MR. MOLLARD: Yeah, we have over 11 gig in each
22 of the test years 2017, 2018. 2017 we ended up at
23 about 8 gig, I believe, due to some customers having
24 some issues. And I think we've mentioned a couple of
25 times about the low water in Mayo, so we had to turn

1 off secondary sales in December of last year, and we
2 had no secondary sales for the first five months of
3 this year. So I'm not going to make that 11 -- that 11
4 gig sales this year. I'm at risk for that.

5 A. MR. OSLER: And your opening statement is that
6 you won't make anything more than 3.

7 A. MR. MOLLARD: Yes, correct. Yes, my forecast is
8 3 gig.

9 Q. Okay. So your approach basically, then, is we'll do
10 this if we have excess generation; right, and it'll
11 benefit.

12 A. MR. MOLLARD: If we have excess hydro energy
13 available.

14 Q. Yes, understand, that makes sense. But what do you
15 factor into this, as well? Is there anything else
16 factored in or is this simple -- can I give you some
17 examples? Like constraints in the cost of
18 distribution, what it costs to distribute; all of these
19 things are -- all of, or most of -- of secondary powers
20 will through AEY; am I correct?

21 A. MR. MOLLARD: Yes.

22 Q. So are these -- are these restraints, these constraints
23 and costs on distribution, is that factored into what
24 these people are paying, these -- these secondary power
25 users are paying?

1 A. MR. MOLLARD: I'm not -- I'm going to guess a
2 little bit here, Mr. Chair. I'm thinking he's
3 suggesting that the secondary sales somehow constrains
4 our distribution system. That's -- that's not the
5 case. We haven't -- we're not we're not at risk on
6 that side, as far as I understand.

7 Q. Well, it puts -- it puts everything on Yukon Electric's
8 distribution system.

9 A. MR. MOLLARD: Yes, for which --

10 Q. You can say there's no constraints, but they say there
11 is.

12 A. MR. MOLLARD: I can't comment on their system.

13 Q. How about the transmission components for the overall?
14 Are there constraints placed on the transmission?

15 A. MR. MOLLARD: Not to my knowledge, no.

16 Q. Okay. That's all, Mr. Chair.

17 A. MR. OSLER: In layman's terms, the system has
18 to be able to handle the power if it isn't being sold
19 for surplus. So the one thing I would not worry about
20 is the transmission system. If they're -- it's always
21 conceivable that a situation could arise with a
22 particular local area, but nobody's advised us of that
23 that I'm aware of, in terms of distribution. Like, a
24 particular distribution system gets overloaded. If
25 that's the case, then somebody should advise people of

1 it and deal with it. Because you don't -- you
2 shouldn't be incurring a whole bunch of extra costs
3 unless you think you're going to get the revenue back
4 from the secondary sales. The concept is you're not
5 incurring any extra costs, you're pocketing some money
6 to offset all your other costs.

7 Q. Okay. I thought that was all, but I -- I had a few
8 things marked on my -- on my summary that I neglected
9 in other areas. And it is this product here, Yukon
10 Energy Corp., the summary and overview of the
11 application, I'm not sure what document it is.

12 A. MR. OSLER: It's just called the Application
13 at the very beginning.

14 Q. Pardon me?

15 A. MR. OSLER: Is it the application at the
16 beginning or the workshop?

17 Q. It's from the workshop.

18 A. MR. OSLER: Okay. So the workshop that held
19 last -- in August, or the workshop held this year?

20 A. MR. HALL: It's Exhibit B-3.

21 Q. The workshop on August 3rd, 2017?

22 A. MR. HALL: Exhibit B-3.

23 A. MR. OSLER: B-3.

24 Q. Okay. Page 9, and you have a -- am I ready to go?
25 Page 9.

1 THE CHAIR: Just hang on. So whereabouts are
2 we?

3 A. MR. MOLLARD: It is Exhibit B-3, page 9.

4 A. MR. OSLER: It reads, "Requested orders" at
5 the top?

6 Q. MR. RONDEAU: It reads, "Context for this GRA
7 changing load profile."

8 THE CHAIR: Okay. Go ahead.

9 Q. MR. RONDEAU: Page 9. Okay. I'm looking at the
10 first box where it gives you changing load profile, and
11 I go down to the forecast for 2018.

12 THE CHAIR: No, wait a second, I think we're
13 probably not at the same place.

14 A. MR. MOLLARD: Yeah, my slide 9 off of the
15 workshop presentation says, Requested orders. Slide
16 17. Okay. Let's try that. Slide 17 of the same
17 exhibit context for this GRA.

18 THE CHAIR: It's slide 17?

19 MR. RONDEAU: Slide 17, okay.

20 THE CHAIR: It's called, "Context for this
21 GRA"?

22 MR. RONDEAU: Yes.

23 THE CHAIR: Okay. Go head.

24 Q. MR. RONDEAU: Thank you. Go down to 2018
25 forecast of 92.9 megawatts. And does that include any

1 mines, and which mines?

2 **A. MR. MOLLARD:** Yeah, that would be a grid, a grid
3 total, so that would include all customers, and the
4 only industrial customer in that forecast would be the
5 Minto mine.

6 **Q.** For 2018?

7 **A. MR. MOLLARD:** Correct.

8 **Q.** And then below it, it gives the 2018 forecast for firm
9 sales. That excludes -- it's in gigawatt hours, which
10 I don't know why, but I guess -- does that exclude
11 mines?

12 **A. MR. MOLLARD:** No, the mines are included in
13 industrial sales; 38 gigawatt hours.

14 **Q.** 38 gigawatt hours of that 387? Okay. The next one,
15 which is slide -- I need my glasses -- 18 I guess it
16 would be, right below it. And again, it's a changing
17 load profile. And I guess what I would like to see is
18 an actual for 2017 of this.

19 **A. MR. MOLLARD:** Actual sales by customer class for
20 2017?

21 **Q.** Yes.

22 **A. MR. MOLLARD:** I would refer you to UCG-YEC-2-18
23 Attachment 1 has updated sales numbers for 2017 by
24 customer class.

25 **Q.** It's just not put into a graph, it's --

1 **A. MR. OSLER:** **This was done in August.**

2 **Q. UCG --**

3 **A. MR. OSLER:** **2-18.**

4 **Q. 2-18. Okay. That's the 2017 update.**

5 Number 19, dependable capacity, and here we have
6 the two retired Mirrlees since 2013. Where are these
7 retired Mirrlees?

8 **A. MR. MOLLARD:** **In the diesel plant.**

9 **Q. They're still in the diesel plant?**

10 **A. MR. MOLLARD:** **They've been removed from the**
11 **system, but they're still in the diesel plant.**

12 **Q. They were never sold to B.C. Ferries?**

13 **A. MR. MOLLARD:** **No, we didn't get any hits on**
14 **that.**

15 **Q. Not that you're aware of.**

16 Number 25 gives you rate base growth, the drivers,
17 and the second one depreciation, amortization, expense
18 growth. Does that include interest?

19 **A. MR. MOLLARD:** **No.**

20 **Q. Interest is a separate entity; correct?**

21 **A. MR. MOLLARD:** **It's a separate expense item, yes.**
22 **It's included, and if you're just referring to that**
23 **slide, it would be included in the return on rate base.**

24 **Q. Oh, I have Gladstone flagged here. I won't go back to**
25 **that one.**

1 Oh, yeah, the uprate. You've explained that.
2 Operation and maintenance, Number 35. Now, is
3 this -- is this both operation and maintenance of the
4 facilities, and does it include administration costs as
5 well?

6 **A. MR. MOLLARD:** Yes.

7 Q. So it's 22 percent higher, you're saying, than the last
8 -- the last approved GRA?

9 **A. MR. MOLLARD:** Yeah, we're seeking 22 million
10 versus 2013 approved of 18 million, subject to check.

11 Q. 3.9 difference?

12 **A. MR. MOLLARD:** Yeah.

13 Q. Okay. And I have a hard time seeing this: Does it
14 break down the administrative and the -- and the O&M
15 costs here?

16 **A. MR. MOLLARD:** Yeah. Mr. Chair, the breakdown of
17 these items is right out of the application Table 3-3
18 and provides the breakdown by function.

19 Q. Table 3-3?

20 **A. MR. MOLLARD:** 3.3, sorry, on page 3-5.

21 Q. Are the mines the driver of thermal?

22 **A. MR. HALL:** Sorry, can you repeat the
23 question?

24 Q. Are the mines the driver of thermal usage?

25 **A. MR. HALL:** Could you clarify which mines

1 you're referring to?

2 Q. Okay. I will look at when Victoria mine comes online,
3 will they drive thermal?

4 A. MR. HALL: In our PPA application, we
5 outlined the expected thermal consumption, including
6 Victoria Gold load, and we looked at a couple of load
7 years for that analysis. But to be clear, the Victoria
8 Gold load is not included, Mr. Chair, in these test
9 years.

10 Q. Okay; will it drive thermal?

11 A. MR. HALL: Thermal -- thermal consumption
12 will be higher in the absence of newer and newer
13 (inaudible).

14 Q. Yes. Thank you. That's it.

15 THE CHAIR: Okay. So there's just a couple of
16 things I want to go over, maybe before you leave your
17 seat there. Can we just agree on what undertakings we
18 have out of this? So those -- still have those July
19 3rd ones. We don't have the -- I think we got the 2018
20 fuel mix so far; we got that one answered. And we
21 confirmed that one.

22 A. MR. MOLLARD: I think the next one I have,
23 Mr. Chair, is we're to reconcile the sales of power.

24 THE CHAIR: The three numbers.

25 A. MR. MOLLARD: Yeah, between UCG 218 and the

1 **Section 25 filing.**

2 THE CHAIR: And then I have any sole-sourced
3 studies on runoff at (inaudible). Any other
4 sole-sourced contracts in that, in the LNG thing?

5 **A. MR. MOLLARD: Yes.**

6 THE CHAIR: Okay. And then we were going to
7 get some comments on the difference between the SAIFI
8 and -- the YEC SAIFI and the CEA SAIFI. Wasn't there
9 -- I have a note here.

10 MR. RONDEAU: The CEA, not the --

11 THE CHAIR: Explain the difference.

12 MR. RONDEAU: The Canadian Electrical --

13 THE CHAIR: On that chart, they were
14 showing --

15 **A. MR. MOLLARD: Five-year average.**

16 THE CHAIR: Yeah, the five-year average thing.

17 MS. BENTIVEGNA: Sorry, Mr. Chair, the court
18 reporter can't get what everybody is saying.

19 THE CHAIR: Okay. Sorry. So the next one I
20 had was a commenting on the differences between, on
21 that five-year average, the YEC SAIFI and the CEA
22 SAIFI?

23 **A. MR. MOLLARD: Yes.**

24 THE CHAIR: Okay. And then I think this last
25 one, there's just one more, was this resource plan,

1 internal costs and -- and any consultants in groups,
2 and that's work in process, right?

3 **A. MR. MOLLARD:** Yes.

4 **THE CHAIR:** And I think that's what I have,
5 the list so far.

6 Okay. So, Mr. Rondeau, we're wrapped up with you
7 now. So the Board is -- has got in front of it the
8 Board's questions for this panel, and then we have a
9 witness to seat, and then some cross-examination. So
10 the Board's considering starting a little earlier
11 tomorrow morning. Does that -- is that a problem for
12 anyone if we start at 8:30 instead of at 9? Or does 9
13 -- I'm looking for some guidance. If 9 works best,
14 then we'll go with that.

15 **MR. RONDEAU:** 8:30's fine here.

16 **THE CHAIR:** Any comments? Mr. Landry has his
17 hand up, I think.

18 **MR. LANDRY:** Yeah, I have a bit of a problem
19 with an 8:30 start, sir. I apologize, but I do have a
20 call that I can't change.

21 **THE CHAIR:** Okay. I think that we can start
22 at 9, that'll --

23 **MR. LANDRY:** Thank you.

24 **THE CHAIR:** So we'll stay with the 9 o'clock
25 start, and we'll start with this panel up again and the

1 Board's questions.

2 Are there any other matters that we need to tidy
3 up before we -- before we close today? Ms. Bentivegna,
4 anything? No?

5 MS. BENTIVEGNA: No, Mr. Chair.

6 THE CHAIR: All right, so we'll adjourn for
7 the day, and we'll see you all tomorrow morning. Thank
8 you.

9 (PROCEEDINGS ADJOURNED AT 5:37 P.M.)

10 _____
11 PROCEEDINGS ADJOURNED TO 9:00 A.M., JUNE 27, 2018
12 _____

1 Certificate of Transcript

2
3 We, the undersigned, hereby certify that the foregoing
4 pages 216 to 428 are a complete and accurate transcript of
5 the proceedings taken down by us in shorthand and
6 transcribed from our shorthand notes to the best of our
7 skill and ability.

8 Dated at the City of Whitehorse, Province of Alberta, on
9 June 27, 2018.

10
11
12 "D. DiPaolo"

13 D. DiPaolo, CSR(A)
14 Official Court Reporter

15
16 "A. Jones"

17 A. Jones, CSR(A)
18 Official Court Reporter

- I N D E X -

June 27, 2018

Volume 2

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The transcript is the official record, and the index is provided as a courtesy only. It is recommended that the reader refer to the appropriate transcript pages to ensure completeness and accuracy.

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