

1 YUKON UTILITIES BOARD

2

3

4

5

6

7

8 YEC 2021 GENERAL RATES APPLICATION

9

10

11

12

13

14

P R O C E E D I N G S

15

16

17

18

Volume 2

19

September 28, 2021

20

Held via videoconferencing

21

Whitehorse, Yukon

22

23

24

25

1 Proceedings taken at the Raven Inn, at 150 Keish St., via
 2 videoconferencing, Whitehorse, Yukon.

3

4 Volume 2

5 September 28, 2021

6

7 Richard Buchan	Chair
8 Bonnie King	Vice-chair
9 Andre Fortin	Board Member
10 Anne Middler	Board Member
11 Lesley McCullough	Board Member

9

12 Alison Sabo	Board Counsel
13 Jaimie Graham	Board Counsel

10

14 Deana Lemke	Board Staff
15 Dwayne Ward	Board Staff
16 Abhinav Ayri	Board Staff
17 Lorrie Mullen	Board Staff

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

P. John Landry, QC For Yukon Energy Corporation

Christopher Cullingham For ATCO Electric Yukon

Keegan Rutherford For the City of Whitehorse

Roger Rondeau For Utilities Consumers' Group

Nathaniel Yee In his own stead

Lorelee Vespa CSR(A) RPR CRR Official Court Reporters
 Donna Gerbrandt, CSR(A)

20

21 (PROCEEDINGS COMMENCED AT 8:31 A.M.)

22 THE CHAIR: Good morning, everyone. Welcome
 23 to Day 2 of our GRA hearing.

24 Before we get started back with the evidence, are
 25 there any preliminary matters anybody wishes to

08:23

1 address?

2 MR. LANDRY: None from my perspective.

3 THE CHAIR: I see Mr. Landry's lips moving,
4 but we're not getting any sound.

5 MR. LANDRY: Can you hear me now?

6 MS. GRAHAM: Mr. Chair, can you hear me? I can
7 hear Mr. Landry.

8 Mr. Chair, can you hear me?

9 THE CHAIR: I can hear you. Mr. Landry, can
10 -- give us a try. 08:32

11 MR. LANDRY: How is that? Is that any better?

12 THE CHAIR: Perfect.

13 MR. LANDRY: Okay. That was a quick resolution
14 of an IT problem, one of the best I've seen.

15 Mr. Chair, there's nothing from our perspective.
16 Thank you.

17 THE CHAIR: Okay. Now, we just -- I just
18 wanted to clarify. We had spoken yesterday about
19 Mr. Yee's aid to cross and kind of zeroing in on the
20 parts that he referenced. Have we got some
21 conversations going on about that? 08:32

22 MR. LANDRY: Not yet, sir. I apologize. I can
23 do that at the break or whatever, when Mr. Yee and I
24 can have a conversation.

25 THE CHAIR: Sure, yeah. I mean, we've

1 assigned a number to whatever it is that's going to be
2 the product of those conversations, so that's fine.
3 We've got time yet to do that, so... Okay.

4 MS. SABO: Yeah, Mr. Chairman, I would just
5 like to add that just when we get resolution on that,
6 the court reporters will note the assignment of that
7 exhibit at that time on the transcript, but they won't
8 add that C4-8 to the transcript until that issue is
9 resolved.

10 THE CHAIR: Right, yeah. We'll just reserve
11 that number for that purpose.

12 MS. SABO: Thank you, Mr. Chairman.

13 THE CHAIR: Okay. Mr. Rondeau.
14 Jeff, can we get the gallery view?

15 MR. HAMM: Yeah. Mr. Rondeau has not yet
16 joined the meeting.

17 MS. LEMKE: I'll call him.

18 MS. GRAHAM: If it helps everyone, just while
19 we're waiting, I just got a message from the Board
20 secretary saying that she got in touch with Roger and
21 is working through his technical issues with him, so
22 we'll hopefully hear from everyone shortly.

23 MS. SABO: On that note, feel free to turn
24 your cameras off while we're waiting. Don't feel
25 obligated that you have to be visible.

08:33

08:44

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 (ADJOURNMENT)

2 THE CHAIR: Sorry, everyone. Mr. Rondeau is
3 having continuing technical problems, so Deana's
4 husband is going up to try and get him sorted out.

5 So in the meantime rather than take up any more
6 time, perhaps we can move over to --

7 Ms. Sabo, are you ready to go ahead with your
8 questions of the YEC panel?

9 MS. SABO: Certainly, Mr. Chairman. Why
10 don't we just take a quick five-minute break, and then
11 I'll be ready to go.

12 THE CHAIR: Sure.

13 MS. SABO: Thank you.

14 THE CHAIR: Okay. One more five-minute break.

15 (ADJOURNMENT)

16 THE CHAIR: Ms. Sabo, are you ready to go?

17 MS. SABO: Yes, Mr. Chairman. Thank you for
18 the break. My desk isn't really well configured. I
19 have to move some stuff around, so I appreciate that.

20

21 **A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP**

22 **(For Yukon Energy Corporation), previously affirmed**

23 **MS. SABO QUESTIONS THE PANEL:**

24 Q. Good morning, YEC panel. You know, we appreciate you
25 being here today. I am going to be covering three

08:59

09:04

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 areas this morning: return on equity, the low water
2 reserve fund, and demand side management.

3 In my questioning today, I will be referring to
4 the application, of course; the consolidated IRs
5 Round 1; the revised IRs for Round 1; and the
6 consolidated IRs for Round 2.

7 The other document that I want you to have
8 available, of course, is the OIC, the 2021-16 OIC. So
9 if you could have that document pulled up, that would
10 be helpful as well.

09:05

11 And the other proviso I'm just going to give is I
12 appreciate we don't have a legal expert on the panel,
13 so I'm going to try and restrict my questions to
14 non-legal questions, but certainly stop me if you feel
15 like you need clarification or you're not able to
16 answer for some reason.

17 Okay. I'm going to start out with questions on
18 the ROE and Section 9(4) of the OIC. From YEC's
19 perspective, does the OIC remove uncertainty regarding
20 the forecast or risk of interim incremental load over
21 forecast in the low water reserve fund? Is that the
22 purpose of the OIC?

09:06

23 **A. MR. MOLLARD:** I'm sorry, Ms. Sabo, could you
24 give me that reference to the OIC again, please?

25 **Q.** It's a general question, but if you want to look at

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 specifically 9 -- Section 9(4), please pull that up?

2 So our understanding of the OIC generally is that,
3 you know, it sets out, you know, the forecasts to be
4 addressed under the OIC and then there's the true-up or
5 a deferral mechanism. So from your perspective, you
6 can agree or disagree with that, but our main question
7 we're asking you here is, does the OIC itself remove
8 uncertainty regarding your forecast risk -- forecast or
9 risk of incremental load in the low water reserve fund?

10 A. MR. MOLLARD: Okay, I think I have that now.
11 Thank you.

09:07

12 Yes. I would like to remind the Board that the
13 low water reserve fund in various forms has been in
14 place in Yukon since the early '90s, and excluding
15 recent decisions, the amount of forecast risk YEC had
16 under those previous iterations is the same as what
17 this OIC does.

18 So, yes, we have less forecast risk, but we never
19 had that forecast risk since '91 when this fund was
20 created.

09:08

21 Q. So I guess, Mr. Mollard, your position would be that
22 this OIC maintains a status quo on how the fund
23 operates?

24 A. MR. MOLLARD: That would be an accurate summary.
25 Yes, thank you.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 Q. Okay. And in doing that -- so if it's maintaining
2 status quo, do you think there is any barriers to it,
3 recognizing either the risk of the utility or, you
4 know, an impact on ratepayers from this being
5 enumerated in the OIC versus there being some
6 flexibility either on behalf of the utility or the
7 Board to come up with alternate proposals?

8 A. MR. MOLLARD: I can't think of a barrier. I
9 mean, I think the fundamental principle that the OIC
10 captures is the protection of long-term average, and,
11 that when setting rates, it's important that our
12 revenue requirement reflects that long-term average,
13 not a short-term average, not a drought deferral
14 account; it needs to be based on long-term average.

09:09

15 Q. Okay. And given that the OIC maintains a status quo,
16 what was the reason for the OIC? You know, I would
17 assume that there would have been a driver to put it in
18 text to the Board.

19 A. MR. MOLLARD: Sure. So --

20 MR. LANDRY: Maybe, Mr. Mollard -- sorry, I put
21 my hand up there, Ms. Sabo, and maybe the Chair didn't
22 realize it.

09:09

23 Obviously, Mr. Chair -- and I know Ms. Sabo
24 understands this, this was -- the OIC was made by
25 Cabinet, the government, and Yukon Energy can't speak

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 on behalf of the Cabinet or in terms of how or why the
2 decision was made by Cabinet. And I'm sure that's not
3 your intent in the question, Ms. Sabo, but it just
4 sounded a little close to that. So perhaps we could,
5 just for the record, so we don't run afoul of that
6 proposition, if you could just -- if we could keep that
7 in mind.

8 MS. SABO: Thank you, Mr. Landry.

9 Q. And, certainly, Mr. Mollard, I'm just trying to get the
10 understanding from YEC's perspective or your
11 perspective on why the OIC was necessary, not
12 necessarily why -- you know, the reasons that the
13 minister approved it.

09:10

14 A. MR. MOLLARD: Sure. Yeah, so I think I can do
15 that without crossing that line.

16 So, obviously, we are owned by Government Yukon.
17 We provide them with updates on key activities,
18 obviously of which the GRA is a very key corporate
19 activity. And when we got the results of the last
20 order, we explained from our position what the impact
21 of that decision was and could be.

09:11

22 The discussions that I recall with our parent,
23 there was concern, in part, around the financing impact
24 to the company.

25 Yukon Energy Corporation is part of -- for the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 purposes of the *Yukon Act*, Yukon Energy is part of the
2 government reporting entity. I cannot borrow money
3 externally without approval of the Yukon Government
4 Management Board.

5 So when we look at water management and water
6 flows and the risk of a drought and the financial
7 impact of a drought, I think we put in the evidence
8 that, you know, if we got a drought like we had in the
9 '90s, the fuel bill for that would be roughly
10 \$30 million, and that's money I don't have. So I would
11 have to go through management board to get borrowings
12 to allow me to pay those fuel bills.

09:11

13 So the government recognized this and they wanted
14 to not -- they don't like surprises when it comes to
15 financing; they like to know what's coming. So my
16 understanding from the discussions was that this OIC
17 allows us to have a bit more protection from that
18 downside risk and doesn't put that financing burden on
19 the government right away.

20 Q. So that's a financial risk or a financial uncertainty
21 to YEC and its parent?

09:12

22 A. MR. MOLLARD: Yes.

23 Q. Okay. Thank you. You might not have an answer to
24 this, and that's fine. I'm just trying to think about
25 this from a Board's perspective.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 In YEC's view, you know, this OIC came into effect
2 in November -- or is effective November 20th. So, in
3 YEC's view -- and I think it's in its application and
4 IRs -- but that the OIC is not necessarily consistent
5 with prior decisions.

6 So do you have a view on how the Board, you know,
7 should determine, you know, the -- or consider
8 complying with the OIC given that it's not necessarily
9 consistent with its past decisions?

10 And if you don't have a view now and you want to
11 leave that to argument, that's fine.

09:13

12 MR. LANDRY: Perhaps, Mr. Chair, if I can,
13 because every time we talk about OIC and legislation,
14 we run into the issue of interpretation and, obviously,
15 a company has an interpretation legislation and the OIC
16 in order to file various issues, but at a basic level,
17 the legislation and the OIC is effectively the Board's
18 mandate that has been provided by the government.

19 And so, from that perspective, it seems to me it's
20 close to the line, Mr. Chair and Ms. Sabo. I have no
21 difficulty with questions on how YEC interprets the OIC
22 or the legislation because, obviously, they're making
23 filings according to the established mandate by
24 government for the Board.

09:14

25 So I don't know whether that means that we should

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 perhaps, Mr. Chair, or through Ms. Sabo, deal with this
2 questioning in argument; but, again, I think we're
3 getting very close to the line here of, you know, legal
4 interpretation of the Board's mandate.

5 **THE CHAIR:** Yes, Mr. Landry, I tend to agree
6 with your approach to maybe limiting the questions to
7 how YEC applies the OIC, as they understand it, and
8 steer away from interpretation. That will be your job
9 in submissions.

10 **MS. SABO:** Thank you, Mr. Chairman and
11 Mr. Landry. Like I say, I know it's a grey area.

09:15

12 **Q.** Mr. Mollard, is the risk of incremental generation
13 costs for incremental loads above forecast, you know,
14 is that risk now covered under the OIC? You don't have
15 to worry as much about those incremental loads above
16 forecast and the risk related to that?

17 **A. MR. MOLLARD:** No, I don't believe so. I think
18 it's important to note that the low water reserve fund
19 only deals with variances from expected generation.

20 I still have the full risk if, for instance, a
21 mine drops off in a year, I lose those revenues, that's
22 at my risk. So I wouldn't say that, no, we don't
23 have -- we're not fully covered for -- fully covered
24 for forecast risk, if that was the question.

09:16

25 **Q.** Okay. Thank you. And I guess it would depend on the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 threshold as well; right?

2 **A. MR. MOLLARD:** Yes.

3 **Q.** Thank you. So given your responses this morning that,
4 you know, some risks are covered and some risks are
5 not, the financial risk is still a live risk that was
6 intended -- or that YEC has stated was one of the
7 drivers for the OIC. Can you tell me whether you think
8 that the Board should be concerned about adjusting the
9 ROE to reflect that there's a change in business risk
10 or financial risk to YEC?

09:17

11 **A. MR. MOLLARD:** Yeah, Ms. Sabo, I would refer to
12 my earlier comment that we've been using the same
13 approach to setting our ROE since 2005, and we had the
14 same protections under long-term average in 2005 and
15 '12, '13 and '17 -- well, '17, '18 is when the Board
16 changed their position on us.

17 So I don't see that as a change. We had that
18 protection in 2005 and we use this approach that the
19 Board has supported in the past to determine our ROE.
20 So I don't see that as a change.

09:17

21 **Q.** Okay. And, in your view, then, you wouldn't think any
22 risk has shifted to the ratepayers as a result of this?
23 We're just going back to an earlier time period
24 where --

25 **A. MR. MOLLARD:** No, I don't believe so. I believe

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 the record is pretty clear that the -- and this is a
2 principle in our world that applies to other factors.
3 Those items that are essentially beyond the control of
4 the utility, those are risks that are borne by
5 ratepayers.

6 As an example, the commodity price of fuel. That
7 went to the point where the government actually put it
8 in law that the utilities are to be protected from
9 variations in commodity prices.

10 The same situation here. I can't control water
11 flows. So to the extent that my costs vary from --
12 because of those water flows, natural water flows, the
13 utility needs to be protected through rates.

14 Q. Right. And, Mr. Mollard, I know from my history and
15 from the record, the biggest concern is when there's
16 drought conditions; right?

17 A. MR. MOLLARD: Yes. The history in the Yukon
18 tends to be very long periods of lots of water with --
19 and, again, depending on the load on the system, but,
20 you know, in the early 2000s, the history was you would
21 have long periods where there would be almost no
22 thermal on the system, and then we'd have a drought and
23 we'd have to run everything we've got just to keep the
24 lights on.

25 Q. Right. Thank you for that context, Mr. Mollard.

09:18

09:19

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 That leads me well into some questions on the low
2 water reserve fund, and I'm going to refer you to the
3 application, pdf page 76.

4 **A. MR. MOLLARD:** **Okay, I'm there.**

5 **Q.** And YEC states, starting at line 2, and this is a long
6 quote, but I am going to read it in: (as read)

7 "The Low Water Reserve Fund, previously
8 called the Diesel Contingency Fund, is a
9 long established deferral account that
10 operates to smooth customer rate changes
11 from thermal (diesel, LNG and other
12 thermal) generation cost impacts caused
13 by the fluctuation of hydro or wind
14 generation due to changes in water
15 conditions or changes in wind
16 conditions. The low water reserve fund
17 is only used to -- is only to be used
18 for variations from the long-term
19 average water and wind availability.

09:19

20 Thermal generation costs not related to
21 changes in water or wind conditions are
22 not included in the low water reserve
23 fund determinations, including thermal
24 generation costs due to equipment
25 failure, force majeure, capital

09:20

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 projects, or planned maintenance events.

2 YEC manages the low water reserve fund

3 as a ratepayer 'trust fund.' The low

4 water reserve fund, and the prior DCF,

5 ensures that the Fund (and utility

6 ratepayers), rather than YEC earnings,

7 paying for or benefit changes to grid

8 thermal generation due to fluctuation in

9 grid hydro generation due to water

10 condition changes that are beyond the

11 utility's control."

12 So that's a long quote, and I just want to deconstruct
13 it a bit, so that's why I've read it in.

14 So YEC's description in that paragraph includes
15 terms such as variations of long-term average and
16 ratepayer trust fund.

17 Given that, does YEC agree that its position in the
18 past was that the low water reserve fund was to mitigate
19 the effects of droughts, including severe droughts, such
20 as those occurring once in a 30-year or 35-year event?

21 A. MR. MOLLARD: I don't think I'd use the word
22 "mitigate," Mr. Chair. To my mind -- because the cost
23 of the drought is going to be the cost of the drought,
24 and the only question is who pays for it and when.

25 So the low water reserve fund itself is really

09:21

09:21

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 just a smoothing mechanism so that ratepayers don't
2 have to pay for the drought all at once. So if I -- if
3 I have good water for a period of time, I'm building up
4 that fund, so when the drought happens the fund absorbs
5 that impact. Ratepayers have already put that money
6 aside.

7 So by "mitigate," I can't -- I can't reduce the
8 cost of the drought. The drought is going to cost what
9 it costs. The low water reserve fund then is a
10 smoothing mechanism that allows ratepayers to pay for
11 it over time as opposed to having volatility in rates,
12 and I think that's clearly going on the record back to
13 '91 when the Board told us to set up this fund, that
14 they wanted -- that the primary objective was to reduce
15 volatility of rates to ratepayers.

09:22

16 Q. Okay. Thank you, Mr. Mollard. That leads me to the
17 next question, and this might be obvious to you, but I
18 just want to confirm that it's expected that the low
19 water reserve fund will maintain a positive balance so
20 that there will be funds in the account to mitigate --
21 or I don't want to use "mitigate" again -- to account
22 for the impact --

09:23

23 A. MR. MOLLARD: Yes.

24 Q. -- of those occurrences of low water reserve?

25 A. MR. MOLLARD: Yes.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 Q. Okay. Does increasing the low water reserve fund cap
2 from plus or minus 8 million to plus or minus
3 16 million increase the likelihood that there will be a
4 positive cash balance in that fund?

5 A. MR. MOLLARD: Yeah. I think -- I don't have the
6 specific reference. I think -- this, again, from our
7 perspective, Mr. Chair, goes to the impact of
8 volatility of rates.

9 So at a \$16 million cap, we guesstimate that 26
10 out of 35 years, there would be no rider to ratepayers.
11 So, really, it's just that based on our forecast of
12 what we think is going to happen, the higher cap
13 basically reduces the number of rate changes that are
14 required over time.

15 Q. And potentially the regulatory burden associated with
16 that as well?

17 A. MR. MOLLARD: Yes.

18 Q. Okay. Thank you, sir.

19 If the fund was in consistently a negative
20 position, what would YEC do? Would you apply to us?
21 What would the analysis be if it was in a negative
22 position for a significant period of time?

23 A. MR. MOLLARD: Sorry, Ms. Sabo, subject to check,
24 I think the term sheet has triggers built into it for
25 at what point we would be able to come to the Board for

09:24

09:24

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 an adjustment.

2 So I think at the current time we need to hit the
3 limit before we come to you for an adjustment. So it's
4 \$8 million cap. So if I was \$8 million upside down or
5 \$8 million to the good, I would be coming to the Board
6 to either ask for a rate rider to build the fund back
7 up or a refund rider to give money back to ratepayers
8 because I've got too much.

9 Q. Okay. Is there any operational mechanics that you
10 would have to take into consideration as well as what's
11 in the term sheet? Or is it literally just make sure
12 that you're maintaining within levels that wouldn't
13 trigger the threshold in the term sheet?

09:25

14 I'm just trying to kind of understand the process
15 that you would be doing to kind of monitor and account
16 for that on YEC's end.

17 A. MR. MOLLARD: Yeah. So I might defer to my
18 colleague Mr. Epp on the mechanics, but the fund is
19 only adjusted annually. So we need to have our actual
20 generation for the year before we can figure out what,
21 if any, long-term average impact there is to the fund.
22 So it's really at that point that we do our accounting
23 adjustments to figure out where the balance is at, and
24 that would be the point at which we would say, okay,
25 you know, we're over -- above or below those cap limits

09:26

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 so we either need to -- we don't have to do anything,
2 we file our annual report as we're required to with the
3 Board and we're done, or there is a problem, we're over
4 or under that cap, and we're obligated to provide an
5 application to the Board to adjust the rate rider.

6 Q. I'm going to move back to what happens if we've got a
7 positive balance in the fund. If YEC generally
8 anticipates a positive balance in the fund over time,
9 would the fund be considered a long-term capital asset
10 that would attract a return on rate base? You know,
11 some reserve funds almost become like a capital
12 investment.

09:27

13 A. MR. MOLLARD: Okay. Yeah, I understand the
14 point -- and I'm stretching myself a little bit here
15 because we haven't thought about that concept in a
16 while -- but I don't believe so. It is -- we manage it
17 as an employee -- or employee, sorry -- as a ratepayer
18 trust account. It's not my money. I don't have any
19 rights to it. The Board establishes the rules by which
20 I can put money into it or take money out of it, but
21 it's not my asset, so I ought not to earn a return on
22 that.

09:27

23 Q. Mr. Epp, I didn't give you a chance to weigh in on this
24 question or the previous one, so if you have anything
25 to add, now is your chance.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 A. MR. EPP: No. So far Mr. Mollard has
2 accurately described how I understand the funds work.
3 As I said, mechanics would not change, whether --
4 whatever the balance is we'll treat it the same. We'll
5 account for it the same every year. It will just -- if
6 we are over a limit, like I said, we'll either -- in
7 most cases it would be a refund, but if it goes the
8 other way, then, yeah, like I said, there might be an
9 additional rider charge just to get back within that
10 limit.

09:28

11 Q. Okay. Thank you very much, gentlemen. That gives me
12 some context.

13 So given that you would consider it to truly be --
14 operate like a trust fund, money in trust that's not
15 your own, I'm assuming you wouldn't consider the low
16 water reserve fund to be treated as an offset to your
17 rate base? Again, that goes to --

18 A. MR. MOLLARD: Yes, that would be correct.
19 Sorry, go ahead.

20 Q. I was going to say go ahead and respond.

09:29

21 A. MR. MOLLARD: Okay, sorry. No, I would consider
22 that, as a ratepayer trust fund, it would be outside of
23 rate base.

24 Q. It wouldn't be capitalized?

25 A. MR. MOLLARD: Subject to check, I don't think

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 so.

2 Q. Okay. Thank you, Mr. Mollard.

3 MS. SABO: Mr. Chairman, I understand that
4 Mr. Rondeau is now on the line. I can either break for
5 now and have him continue questioning, or I've got
6 maybe half an hour or 40 minutes on demand side
7 management.

8 So I'm in your hands whether you want me to
9 continue or if you would like Mr. Rondeau to go first.

10 MR. RONDEAU: As far as my concerns, I would
11 just as soon have you keep going and come in when the
12 opportune comes in the afternoon.

13 MS. SABO: Okay, Mr. Rondeau. Like I say,
14 I'm probably going to go to our morning break or just a
15 little bit after our morning break. So you would be up
16 after that.

17 Is that okay with you, Mr. Chairman?

18 Can the boardroom hear me? I'm not sure if you
19 have your mic on, Mr. Chairman. I can't hear you.

20 THE CHAIR: Sorry. Now it's on. Now you can
21 proceed.

22 MS. SABO: Thank you. Thank you,
23 Mr. Chairman. I don't like to take those types of
24 liberties.

25 Q. So, again, I'm going to be referring to the OIC and in

09:29

09:30

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 a general way in terms of demand side management, but
2 I'm not going to take you to any specific provisions,
3 except for maybe one.

4 I'm going to start off in IR responses, and I
5 would like to take you to the consolidated IRs, the
6 Round 2 and to YUB-YEC-2-17, and that's at
7 pdf page 153. And I'm looking at the responses to (a)
8 and (b). So IR 17(a) and (b), pdf 153.

9 And on that page there's a table for the cost
10 breakdowns for the DSM project and explanations for
11 variances. And just let me know when you're there.

09:31

12 MR. LANDRY: Mr. Chair, I wonder if -- just for
13 the record, I don't know the answer to this, I
14 apologize, but is the OIC actually on the record and as
15 evidence? That's a question I was just wondering,
16 Ms. Sabo.

17 MS. SABO: I don't know if it is, Mr. Landry,
18 but I know it's posted on the Board website. Yeah. So
19 I'm not sure if it's been filed anywhere.

20 MR. LANDRY: Okay. Why don't you and I have a
21 conversation at the break, Ms. Sabo, about that,
22 whether it's needed from my perspective or yours, and
23 then we can get back to the Board.

09:32

24 MS. SABO: That's a good --

25 THE CHAIR: Yeah. My view is, I mean, it's a

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 piece of legislation. It doesn't need to be assigned
2 an exhibit number or anything. It's just part of our
3 context that we're working with.

4 MR. LANDRY: I think that's right, sir. It's
5 just the way the questioning has gone on whether or not
6 we technically need an actual hard copy. If I could
7 beg your indulgence, I'm sure Ms. Sabo and I could have
8 a chat, and we'll come back to you with my thought.

9 THE CHAIR: Certainly. And, you know, if we
10 need to have it put up on the screen, that's readily
11 doable as well.

12 MR. LANDRY: Thank you. Thank you, sir.
13 I apologize, Ms. Sabo.

14 MS. SABO: No. Thank you, Mr. Landry. It
15 was a good question.

16 Q. So do you have that IR pulled up, YEC panel?

17 A. MR. HALL: Yeah.

18 A. MS. MILOJEVIC: We do, yes.

19 Q. Thank you. Can YEC explain the costs that are included
20 for the 2021 demand side management program development
21 line item of -- and, again, it's in 2021 -- of
22 \$335,000? So can you give us a breakdown what's in
23 that 335?

24 A. MS. MILOJEVIC: Yes. Subject to check, I believe
25 about 250,000 of that value is the gross amount of the

09:33

09:33

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 residential demand response pilot work for 2021. So
2 the contributions you see in the line below are the
3 funding that offset that amount. The remaining,
4 approximately 85,000, is for program development for
5 new DSM programs.

6 Q. Thank you, Ms. Milojevic. For 2020, can you talk about
7 the status of the residential demand response pilot?
8 Is that program completed or is it going to -- is it in
9 2021 as well now?

10 A. MS. MILOJEVIC: So, as I said, in 2021 there is
11 \$250,000 for the pilot. In 2020 there would have been
12 the shipment of the hardware devices.

09:34

13 And just to give folks a sense, if they're not
14 familiar, the pilot is to install hot water heater
15 and -- hot water tank heaters and baseboard heater
16 controllers in customer homes that can be controlled by
17 the utility so that during a peak event we can reduce
18 the usage of those devices to reduce the amount of
19 generation we need to supply.

20 So the installation of those devices, the
21 recruitment of participants, and the running of test
22 events over the 2020 and 2021 winter are what has been
23 completed in the pilot so far.

09:35

24 Q. Okay. And are the forecast costs for 2021, those are
25 forecasts or actuals or can you just tell me if that's

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 still a forecast amount or has that been finalized?

2 A. MS. MILOJEVIC: That was still a forecast amount
3 that was provided, and I believe still are forecasts.

4 Q. Okay. And will that -- will the pilot be completed in
5 2022 or 2021?

6 A. MS. MILOJEVIC: The plan is to complete the pilot
7 in 2022.

8 Q. Okay. Thank you, madam. Can you confirm the negative
9 amount in 2021 of 215,000 for contributions? We're
10 just a little confused about what's in that amount.
11 Was that only for the residential demand response
12 pilot?

13 There was another IR response that referenced Peak
14 Smart funding as well, so. I don't need to take you
15 there, but I just would like you to give us a breakdown
16 of that.

17 A. MS. MILOJEVIC: Yes. So to avoid confusion, the
18 Peak Smart program is the residential demand response
19 pilot. So the name that we use for that program is the
20 Peak Smart pilot, so they're one in the same. That
21 250,000 contributions are all for that same pilot.

22 Q. Okay. And nothing else?

23 A. MS. MILOJEVIC: Nothing else, that's correct.

24 Q. Thank you. Staying on IR Round 2, I would like to take
25 you to IR 31(d), and it's on pdf page 414. So

09:36

09:36

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 pdf page 414, and I'm looking at a question asked by
2 the Board in part (d) of that IR. So let me know when
3 you're there, Ms. Milojevic.

4 A. MS. MILOJEVIC: Yes, I'm there. Thank you.

5 Q. Okay. And the question that was asked was: (as read)

6 "Please elaborate on what was involved
7 in the coordination with the Yukon
8 government's DSM programs as part of
9 YEC's DSM planning as it's stated in the
10 quote 2 above. Please provide a
11 complete detailed response."

09:37

12 So if you go two pages further, on page 416, I'm looking
13 at line 12, and YEC stated: (as read)

14 "Accordingly, YEC has engaged with the
15 Yukon government to ensure the existing
16 demand side management programs offered
17 or planned by the energy branch are
18 considered in YEC's program design to
19 avoid duplication. This engagement to
20 date has confirmed government's DSM
21 program offerings as preliminary scoping
22 work for the demand side management
23 program design was initiated."

09:37

24 And then it goes on from there.

25 So I just wanted to get a really good idea because

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 the next paragraph references an advisory group and a
2 working group.

3 So can you explain what kind of work those groups
4 are doing?

5 A. MS. MILOJEVIC: Yes. And I think it's helpful
6 just to provide a bit of context on timing here.
7 Originally when the application would have been
8 drafted, we had forecasts expecting the OIC for DSM, as
9 we had recognized from the articling future climate
10 change strategy that that would be -- we understood
11 there would be an OIC on DSM. So we had forecast
12 including a planning for a DSM program development in
13 2020 and 2021.

09:38

14 The actual OIC, as I understand, did not come out
15 until I believe February of this year. And so we
16 didn't initiate work on that DSM program design
17 planning until this year.

18 So our contemplation of a collaboration with the
19 Yukon government per the direction of the OIC is really
20 in its early stages, as we are in our early stages of
21 planning DSM program design from a utility's
22 perspective.

09:39

23 So in the OIC I believe there's a statement
24 regarding ensuring there's not duplication of programs
25 that the Yukon government is already undertaking. So

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 one of the key elements of our early program design is
2 making sure we're working with the government of Yukon
3 to understand the programs they offer so that when we
4 design our own there isn't duplication in those
5 programs. So that's been really the key first step
6 this year in our work with them.

7 The advisory group that Ms. Sabo mentioned, the
8 DSM action group, or DSM AG as referenced in the IR, is
9 also in its early days. I believe there has been one,
10 perhaps two, meetings to discuss the plan for the
11 program design and the terms of reference for the
12 advisory group itself. So, again, we're in very early
13 days.

09:40

14 The purpose of this group would be to ensure that
15 the utility and the government are both understanding
16 what different DSM programs are being offered by each
17 entity to, again, avoid that duplication and to test if
18 there is any strategy that makes sense around program
19 collaboration. For example, if there's an opportunity
20 that makes sense and would be cost effective.

09:40

21 Q. So is there a plan for how often the DSM working group
22 will meet with the energy branch?

23 A. MS. MILOJEVIC: So the DSM working group is made
24 up of representatives from Yukon Energy, ATCO Electric
25 Yukon and the energy branch. The working group reports

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 up into the advisory group on energy demand and supply,
2 which, again, has representatives from both the
3 utilities and the energy branch.

4 The plan is currently, I believe, for the DSM
5 working group to meet on a quarterly basis and report
6 through AGEDS, although they would meet more frequently
7 if there was a development going on that required a bit
8 more work.

9 Q. Okay. Thank you, Ms. Milojevic. You're speaking a
10 little fast. We've got an expert court reporter, but
11 if you could just slow down a touch, it would be
12 appreciated.

09:41

13 A. MS. MILOJEVIC: Sorry about that. I will.
14 Thank you.

15 Q. No problem.

16 What will be the result from those working groups?
17 You know, will there be periodic updates or reporting
18 that will be generated out of those meetings and the
19 reporting-up structure? Just give me some context
20 around that.

09:41

21 A. MS. MILOJEVIC: The main result of the working
22 group will be to report to the AGEDS group. Again,
23 that collaborative forum with the utilities and the
24 Yukon government on any potential issues for discussion
25 around -- particularly if there are programs that the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 entities want to work together on.

2 There's no plan at this point in time for a formal
3 reporting out of the group. It is just the opportunity
4 for us to ensure we're implementing the programs
5 consistent with the OIC.

6 Q. Okay. And is it going to be ad hoc meetings or is
7 there a schedule every quarter?

8 A. MS. MILOJEVIC: Currently, it's scheduled every
9 quarter, but I believe the meetings are scheduled
10 quarter by quarter depending on the availability of the
11 participants.

09:42

12 Q. This might be a little bit of a leap, Ms. Milojevic,
13 but I'm just wondering, in terms of outputs, how is YEC
14 expecting to take kind of the learnings and the
15 collaboration from these DSM groups and meetings and
16 incorporate that into your DSM forecasting? You know,
17 we've got a new GRA coming up shortly here, so how do
18 those meetings impact your forecasting for DSM on a
19 go-forward basis?

20 A. MS. MILOJEVIC: When we look at how we design a
21 DSM program, there's sort of that overall envelope of
22 how many megawatts are you targeting and overall costs
23 envelope, but then there's more specific program
24 measures that are selected as part of your program. So
25 what programs to deliver this DSM are you going to

09:43

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 offer.

2 So I would say that, from Yukon Energy's
3 perspective, we'll present our draft program design
4 when it's completed to that working group for
5 discussion to identify if there are any opportunities
6 for collaboration, to identify if there were any
7 issues, for example, with existing programs that the
8 Yukon government is offering and, again, avoid that
9 duplication.

10 So, really, the purpose of the group, from our
11 perspective, with regards to our DSM program design is
12 as information sharing. So sharing information on
13 programs that we're undertaking, perhaps learning from
14 programs that the Yukon government has undertaken, to
15 ensure that we are delivering the best program with the
16 best value that we can.

17 A. MR. HALL: Ms. Sabo, maybe I could provide a
18 concrete and current example.

19 So through the meetings with that group, we were
20 informed, for example, that the Yukon government was
21 planning to start rolling out level 2 electric vehicle
22 chargers as part of their program.

23 Now, that may well be utility control of those
24 chargers to allow us to mitigate peak demand growth is
25 a key feature that we would be looking for in that

09:44

09:44

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 hardware selection.

2 So there's a really great example of where that
3 coordination is absolutely critical, so that if the
4 Yukon government is going to be providing subsidies or
5 customer rebates for those L2 chargers, that they're
6 capable of utility control, so that if we were to then
7 roll out a subsequent DSM program or -- focused on L2
8 chargers, that we could utilize that hardware that had
9 already been rolled out by Yukon government.

09:45

10 So there's a really great example of the two
11 entities coordinating and delivering together,
12 essentially, through different pieces of -- that we're
13 each responsible for, a solution to the customer that
14 allows them to charge at home, but not drive our peak
15 demand.

16 Q. And, of course, Mr. Hall, that would be one example
17 where you could potentially avoid duplication, right,
18 because the chargers were funded there --

19 A. MR. HALL: Right. Exactly --

20 Q. -- and then you would have to worry about the utility
21 side?

09:46

22 A. MR. HALL: Right. So our participation would
23 be in around the hardware and the utility -- the
24 dispatch control, which might require some small
25 amounts of additional hardware, but the point is you're

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 not duplicating this.

2 Q. Great. And are there any other examples of efforts to
3 avoid duplication in programming so far through your
4 discussions?

5 A. MS. MILOJEVIC: I think Mr. Hall has identified
6 the key one, Ms. Sabo. As I said, we are in early
7 days, so our plan would be to provide that working
8 group with our draft program design. In other words,
9 list the measures that we are looking at and
10 evaluating, and ensuring through that exercise as well
11 that we identify any other potential duplication.

09:46

12 Some of the work that's been going on this year, a
13 bit of an inventory of the government programs that
14 exist, as we understand them today, and confirming them
15 with the energy branch, just to make sure from the
16 outset, as we undertake our program design, we have a
17 view of what's already existing so we don't introduce
18 any duplications from the outset.

19 Q. Okay. Given that YEC has been allowed for DSM funding
20 in past rate applications prior to the last GRA, you
21 know, there's been a long history with DSM and program
22 studies in YEC's history, and I understand the last
23 study that you did in this -- contemplated in this GRA
24 was completed in 2019. Is that right?

09:47

25 A. MS. MILOJEVIC: Yes, that's correct. I believe

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 the application refers to that work that was completed,
2 it would have been ongoing during the last 2017-2018
3 GRA proceeding.

4 Q. And I guess it begs the question, can you summarize for
5 me on why we've got more -- an application with a
6 request for more funding to study DSM programs, given
7 that you've done studies in the past?

8 A. MS. MILOJEVIC: I believe those studies that
9 you're referencing that were completed in 2019 were
10 done before the OIC on DSM was received.

09:48

11 And at the time there was also, I believe, a
12 different understanding of the delivery of DSM in that
13 it would need to be fully -- programs would be
14 delivered, if I understand, subject to check,
15 essentially, jointly by Yukon Energy and Government of
16 Yukon together, and that was the basis of the program
17 design that had been conducted previously.

18 So the program design that we're undertaking now
19 is an update of the previous work. So, you know, it
20 will build on the work that's already been done, but
21 with a focus of utility delivering DSM programs, again,
22 checking for duplication with the government. So it is
23 about the context changing around, you know, what DSM
24 programs we are delivering.

09:48

25 And I think particularly important to note that

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 this focus on capacity savings. So when you think
2 about our ten-year renewable electricity plan that
3 we've mentioned several times over the last day, that
4 plan counts on 7 megawatts of demand side reduction in
5 dependable capacity requirements by 2030. So we have a
6 large focus on delivering peak demand savings.

7 I mean, essentially, when you think about it, it's
8 a supply alternative, I think Mr. Hall referred to it
9 yesterday as, which it means, if you didn't deliver the
10 7 megawatts of demand savings, you would have to supply
11 that load through another means. It's the equivalent
12 of, I believe, about four diesel rental generators.

13 So, again, that focus on capacity, which I think
14 had been previously identified in the program design,
15 but, certainly, it's even a higher priority given the
16 record peak we've experienced given the really large
17 load growth we've seen.

18 So it's just about ensuring that our program
19 design is up to date delivering the best value for the
20 programs to achieve our peak-saving targets.

21 Q. Okay. And, Ms. Milojevic, there's also been other
22 historical studies rather than just the one in '19. I
23 mean, we've had YEC do studies prior to the 2017-2018
24 GRA. Would your answer be the same, that, you know,
25 the landscape is changing?

09:49

09:50

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 I'm just trying to think, like, is this process
2 cumulative or are these studies that you've done
3 historically targeting different things?

4 A. MS. MILOJEVIC: I think it's a mix of both, and
5 one thing I think that's really important with DSM is
6 there is this constant evolution and update because of
7 technology.

8 So a lot of measures, when you're looking at
9 demand side management, are taking what customers have
10 in their home, let's say, and deploying a technology.
11 That could be a utility control device, like, in terms
12 of the electric vehicle charging stations that Mr. Hall
13 had mentioned, or even the Peak Smart pilot devices I
14 had mentioned with regards to controlling heat, for
15 example, but it could also be -- the simple example
16 would be light bulbs, and once you've had turnover on a
17 certain technology of light bulbs, over time, the next
18 technology that would get you savings is different.

09:51

19 And so the availability and the market penetration
20 of different technologies is a big factor for the
21 programs of DSM and their effectiveness. So that need
22 to refresh and keep plans updated and design updated is
23 really key for DSM in particular.

09:51

24 Q. So, in your opinion, the costs you're asking here for
25 DSM project development wouldn't have been duplicative

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 of things you've done in the past?

2 A. MS. MILOJEVIC: I do not believe so, no.

3 Q. And --

4 A. MR. HALL: Sorry, Ms. Sabo. I think the
5 other point to note, which builds on Ms. Milojevic's
6 point is that the focus on electrification within Our
7 Clean Future, and the significant amount of money that
8 the Yukon government is investing in encouraging
9 Yukoners to electrify, really changes the landscape
10 quite a lot in terms of what -- how DSM fits.

09:52

11 So, you know, there was a real need to refresh the
12 plan to take that into account, and that focus on
13 electrification wouldn't even have been around in those
14 prior -- you know, as context, in those prior studies
15 that were done.

16 Q. Thank you, Mr. Hall.

17 Has YEC done any analysis on whether its past
18 studies have resulted in reduced demand and
19 corresponding reduced capacity on the Yukon Integrated
20 System?

09:53

21 A. MS. MILOJEVIC: Subject to check, Ms. Sabo, I
22 believe in the earlier days of DSM, and this was before
23 my time, but from my recollection, there would have
24 been verification and evaluation reports done, again, I
25 believe on an annual basis.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 I believe those were halted following the Board's
2 order to discontinue demand side management
3 programming, so I don't know that we have recent data
4 since those had been discontinued, but that would be
5 part of an ongoing DSM program is your evaluation and
6 verification typically on an annual basis in the
7 industry.

8 A. MR. MOLLARD: And, Ms. Sabo, not my area of
9 expertise by any means, but I was here, I think -- I
10 believe those early programs were more focused on
11 energy and saving kilowatt hours, they were not focused
12 on peak and megawatts.

09:53

13 Q. Thank you for that addition, Mr. Mollard.

14 Ms. Milojevic, so you had just mentioned, you
15 know, verification reporting. So can you give me an
16 idea, yeah, what is this going to look like in terms
17 of, if we're developing new DSM programs in the future,
18 you know, the Board is going to have to approve costs
19 with that and, you know, whatever -- do a prudency
20 review, so you said verification reports would be done.

09:54

21 What other actions is YEC going to take to kind of
22 report and record on efficiencies gained and costs, the
23 cost-benefit analysis?

24 A. MS. MILOJEVIC: That's actually a big part of what
25 our program design work is today is defining exactly

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 that, Ms. Sabo, what measures will we take, how will we
2 approve the cost effectiveness of those.

3 And so, in DSM, there's a term "cost effectiveness
4 test" and there's typically four different tests that
5 are used to look at the relative cost benefit of
6 different DSM measures on a comparative basis.

7 So that's part of our -- what we're developing
8 now, is our strategy around how do we select programs,
9 as in how do we pick the programs with the best cost
10 benefit ratio, for lack of a better term, depending on
11 what our desired outcome is, in our case, that focus on
12 capacity reduction where possible, as well as how we
13 will report on the effectiveness of those measures.

09:55

14 As I said, in this regard, there's quite a few
15 industry standards around evaluation and verification.
16 Typically, a third party comes in, reviews the program
17 that you've done, the measures that you've done, and
18 there are standard calculations they have and audits,
19 essentially, that they do to determine what your
20 delivered savings would have been.

09:55

21 So that's all part of our program design is to lay
22 out the plan. How are we going to select measures, how
23 are we going to justify their economics of those
24 compared to other measures or supply side options, and
25 how do we select the programs that go in, and then

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 verify and report on those.

2 Q. I think, you know, as you're well aware, I don't think
3 this is going to be groundbreaking, but the trick is
4 to -- with a utility or an integrated system, how do
5 you measure the actual reduction in demand and, you
6 know, is it achieving the effect you want it to
7 achieve. So those are going to be part of that
8 discussion.

9 A. MS. MILOJEVIC: Yes. And certainly for different
10 types of measures there's different clarity on what
11 those savings actually are. So for something like
12 utility control, if I take our Peak Smart pilot for
13 example, where it's a measured device, we can actually
14 calculate -- not just calculate, measure, metre exactly
15 what the demand reduction was during an event.

09:56

16 So for devices like that or programs that involve
17 that direct utility control and visibility, there's, of
18 course, going to be a very clear measure of the
19 savings.

20 For other types of DSM program measures that are
21 typical, I used an example for light bulbs, let's say,
22 there are industry standard measures that are used to
23 calculate what those are. I'm not an expert on what
24 the factors that go into those are, but there are
25 third-party experts that many other jurisdictions use

09:57

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 that come in and evaluate a program and use that as a
2 basis. So the actions that you've taken and how the
3 uptake has been to evaluate what the estimated savings
4 are.

5 So I think, you know, in general, it's going to be
6 for some types of measures, you're only ever going to
7 be able to estimate the savings, but, for others,
8 you'll have direct visibility into what those savings
9 were.

10 Q. Okay. So you would almost have to do a comparative
11 analysis on some of the indirect benefits from those
12 programs based on other jurisdictions or utilities?

09:58

13 A. MS. MILOJEVIC: Yeah. And, again, that's
14 typically where that evaluation and verification comes
15 in. There are standard measures for if you're doing a
16 program measure of a certain type, how they evaluate
17 what your effective savings were. That's a standard in
18 the industry that's used.

19 Q. Okay. And, Mr. Hall, do you have anything to add? You
20 know, this is a tough issue on how, you know, the
21 Board's going to have to do a post review on whether
22 the cost of these programs are reasonable and if
23 they're making YEC's capacity demand decrease or
24 levelized.

09:58

25 A. MR. HALL: No. I think, you know, we're

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 going to have hard, crunchy data on the measures that
2 are utility controlled. So we'll know exactly how many
3 hot water tanks are out there that have a controller
4 on, and we'll know exactly how many peaks were reduced
5 and by how much. So that data will be, you know,
6 100 percent verifiable.

7 In terms of, you know, these other
8 cost-effectiveness tests, I think my only comment would
9 be, you know, other utilities around the world are
10 quite a bit ahead of us in this area. And so this is
11 an industry and an area within utility -- the utility
12 business that is quite mature. And I think, you know,
13 the Board can have quite a bit of confidence that if
14 Yukon Energy uses these industry standard
15 cost-effectiveness tests, that they're well tested.

16 I wouldn't -- you know, I think you can have
17 confidence that we're not breaking new ground here;
18 we're using what other utilities have been using for
19 many years.

20 Q. Okay.

21 MS. SABO: Mr. Chairman, I just have a few
22 more questions. I see we're close to break time. I
23 just have a few more before I'm at a reasonable
24 stopping place. So, absent an objection, I'll just
25 continue with those.

09:59

09:59

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 THE CHAIR: Yes, please. Let's get you
2 wrapped up, and then we can take the break.

3 MS. SABO: Thank you.

4 Q. Just one more thing that arises out of the OIC on this.
5 If you can turn to the OIC and -- I've just got to find
6 it myself here. In Section 10.1, which is the
7 beginning of the demand side management section -- and
8 I'll read that to you. It says: (as read)

9 "In this section, "demand side
10 management program" means a measure,
11 action, or program intended to promote
12 customer use of electricity that
13 optimizes economy or efficiency of
14 electricity generation or a transmission
15 by a public utility, including through
16 the promotion of customer use of
17 electricity that is (a) more efficient
18 or (b) better aligned -- a better
19 aligned electricity supply and demand."

20 So, you know, again, we talked quite a bit about
21 efficiency, but can you give me some more context on
22 how, you know, we're going to have to measure whether
23 your DSM program better aligns electricity supply and
24 demand. I'm not even sure I know what that means. Like
25 I say, maybe it's levelization, but I would like to hear

10:00

10:01

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 your views.

2 A. MS. MILOJEVIC: It's a good question, Ms. Sabo.
3 So I believe when we look at aligning electricity
4 supply and demand, I think about it as we have an
5 excess of renewable generation available in the summer,
6 and, in the winter, we have less than we need. So, of
7 course, that's why we use thermal generation.

8 And so there's, I think, kind of two pieces when
9 we talk about aligning supply and demand, and that is,
10 again, there's the seasonal shift, which I think is
11 unlikely you get from a demand side management program,
12 but it's about that peak shift really.

13 And so when we talk about aligning supply and
14 demand, I look at that as that capacity focus. So
15 during a peak -- you know, I'll take the 2020 peak, for
16 example, I think it was around 104 megawatts. If we
17 had customers heating their homes two hours prior to
18 that peak or four hours prior to that peak and then not
19 running those heaters during the peak, the total amount
20 of megawatts we would have had to produce at one time
21 would go down. And that means you need less thermal
22 online. Or eventually if you have enough programs, it
23 means that your forecast peak load is actually lower,
24 so you need to have less rental generators or less N-1
25 capacity.

10:02

10:02

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 Again, in the context of our 10-year renewable
2 plan, I spoke to that 7 megawatts. So that
3 7 megawatts, in my view, is aligning the electricity
4 supply with our demand. In other words, we're saying
5 that for 7 megawatts worth of what would need to be
6 supply, instead we're coming at it from the load side
7 and we're shifting or reducing that load to, again,
8 better account for the fact that we end up having to
9 rely on this thermal generation to serve peak.

10 Q. Thank you. I'm going to move you to consolidated IR
11 Round 1, and I'm looking at IR 46 at pdf page 1484, so
12 1484.

10:03

13 MR. LANDRY: Sorry, Ms. Sabo, I missed the
14 reference to the IR. What number IR was it?

15 MS. SABO: It's 46, Mr. Landry, and I'm
16 looking at part (e), which is on page 1484.

17 MR. LANDRY: And it's, sorry, the first
18 consolidated or the second?

19 MS. SABO: The first consolidated.

20 MR. LANDRY: Thank you, sorry.

10:04

21 MS. SABO: Thank you.

22 Q. And in that IR, the Board said: (as read)

23 "In addition, please provide YEC's view
24 on how the two options might differently
25 affect low-income households."

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 And we didn't see in the response -- if you want to take
2 some time to peruse it -- where that question was
3 answered. So we're wondering if you could comment on
4 that now.

5 A. MR. MOLLARD: Sorry, Ms. Sabo, just to make sure
6 I get that clear, can you repeat the question, please?

7 Q. So in IR part (e), we basically asked how the quotation
8 in the IR and two options that were presented might
9 differently affect low-income households.

10 So what I'm trying to get to, Mr. Mollard, is how
11 is the DSM programming going to be targeted or not
12 targeted to low-income households who may not have the
13 same access or resourcing?

14 A. MR. MOLLARD: Yeah, a good question. This has
15 come up in the past in prior proceedings.

16 Important to note, in the Yukon, most of the
17 customers are not ours. The retail customers are --
18 the vast majority of, like 80 percent, are
19 ATCO Electric Yukon customers. And the other aspect of
20 this is we don't know who's low income. We have no
21 data on household income other than what's publicly
22 available from Stats Can, so we don't really have a
23 method where we can identify who might be low income in
24 our customer base. So it kind of prevents us from
25 targeting that group.

10:05

10:05

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 A. MS. MILOJEVIC: If I could add --

2 Q. Oh, go ahead.

3 A. MS. MILOJEVIC: If I could just add to that,
4 Ms. Sabo.

5 At this point in time, low-income household
6 particulars are not part of any of the measures --
7 metrics we would be using to judge which measures go in
8 our program design. This may be an area where there
9 would be an opportunity, again in that meeting of Yukon
10 Government and Yukon Energy, to talk about who's doing
11 what, that programs that might be targeting this would
12 be those coming from Yukon Government rather than from
13 the utility as our target would be cost-effective DSM
14 in order as a supply alternative to benefit ratepayers.

10:06

15 Q. And you would have that same challenge for residential
16 customers in general, right, because, again,
17 ATCO Electric Yukon has a larger amount of distribution
18 customers? Yes?

19 A. MR. HALL: Well, I just want to make the
20 point, Ms. Sabo, that we can target customers, even if
21 they're ATCO's, but we can't determine, to
22 Mr. Mollard's point, whether they're low income or high
23 income. And I'm not sure that ATCO could even do that,
24 because you would have to have access to their income
25 tax returns, which no one has. So difficult to, you

10:06

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 know, do that, to our knowledge.

2 Q. I guess, Mr. Hall, you could try communications and
3 public relations and those types of things. You know,
4 I don't know if there's any other options you can think
5 of, but any insight you have would be great.

6 A. MR. HALL: I mean, I would speculate that in
7 the early years if we're trying to promote these
8 programs to the public, you know, we just want to make
9 sure that there's uptake first and foremost, you know,
10 from any customer. And, you know, maybe through time
11 we can get more sophisticated in terms of targeting
12 different socioeconomic groups, but I think our primary
13 motivation would be just to ensure that there's
14 penetration of these programs and uptake from the
15 public.

10:07

16 Q. Right. And certainly you have all sorts of customers;
17 right? You have the commercial and industrials and
18 others; right? So, I mean, all of those will have to
19 be factored in, yes? Or no?

20 A. MS. MILOJEVIC: Yes, that's right.

10:08

21 A. MR. HALL: Yes.

22 A. MS. MILOJEVIC: Yes, that's right.

23 Q. Okay.

24 MS. SABO: Mr. Chairman, that's a good
25 stopping break for me. I don't expect to have too much

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 more after the break.

2 So, Mr. Rondeau, if you can stay at the ready, I
3 maybe have 15 or 20 minutes after the break.

4 THE CHAIR: Okay. Thank you, Ms. Sabo.

5 So according to this computer, it's 10:08. We had
6 a scheduled 20-minute break, so let's reconvene at --
7 in 20 minutes. 10:28. Thank you.

8 (ADJOURNMENT)

9 THE CHAIR: Ms. Sabo, are you ready to carry
10 on?

11 MS. SABO: Yes, I am. Thank you,
12 Mr. Chairman.

13 Q. Panel, I have some more precise questions just for
14 clarification on the LED streetlight retrofit program.
15 And if you could turn to Round 1, the revised IRs, so
16 not the consolidated, and the Board YEC IR 62. And it
17 starts on pdf page 184 and continues on on 185. And
18 just let me know when you're there.

19 And I'm looking at part (a) and (b).

20 A. MR. MOLLARD: Okay, we're there.

21 Q. Yeah. Thank you, Mr. Mollard. Starting at line 5 of
22 part (a) and (b), it says: (as read)

23 "For clarity, the transfer to rate base
24 in 2018 of .273 million was not all
25 related to the streetlight replacement

10:30

10:31

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 program. The cost breakdown further is
2 as follows."

3 And it says: (as read)

4 "In charge delivery program of 180,000
5 and streetlight change outages of
6 93,000, for a total of 273,000."

7 Then the response later goes on to say: (as read)

8 "In charge program delivery is the cost
9 to deliver the programs approved by the
10 YUB in order 2014-06. As a historical
11 DSM cost, this amount will be written
12 off the accounts of YEC, and ratepayers
13 will bear no burden."

14 So, first of all, can you explain the statement "as a
15 historical cost, this amount will be written off the
16 accounts of YEC, and ratepayers will bear no burden."

17 A. MR. MOLLARD: Yes.

18 Q. We were a little confused about that, given the table.

19 A. MR. MOLLARD: Absolutely, understood. So just
20 the backstory.

21 So the Board will recall that there was a legal
22 proceeding around DSM costs coming out of the last GRA
23 in which we were asking to be paid certain costs to do
24 with programs that were executed beyond the Board's
25 deadline of 2015.

10:31

10:32

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 We were aware that the government was planning to
2 issue an OIC to include DSM in future programming. At
3 that time -- in those early days we weren't sure if
4 that historical cost was going to be covered by that
5 OIC, so we retained our appeal with the courts.

6 Subsequently, we found out that the OIC did not
7 cover historical costs and we were unsuccessful in our
8 appeal.

9 So, together with those two issues that the OIC
10 clearly establishes a date before which we are not
11 covered for our costs, we lost our appeal. That
12 180,000 was part of the historical cost appeal, and so
13 having been unsuccessful in the appeal, we wrote that
14 cost off.

10:33

15 Q. Thank you. That will be to the account of the parent
16 or the shareholders, we would think?

17 A. MR. MOLLARD: That goes to equity; the
18 shareholder eats it.

19 Q. Thank you. In response part (c) on page 185, at lines
20 26 and 27, it states: (as read)

10:34

21 "Costs were added in 2020 for the
22 environmental disposal of the old HPS
23 streetlight heads for .008 million."

24 We're just wondering, what was the disposal process of
25 the old HPS streetlights that were either at the end of

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 life or were converted?

2 A. MR. MOLLARD: Ms. Sabo, we're at a bit of a
3 loss. I'm not sure exactly what that step was, so I
4 can undertake to get you an explanation of what
5 "environmental disposal" means.

6 Q. Thank you. And just any context you can provide around
7 that in your undertaking would be helpful, Mr. Mollard.
8 Thank you.

9 UNDERTAKING - REFERRING TO PART (C) ON
10 PAGE 185, LINES 26 AND 27 OF THE
11 ROUND 1 REVISED IRS AND THE BOARD YEC
12 IR 62, TO PROVIDE AN EXPLANATION OF
13 WHAT "ENVIRONMENTAL DISPOSAL" MEANS

10:34

14 Q. MS. SABO: And on page 186, at lines 1 and 2,
15 YEC confirms that there are no streetlight retrofit
16 costs being added to rate base for 2019 and 2021. We
17 were wondering if that was actually a typo, because in
18 those two years, there's a gap, 2019 and 2021. So we
19 wanted to confirm that there were no streetlight
20 retrofitting costs that were added to rate base for the
21 years 2019 and 2020, and of course, you know, you
22 wouldn't have rate base yet -- well, you might for 2021
23 midyear.

10:35

24 A. MR. MOLLARD: That will be another undertaking,
25 Ms. Sabo. We'll go away and confirm, in fact, there

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 were no additions to the 2020 year as well.

2 Q. Okay. I'll just confirm for the court reporter because
3 my question was a little lengthy, that Mr. Mollard is
4 going to confirm that there are no streetlight
5 retrofitting costs added to rate base for the years of
6 2019, 2020, and 2021.

7 And, Mr. Mollard, as part of that undertaking, if
8 there were any additions to rate base, can you provide
9 the number for each year?

10 A. MR. MOLLARD: Yeah, we will do that, yeah.

10:36

11 Q. Thank you, sir.

12 **UNDERTAKING - TO CONFIRM THAT THERE ARE**
13 **NO STREETLIGHT RETROFITTING COSTS ADDED**
14 **TO RATE BASE FOR THE YEARS OF 2019,**
15 **2020, AND 2021; IF THERE WERE ANY**
16 **ADDITIONS TO RATE BASE, TO PROVIDE THE**
17 **NUMBER FOR EACH YEAR**

18 Q. MS. SABO: I just have a few more questions.
19 I'm going to circle back to our discussion this
20 morning, Mr. Mollard, on the water reserve fund.

10:36

21 So I believe you stated this morning that the low
22 water reserve fund has been consistent in the past, but
23 would you agree that in Board Order 2018-10 the Board
24 determined that YEC is at risk for generation costs
25 above forecast?

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 **A. MR. MOLLARD:** Can you repeat that question one
2 more time? I just want to make sure I got it framed
3 right in my head.

4 **Q.** No problem. Would you agree that in Board Order
5 2018-10 the Board determined that YEC is at risk for
6 generation costs or load above forecast?

7 **A. MR. MOLLARD:** I would agree that that was what
8 was in the order, yes.

9 **Q.** I think what I understood from what you said this
10 morning, that's now changed; right? That the OIC is
11 more consistent with Board orders prior to 2018-10?

12 **A. MR. MOLLARD:** Yes, that was my statement, yes.

13 **Q.** Okay, thank you. You also indicated earlier this
14 morning that, in the past, the low water reserve fund
15 is covered, although either above or below forecast.
16 Is that right?

17 **A. MR. MOLLARD:** Sorry, I'm not sure I understand
18 that statement. Can you repeat?

19 **Q.** That in the past, the low water reserve has covered all
20 load or all risk of load, either above or below the
21 forecast that you've set out.

22 **A. MR. MOLLARD:** I think it's important -- it's not
23 about the load, it's about water. So we are not
24 protected for all load variations. I think I said that
25 this morning.

10:37

10:38

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 Q. Yes.

2 A. MR. MOLLARD: It's about -- it's about
3 protection for the load impact -- for the generation
4 impacts from water supply. That's the important
5 distinction.

6 Q. Right. And so could you maybe provide me a specific
7 reference from a past decision prior to Board
8 Order 2018-10 that confirms that for us, Mr. Mollard?
9 We think it might be from a very early Board order such
10 as 1991 or 1992, but can you kind of confirm the
11 history of that for us, just so we're not missing --

10:39

12 A. MR. MOLLARD: Well, I think that -- yeah. I
13 think if -- I mean -- I don't have a document reference
14 for this, but it is on the record.

15 Going back to when this was created in 1991, it
16 actually wasn't -- didn't have anything to do with the
17 drought. It actually was a situation where the utility
18 had more water than it needed and the Board recognized
19 that that was creating volatility in rates.

20 So, again, it wasn't about the load; it was about
21 what is the cost impact doing to rates because of this
22 variability in hydro supply. So that was where it
23 started, and it was always about how much water we had,
24 not how much load we had.

10:39

25 Does that help as a clarification?

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 Q. That does, Mr. Mollard. So if you could provide me a
2 reference. I mean, you don't have to go boil the ocean
3 and do everything up to date, but if you could just
4 provide that first reference where that issue of
5 variability was addressed by the Board because of the
6 variability in water conditions.

7 A. MR. MOLLARD: I will do that, yes.

8 Q. Thank you.

9 UNDERTAKING - TO PROVIDE THE FIRST
10 REFERENCE FROM A PAST DECISION PRIOR TO
11 BOARD ORDER 2018-10 WHERE THE ISSUE OF
12 VARIABILITY WAS ADDRESSED BY THE BOARD
13 BECAUSE OF THE VARIABILITY IN WATER
14 CONDITIONS

10:38

15 MS. SABO: Panel, I will not be at the
16 hearing tomorrow, so I want to take this opportunity to
17 thank all of you for attending and answering the Board
18 questions. It helps us sort out the issues and clarify
19 the record. So thank you very much for participating,
20 and I hope you enjoy the rest of the hearing.

10:40

21 Mr. Landry.

22 MR. LANDRY: Thank you, Ms. Sabo. I just
23 wanted to mention one thing. It turns out, as I
24 thought -- I just couldn't find the reference -- that
25 the OIC is actually on the record. It's in -- I

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Sabo

1 understand -- I couldn't find the 11 in the website,
2 but I'm told it's Exhibit B11, Appendix 1.1. So I
3 think that just covers off everything we were talking
4 about, is all I'm saying.

5 MS. SABO: Thank you, Mr. Landry. We always
6 love a good hyperlink in argument if you get really
7 overzealous. Thank you.

8 MR. LANDRY: The only other thing, Ms. Sabo. I
9 assume Ms. Graham still has questions beyond that, just
10 so everybody is aware.

10:41

11 MS. SABO: Yes, certainly. I think that's a
12 good point of order, Mr. Landry. We're going to switch
13 to Mr. Rondeau. When Mr. Rondeau is done, Ms. Graham
14 will ask questions on capital, O&M, and depreciation.
15 So you will hear more from her after Mr. Rondeau
16 finishes. And, of course, after Ms. Graham is done,
17 for parties who don't regularly participate, the Board
18 will also have questions for this panel before moving
19 to intervener panels.

20 So thank you for those items, Mr. Landry.

10:41

21 THE CHAIR: Okay. Mr. Rondeau, are you
22 available?

23 MR. RONDEAU: Yes, good day. I'm ready to go.

24 THE CHAIR: Okay. Mr. Rondeau, just as a
25 reminder, apropos the opening remarks yesterday, I urge

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 you to try to be very efficient with your time because
2 part of the courtesies that we expect are that people
3 come prepared, which includes being technologically
4 prepared. And so if you could -- given that we've lost
5 half an hour today to technical difficulties on your
6 end, if you could please be -- focus on being very
7 efficient with your time.

8 You wouldn't want to be faced with the irony of
9 added costs for the hearing going against the rates of
10 the people that the UCG represents. So if you could
11 please make your time very focused and efficient, it
12 will get us through the day.

10:43

13 MR. RONDEAU: I thought I was doing my best, but
14 I will go forward with that.

15 THE CHAIR: Okay. Proceed.

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

17 Q. Okay. When I finished off we were talking about
18 procurement and contracting procedures. My
19 understanding was that you said that the YEC board of
20 directors oversee any large contracts. Is that
21 correct?

10:43

22 A. MR. MOLLARD: The statement we said was that
23 the -- under our corporate signing authorities, the
24 Board must sign off any document over a million
25 dollars.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Q. How can YEC ensure us the integrity and the adequacy of
2 internal control, the standard of your codes of
3 conduct, and ethics to satisfy the ratepayers and the
4 Board? In other words, do you have a code of business
5 conduct and ethics?

6 A. MR. HALL: Yes, we do.

7 Q. Has that ever been provided as a document for
8 interveners and the Board?

9 A. MR. MOLLARD: To my knowledge, it has not been
10 requested in the last 20 years I've been here.

10:44

11 Q. Could I request that as an undertaking now, please?

12 A. MR. MOLLARD: Yes.

13 UNDERTAKING - TO PROVIDE YEC'S CODE OF
14 BUSINESS CONDUCT AND ETHICS

15 Q. MR. RONDEAU: Now, I realized I asked this
16 particular -- sorry. I asked this particular question
17 in the last rate hearing, but I want to go through it
18 again.

19 In the light of all the corruptions that have
20 taken place in the public utilities in other Canadian
21 jurisdictions and the USA, some examples, BC Hydro,
22 clean energy initiatives and procurement and
23 proceedings -- procedures; BC Rail, sole sourcing;
24 Ontario Hydro, renewable energy purchase agreements;
25 SNC-Lavalin, influence and rewarding contracts. One

10:45

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 example in the States, First Energy in Ohio,
2 influencing and rewarding contracts.

3 Also, Transparency International states:
4 (as read)

5 "No country or area is free from this
6 type of corruption."

7 Also noting the escalating costs of consulting and
8 contracting in the last number of years for
9 Yukon Energy, Mr. Hall and Mr. Mollard, can you tell us
10 whether you believe YEC is immune from this type of
11 corruption?

10:46

12 MR. LANDRY: Mr. Chair, I put my hand up there.
13 I apologize.

14 THE CHAIR: Yes, I see that. Go ahead,
15 Mr. Landry.

16 MR. LANDRY: A very technical level preamble
17 like that, similar to what we discussed yesterday, is
18 not helpful for the Board, ignoring for the moment, as
19 you well know, the legal issues that arises when
20 effectively an assumption is put into a question that's
21 not proven.

10:46

22 I have no difficulty Mr. Rondeau asking a
23 question, but not with all the preamble for the various
24 lists of whatever it was that he discussed in the
25 question -- I don't think it's helpful. I think

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 it's -- and not appropriate.

2 So I think if Mr. Rondeau could rephrase his
3 question simply on YEC without a reference to something
4 else that's not on the record, that would be the more
5 appropriate way to go.

6 THE CHAIR: Yes, that point is well taken.

7 Mr. Rondeau, we spoke to Mr. Yee about this kind
8 of questioning yesterday with a broad preamble that
9 touches on all sorts of alleged matters that have no
10 relevance in terms of what we're dealing with, that's
11 what I was speaking about, and trying to be focused and
12 efficient with your time, if you could please just
13 restrict yourself to clear questions of the panel, and
14 that will get us through this a lot more quickly.

15 Q. MR. RONDEAU: Mr. Hall or Mr. Mollard, do you
16 believe YEC -- YEC is immune from corruption?

17 A. MR. HALL: Mr. Rondeau, I can say that every
18 time our auditors come in and do their audit, we are
19 asked very specific questions about what management's
20 view is on the risk of fraud in the business, and I
21 consistently answer that we have, in my view, the
22 appropriate controls in place.

23 You know, my observation personally is that, you
24 know, our high degree of integrity within the company.
25 So can I say definitively that there's nothing out

10:47

10:48

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 there, well, that's very difficult to say, but my
2 observation is we are not subject to, you know,
3 material issues of the sort that you've referred to.

4 A. MR. MOLLARD: And if I could add on to that,
5 Mr. Chair, we are subject to audit by the Auditor
6 General of Canada. They are required by auditing
7 standards to provide an assessment of our internal
8 control structure. We have not had material internal
9 control breakdowns of the type that Mr. Rondeau is
10 referring to. So I offer that as evidence that we do
11 not have that particular issue.

10:49

12 Q. So you've never witnessed any prior kickbacks, gifting,
13 or quid pro quo in your organization?

14 A. MR. MOLLARD: I'm not -- I'm not sure I
15 understand exactly all those terms or what your
16 referring to, but I have not personally seen any
17 corrupt practices at YEC in my time.

18 Q. Okay. Thank you. Moving on to forecasting models.
19 Does YEC still rely on the YEC SIM model for your
20 long-range forecasting?

10:50

21 A. MS. MILOJEVIC: Yes, we do.

22 Q. Is the YEC term sheet still used for long-range
23 forecasting?

24 A. MR. MOLLARD: The term sheet that is subject to
25 update, yes. It's periodically updated. I think we've

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 put in the application the updates we've done. So
2 it's, yes, with updates as required.

3 Q. Has Yukon Energy done any short-range forecasting for
4 this test year?

5 A. MR. MOLLARD: Yes.

6 Q. How are the results? Are they similar to the long
7 range?

8 A. MR. MOLLARD: Mr. Rondeau, Table 2.2 in the
9 application provides both our long-term and short-term
10 generation forecasts. So the models you referred to
11 would have been used to generate those numbers that are
12 in the application.

10:51

13 Q. Table 2.2, have these been updated, seeing that we're
14 three-quarters of the year through?

15 A. MR. MOLLARD: No, it has not been updated.

16 Q. Not even the short-term?

17 A. MR. MOLLARD: No.

18 Q. Who is now the planning leader before the Board -- the
19 Yukon Energy?

20 A. MR. HALL: It's Ms. Milojevic. Planning is
21 conducted by her department.

10:52

22 Q. So, Ms. Milojevic, you do planning as well as DSM?

23 A. MS. MILOJEVIC: Yes. DSM is one of the components
24 of planning. So we do both supply side and demand side
25 planning, as well as projects in their early stages in

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 the environmental program as well.

2 Q. Thank you. How many engineers are on the YEC
3 management team?

4 A. MR. HALL: There's three.

5 Q. Any of these electrical engineers?

6 A. MR. HALL: Yes.

7 Q. How many?

8 THE COURT REPORTER: I'm sorry, who was answering
9 those?

10 A. MR. HALL: Mr. Hall. So one electrical
11 engineer, Mr. Rondeau.

10:53

12 Q. How many hydrologists are on your management team?

13 A. MR. HALL: None.

14 Q. And, Ms. Milojevic, how many personnel are under your
15 planning team?

16 A. MS. MILOJEVIC: Currently, I have four direct
17 reports. Or, sorry, my team is made up of four, three
18 direct reports and one reporting in.

19 Q. Thank you. I'll move on to the mines -- and I only
20 have one quick question right now, but I will come back
21 to that later -- but my question about the mines is,
22 does YEC know how much diesel and LNG the mines
23 actually need to operate their facility?

10:54

24 A. MR. MOLLARD: No.

25 Q. First Nations compensation and mediation, do you have a

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 policy for this new program?

2 A. MR. HALL: Mr. Rondeau, can you please
3 clarify what you mean by "First --" I didn't know the
4 term you referred to. I'm not sure it's used in our
5 application.

6 Q. First Nations compensation and mediation, do you have a
7 policy of how they will be compensated for various
8 projects?

9 A. MR. HALL: We have -- okay. So, to step back
10 a second, if you talk about the issue of compensation,
11 there's a regulatory component to that where, for
12 example, in a -- particularly related to proceedings
13 before the Water Board, there's a methodology whereby
14 compensation can be paid for impacts.

15 More broadly than that, you know, for many years
16 Yukon Energy has entered into project agreements with
17 First Nations on whose traditional territory projects
18 are developed, and those project agreements include --
19 have included historically investment opportunities and
20 there's numerous examples of those.

21 And, more recently -- and benefits such as
22 training, employment, scholarship, et cetera -- and,
23 more recently, we've expanded that out to include a
24 First Nation procurement policy, which creates
25 contracting opportunities for First Nation-owned

10:55

10:55

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 businesses related to large projects.

2 So we have a policy in that regard, First Nation
3 procurement policy, which was developed a couple of
4 years ago. We're in the process of updating that, but
5 we have had a number of recent large projects where
6 we've implemented that policy.

7 Q. I had a lot of questions around the Mayo B, what took
8 place there, but I'm going to skip that because I'm
9 going to get my hands slapped again for being out of
10 order, or whatever you call it.

10:57

11 I will ask one simple question: How do you show
12 transparency on any compensation or mediation to
13 First Nations? Where is the transparency on this?

14 A. MR. HALL: Well, there's transparency in
15 terms of any project agreement that is negotiated. It
16 is taken to our board for approval. So we have their
17 eyes on those deals.

18 Beyond that, there's no reporting. I mean, often
19 we work with the Yukon government on elements of these
20 projects, so there's disclosure through those
21 conversations up to our parent and, for example,
22 Department of Aboriginal Relations within the Yukon
23 government.

10:57

24 Q. These costs are always added on to the revenue
25 requirement, am I right, of the capital project?

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 A. MR. HALL: Right. So they would be part of
2 the project costs.

3 Q. And each one of those are documented clearly on each
4 project?

5 A. MR. HALL: I believe, for example, the
6 Mayo-McQuesten project, they report it as an individual
7 line item in the application or the IR responses on
8 that project, for example.

9 Q. I have a few preliminary ones on demand side
10 management. I know I will come back to that later, but
11 I'll ask these first.

12 Since the government OIC that took place
13 November 1st, 2020, can Yukon Energy assure the Board
14 that this application does not have any DSM costs prior
15 to this date?

16 A. MR. MOLLARD: So, Mr. Chair, important to note
17 that the specific cut-off in the OIC respecting
18 November 2020 is in respect of an application report or
19 other filing that is made after that date.

20 So we have costs in this application that have
21 referred -- that will include some historical costs for
22 the programs that we're developing for the current DSM
23 program. That's how we interpreted that provision in
24 the OIC.

25 Q. Can you give us a pilot -- the pilot project, an update

10:58

10:59

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 on this, how it is rolling out?

2 A. MS. MILOJEVIC: As I responded to Ms. Sabo
3 earlier, we did our test events over the winter of 2020
4 and 2021. Last year was focused on installment of
5 devices in the homes. We plan to complete the pilot in
6 2022.

7 Q. Okay. My next set of questions will all rely on IRs.
8 And the first one -- I will go through them
9 separately -- the first one is on the revised IRs for,
10 I believe, number 1. There's revised IRs to Mr. Yee,
11 UCG, and the YUB on this one. Are you there?

11:01

12 A. MR. MOLLARD: We have the revised file. Which
13 IR are you referring to?

14 Q. Well, I'm going to go through these step by step. I
15 have questions on a few of these, so if you bear with
16 me.

17 Now, the first one is on Mr. Yee. You give the
18 stacking order of the -- how you utilize the various
19 diesels you have on hand.

20 From a prior IR to NY, it was noted that the FD1
21 capacity was 5.5, the installed capacity,
22 recommissioned to 5 in 2008, and 4 in 2011. Then the
23 resource plan reduced it yet to 3, and now we see it's
24 at 2.4.

11:02

25 Can you explain the continual decrease of the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 capacity of this unit?

2 A. MS. MILOJEVIC: Yes, Mr. Rondeau. So I'll
3 actually refer to our response to the revised Round 2
4 IRs from September 22nd.

5 In our response to NY-YEC-2-1 we explain that
6 continued duration. This is typical as units age. If
7 they have challenges, we derate the units to ensure
8 that the dependable capacity we're counting on them
9 reflects what they can actually output.

10 As outlined in that IR, the 2.4 megawatts for FD1
11 is based in what the unit can be run up to while in
12 remote mode without risking it shutting down from
13 overheating.

14 Q. Thank you. UCG 1-5 Revised. I guess it would be
15 pdf page 44. If you look at number (g), or the letter
16 (g) response, YEC responded on their idea of replacing
17 the regulatory framework into a performance-based
18 regulation.

19 Now, can you give us any examples of utility
20 regulation in Canada that still rely on rate of return
21 regulation, cost of service?

22 A. MR. MOLLARD: Mr. Chair, we could undertake to
23 do a little research and come back with a list of
24 Canadian utilities that we are aware of that are
25 regulated, as Mr. Rondeau points out.

11:03

11:04

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Q. Thank you.

2 UNDERTAKING - TO PROVIDE A LIST OF
3 CANADIAN UTILITIES THAT YEC IS AWARE OF
4 THAT ARE REGULATED

5 Q. MR. RONDEAU: Okay. In revised IR
6 response 1-18, UCG 1-18, you speak of N-1 planning.
7 And in order to get a better idea of decision-making
8 please turn to the last page of this IR, which is
9 page 3.

10 A. MR. MOLLARD: Mr. Rondeau, are you referring to
11 the third page of the attachment, because there are
12 only two pages in the response?

13 Q. Yes, it would be the attachment.

14 A. MR. MOLLARD: Okay, we're there.

15 Q. All right. You go to the last page, page 3, of this,
16 and it shows a breakdown of all the systems that we
17 have for YEC, YCL, Yukon Power System, and single
18 contingency.

19 Now, you state that Aishihik going down is the
20 largest danger to N-1 failure. Is that correct?

21 A. MS. MILOJEVIC: Either the loss of the facility or
22 the loss of the transmission line that connects the
23 facility is the single largest contingency of the N-1,
24 yes.

25 Q. And the amount of megawatts?

11:06

11:07

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 A. MS. MILOJEVIC: It's 37 megawatts.

2 Q. 37. Now, if we go through the diesels, we see that
3 there are 29,000 megawatts -- or 29 megawatts of diesel
4 on the system. Is this without the rentals?

5 A. MS. MILOJEVIC: The tables here do not reflect the
6 rentals, I do not believe. This is our permanent
7 existing resources.

8 Q. So we have 29 megawatts diesel and 13 megawatts natural
9 gas and 7 megawatts of diesel from ATCO; is that
10 correct?

11:09

11 A. MS. MILOJEVIC: I believe -- I'm just referring,
12 Mr. Rondeau, to our application page 2-14 just to get
13 the summary without having to do the math here. We
14 count on 23.5 megawatts of permanent Yukon Energy
15 diesel and 5.6 megawatts of ATCO diesel.

16 Q. What is the difference between installed capacity and
17 dependable capacity?

18 A. MS. MILOJEVIC: Installed capacity typically is
19 the nameplate capacity of the generator. So, you know,
20 in simple terms, basically when the generator is
21 manufactured, what the maximum output is judged to be,
22 but a variety of factors affect what, over time, or due
23 to circumstance, a unit can actually output. So the
24 dependable capacity is whatever the current rating is
25 in terms of what we understand the maximum output of

11:09

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 the generator to be. So that is, in a lot of cases, a
2 derated capacity, and that's what we use to count, and
3 how much can we count on that generator to provide on a
4 peak winter day when we need the most demand at once.

5 Q. Can you give me the amount of all of these three
6 dependable capacities, how much they come in at, the
7 YEC diesel natural gas and ATCO diesel?

8 A. MS. MILOJEVIC: The numbers I referenced earlier
9 that are in our application are referring to the
10 dependable capacity, not the installed capacity.

11:10

11 Q. Yes, I understand. Can you give us the dependable, the
12 amount of dependable capacity?

13 A. MS. MILOJEVIC: Yes. As I said, on page 214 those
14 values are the dependable capacity.

15 Q. And they are? What is the number?

16 A. MS. MILOJEVIC: Again, it's 23.5 megawatts of
17 Yukon Energy diesel and 5.6 megawatts of ATCO diesel.

18 Q. And natural gas?

19 A. MS. MILOJEVIC: 12.6 megawatts of natural gas.

20 Q. So that's still above the 30 megawatts that you have on
21 hand. I'm trying to get a better understanding of why
22 we need all these rental diesels.

11:11

23 A. MS. MILOJEVIC: So, Mr. Chair, I think it's not
24 about the permanent diesels adding up to the same
25 amount of capacity as the Aishihik facility, or the N-1

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 contingency, the 37 megawatts. Overall we have a
2 forecast load of a peak demand that we have to meet.
3 And the N-1 criteria says that if on that peak demand
4 day when you have to produce the most megawatts at
5 once, if you lose the Aishihik facility, you need to be
6 able to continue to serve that peak non-industrial
7 demand.

8 So if you lose the Aishihik facility and take that
9 out of your equation, the sum of all of your generation
10 has to be able to meet that non-industrial peak. The
11 gap between what we have today in permanent and the
12 forecast load is the amount that we rent in temporary
13 generators to ensure we can serve that firm load in the
14 event of an N-1 event.

11:12

15 Q. Okay, that helps a bit.

16 YUB-YEC-1-1, just down the line. In (a). Are we
17 there?

18 A. MS. MILOJEVIC: Yes, we are there.

19 Q. Okay. Due to higher than long-term average water
20 conditions expected for this year, you still have your
21 forecast before you determine the water conditions of
22 the year. Has there been any update on -- now that
23 we're three -quarters of the year through, on how this
24 may have changed?

11:13

25 A. MS. MILOJEVIC: Just to be clear, the IR reference

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 to YUB-YEC-1-1 is talking about dependable capacity,
2 and the additional water this year, the surplus water
3 that we've seen from high water levels, does not impact
4 the dependable capacity or maximum output of the hydro
5 generation.

6 So our dependable capacity picture does not change
7 regardless of the water availability for this year.

8 Q. Thank you. YUB-1-1, again revised (b). You give the
9 incremental diesel costs. Now, again, seeing that we
10 are nine months into the year, do you have an update on
11 diesel costs and LNG, as far as that goes?

11:14

12 A. MR. MOLLARD: Sorry, Mr. Rondeau, can you be
13 clear? The numbers in here are I don't believe
14 reflective -- are you asking for a market price update?

15 Q. Basically, yes. I mean, you're giving us here what --
16 approximately how much a kilowatt hour. It's 20 cents
17 and 21 cents in Faro. Now, has this -- has this
18 changed going into nine months of the test year?

19 A. MR. MOLLARD: Yes.

20 Q. Up or down?

11:15

21 A. MR. MOLLARD: Subject to check, I believe the
22 market price of fuel has increased since the
23 application was prepared. Or, sorry, to be clear,
24 since this IR was responded to.

25 Q. And do you have any contracts going forward into the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 end of the test year for purchase?

2 A. MR. MOLLARD: For the purchase of fuel?

3 Q. Yes.

4 A. MR. MOLLARD: Yes.

5 Q. Is the price again similar to the costs that you have
6 in this IR?

7 A. MR. MOLLARD: Mr. Chair, the fuel price
8 contracts don't provide a commodity number. That's
9 based on the current market price. That's always been
10 the way with fuel contracts.

11:16

11 Q. So you don't know -- how do you figure out your amount
12 per kilowatt hour then? There must be a way that
13 Yukon Energy does this.

14 A. MR. MOLLARD: Mr. Chair, typically we use the
15 GRA-approved price. The most recently approved GRA
16 price is our standard format.

17 Q. So if these prices -- if these prices change from your
18 GRA, then you -- if the prices go up, then you are
19 taking the risk? Yukon Energy is taking the risk?

20 A. MR. MOLLARD: No. Mr. Chair, we talked a little
21 bit about this under the YUB cross. We have Rider F,
22 which protects us from variations in commodity market
23 prices for fuel, LNG and diesel.

11:17

24 Q. I'll have some more questions on that a little later as
25 well, I believe.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Going down to YUB-1-11 revised. You give some
2 examples of the queue line for IPPs. You've got -- in
3 (a) and (b) you've got North Klondike Highway and
4 you've got Mount Sima project. Can you give us the
5 LCOC for each of these projects?

6 **A. MS. MILOJEVIC:** These projects don't provide any
7 dependable capacity, so there is no LCOC to calculate.

8 **Q.** So what are we paying per kilowatt hour for each of
9 these?

10 **A. MR. HALL:** We pay the last YUB-approved
11 blended fuel price as per the -- that's defined, I
12 believe, even in the Order in Council that establishes
13 the IPP program.

14 **Q.** And can you give us that LCOC?

15 **A. MR. HALL:** Again, it's the last cost of
16 energy that we pay, dollars per kilowatt hour, and
17 Mr. Epp is looking it up.

18 **A. MR. MOLLARD:** Mr. Chair, it's the rates that are
19 going to be in these two EPA contracts are going to be
20 the thermal costs that this Board approved in the
21 2017-18 GRA 2018 -- Order 2018-10 I believe.

22 **A. MR. EPP:** Yeah, the blended fuel price in
23 the 2018 approved was 0.1583 cents per kilowatt hour.

24 **THE COURT REPORTER:** Sorry, Mr. Epp, can you repeat
25 that number?

11:18

11:19

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 A. MR. EPP: Sure. The blended fuel price
2 approved in the 2018 GRA was 0.1583 cents per kilowatt
3 hour -- dollars per kilowatt hour, sorry.

4 THE COURT REPORTER: Thank you.

5 Q. MR. RONDEAU: While at these projects for
6 Independent Power Producers, can you tell us the status
7 of Northern Energy Capital?

8 A. MR. MOLLARD: Yes, Mr. Chair, I can confirm that
9 I received a notification from Northern Energy Capital
10 representatives last week that they were commencing
11 early site preparation work at -- on Haeckel Hill.

12 Q. But they are not on the queue list as of yet; is that
13 right?

14 A. MR. MOLLARD: Well, they are on the list for
15 connection, but they won't be ready for another year or
16 18 months.

17 A. MR. GAZANKAS: It's Gary Gazankas. I believe the
18 targeted date right now is looking at 2024 in-service
19 date, verification.

20 A. MR. HALL: Anyway, we haven't signed an
21 electricity purchase agreement with them, to be clear.
22 So we have started to work on that negotiation, but no
23 deal has been signed yet.

24 Q. Thank you. IR 1-18, YUB speaks to line losses.

25 Now, you have maintained your average line loss at

11:21

11:21

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 8.8; is that correct?

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

3 Q. 8.8 percent. Now, in light that Yukon Energy has spent
4 millions on three new substations, replaced capacitors,
5 cables, insulators, increased line from 69 to 138
6 kilovolts, new and more efficient conductors, new and
7 more efficient transformers, breaker replacements and
8 other costly efficiency, like SATCOM or STATCOM, why
9 are these line losses not dropping?

10 A. MR. GAZANKAS: This is Gary Gazankas. These are
11 based on system-wide line losses. You know, we still
12 have existing conductors, transformers, et cetera in
13 the system. And even with that said, even new modern
14 transformers like the actual core losses within are not
15 materially different from transformers manufactured
16 years ago.

17 So as an example, it's like a baseboard heater in
18 your home. You know, when it dissipates heat, it's not
19 much different than it was, you know, 20 years ago.

20 So similar to that, upgrading a conductor from
21 Mayo to McQuesten, which is a small component of our
22 system, would not materially impact the line losses
23 throughout.

24 A. MR. EPP: And, Mr. Chair, if I could --
25 using the 2021 forecast here is based on the average of

11:23

11:23

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 2017 to 2019, the sort of three-year average, which is
2 consistent in how we have done that in the past as
3 well.

4 THE COURT REPORTER: Sorry, was that Mr. Mollard?

5 MR. MOLLARD: That was Mr. Epp.

6 THE COURT REPORTER: Thank you.

7 Q. MR. RONDEAU: Does not increasing a line from 69
8 to 138 kilovolts greatly improve the efficiency, cut
9 down line losses?

10 A. MR. GAZANKAS: You're correct in that -- this is
11 Mr. Gazankas -- You're correct in that, it does reduce
12 line losses, the higher the voltage in transmitting
13 power.

11:24

14 However, that is a small component of the system
15 and, as such, the overarching calculation of line loss
16 from a system perspective is not materially impacted or
17 changed based on that circuit being replaced.

18 Q. Thank you, Mr. Gazankas. YUB-1-39 revised. Now, you
19 speak of a senior project -- sorry, I'll wait till
20 you're there. Number (k) -- or letter (k). Here you
21 speak of going forward for the Southern Lakes
22 transmission line and pump storage. You have a senior
23 projects manager. Is this an inhouse manager?

11:25

24 A. MS. MILOJEVIC: The senior project manager would
25 be inhouse, yes. We have not yet hired this position,

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 so it's currently vacant.

2 Q. Now, this inhouse manager will be paid wages, I gather?

3 A. MS. MILOJEVIC: Yes.

4 Q. So will the costs of this management still be placed on
5 the capital costs of these projects?

6 A. MS. MILOJEVIC: Yes. Consistent with other
7 employees, if their time is being used for a capital
8 project, they'll charge that time to the project.

9 Q. Is this not double dipping? We're paying wages and
10 then you expect us to pay yet again.

11:27

11 A. MR. MOLLARD: Mr. Chair, if I could intervene
12 here. We describe in Tab 3 Revenue Requirement with
13 respect to labour that, when we set the labour
14 component of revenue requirement, we first divide up
15 what we believe to be the split of labour between
16 capital and O&M, or admin, so it's not double dipping.
17 The number that's in Tab 3 Revenue Requirement is only
18 that component of the labour that is charged to O&M.
19 The capital costs run through the projects and are
20 included in revenue requirement when the project is put
21 in service through Tab 5. So there is no double
22 dipping.

11:27

23 Q. You charge ratepayers through revenue requirement to
24 pay the wages. Then you charge under Capital Projects
25 to pay for these positions again. If that isn't double

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 dipping, I would like to get a better picture of it.

2 A. MR. MOLLARD: Sorry, Mr. Chair, I'm not clear
3 what the question was there.

4 Q. The question is, how can you explain that this is not
5 double dipping?

6 A. MR. MOLLARD: Mr. Chair, I believe I've done
7 that. The evidence is on the record. Tab 3 clearly
8 shows how we split between capital and O&M labour wages
9 to ensure that we are not double dipping.

10 Q. YUB-1-39 revised. Letter (o). I believe it's on a new
11 department that's being put into place; is that
12 correct? It says: (as read)

13 "The department includes one manager who
14 has responsibility for providing
15 leadership and supervision to the team."

16 A. MR. MOLLARD: I'm sorry, what was your question,
17 Mr. Rondeau?

18 Q. Is this a new position?

19 A. MR. MOLLARD: The manager is not a new position.

20 Q. YUB-1-46. Now, I realize that there were several
21 questions from the Board legal on DSM. I have only one
22 for this particular one.

23 If you look at the section starting in OIC,
24 Section 221-16, which speaks to the OIC recommendations
25 or law regarding demand side management.

11:28

11:30

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Now, is it YEC's interpretation that the YUB still
2 has final say on which DSM costs are still -- are to be
3 added to rate base?

4 **A. MR. MOLLARD: Subject to an assessment for**
5 **prudence, yes.**

6 **Q. YUB-1-61(b). Here you explain where some of the**
7 **funding arrangements came from. My question here, is**
8 **the AEY, YDC, and NRCan funding outside of the rate**
9 **base?**

10 **A. MR. MOLLARD: That is not correct. The**
11 **contributions are offset against the capital costs of**
12 **the project so that ratepayers aren't charged for those**
13 **amounts.**

14 **Q. It's just an offsetting part of this particular**
15 **accounting?**

16 **A. MR. MOLLARD: Yeah. It offsets the project**
17 **costs, that's correct.**

18 **Q. And NRCan still provide 50 percent?**

19 **A. MS. MILOJEVIC: Yes. 50 percent of eligible costs**
20 **are funded by NRCan.**

21 **Q. My question would be why is Yukon Energy still applying**
22 **for \$.8 million to go into the rate base?**

23 **A. MR. MOLLARD: So, Mr. Chair, just to be clear,**
24 **we are not applying for costs of 809 million. We are**
25 **applying for costs 809 million net of contributions of**

11:32

11:33

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 365. Sorry. 809,000.809 million, less contributions
2 of 365,000, that's the amount we're being asked to
3 include in rates.

4 Q. Now, this project was placed in by government and -- a
5 deal between the governments and Yukon Energy. Why are
6 ratepayers being asked to pay for this when there was
7 so much funding already provided?

8 A. MR. HALL: There's a couple of points here.
9 Firstly, the program results in real savings. So, you
10 know, when we see a peak coming, what happens is we
11 actually dispatch and control the water heaters. So
12 this program actually delivers on savings from day one
13 in terms of reducing peak.

11:34

14 And, secondly, it's really important, in our view,
15 and why we believe these are prudently incurred costs,
16 that we get experience with how Yukoners behave with
17 these devices in their homes, what the uptake is, how
18 acceptable it is and what the user experience is. So
19 there's really critical data that we believe justified
20 the pilots in the beginning.

11:35

21 And, to that point, we had excellent uptake. We
22 signed up over -- you know, around approximately
23 400 homes, which for a small population is a
24 significant uptake of this program and, you know, we're
25 just crunching the numbers on the first winter in terms

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 of the actual result, but I think from that -- from
2 user uptake perspective very successful and, therefore,
3 in our view, prudently incurred costs.

4 Q. I have no problem with the concept of the pilot
5 project. It's the funding arrangements that I have
6 difficulty with because most of the ratepayers will not
7 receive any benefit from this program, with the
8 exception of perhaps, as you say, less energy used
9 during the peak.

10 Why should all ratepayers pay for a pilot project? 11:36

11 A. MS. MILOJEVIC: Again, I think as I was speaking
12 to earlier with DSM, it's not just the program
13 participants that benefit from the program. Since the
14 program reduces peak, it means we have to generate less
15 at peak and it affects how much dependable capacity you
16 would end up needing when you look over the long term.

17 So that's where you use cost effectiveness to
18 measure -- cost-effectiveness tests, excuse me, to
19 measure the effectiveness of a DSM program,
20 particularly as Mr. Hall was saying, with this program, 11:37
21 we identified a pilot to test technology and uptake in
22 Yukon, which is largely funded so that the ratepayers
23 have to incur far less costs than they would if we were
24 wholly funding the program through rates.

25 But it's directly tied to a number of initiatives

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 we know are coming, particularly around Yukon
2 government's policy on electrification of heating, and
3 so we know that heat is a very large peak driver.

4 So this pilot gives us lots of learnings to help
5 us refine our program design to ensure we can manage
6 peak moving forward. So it's not just the program
7 participants benefitting, it's all ratepayers.

8 Q. Okay, thank you. YUB-1-73. Again, on the
9 Southern Lakes Transmission Interconnection Project, an
10 estimated cost of \$166,000. Is that being applied for
11 in the rate base of this year?

11:38

12 A. MS. MILOJEVIC: No. The Southern Lakes
13 Transmission Line Project is part of our ten-year
14 renewable plan with a later in-service date near 2030.

15 Q. So we'll be reviewing -- we'll be doing a prudency
16 review on these costs at the next GRA? Or --

17 A. MS. MILOJEVIC: I wouldn't say it would be the
18 next year. It will be after the asset is in service,
19 is my understanding.

20 Q. Okay. Exactly. Now, it also says the updated resource
21 plan, renewable resource plan, is this part and parcel
22 of this hearing? Are we reviewing this renewable
23 energy plan?

11:38

24 A. MR. HALL: Just to clarify, Mr. Rondeau, are
25 you referring to the 10-year renewable plan?

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Q. Yes, correct.

2 A. MR. HALL: So it's on the record. We're
3 happy to answer questions about it.

4 Q. That's fine. Thank you.

5 UCG Round 2 IRs responses. If we go to UCG. I'll
6 give you time to get there.

7 Are we ready?

8 A. MS. MILOJEVIC: Could you provide us with the IR
9 number reference, please?

10 Q. UCG-YEC-2-1.

11:41

11 A. MS. MILOJEVIC: Yes, we're there.

12 Q. Okay. It speaks about the low water reserve fund and
13 the OIC.

14 Can you tell me exactly why Yukon Energy did not
15 file the term sheet for 2019 at the end of the year as
16 it was ordered to do by the Board?

17 A. MR. MOLLARD: Yeah, Mr. Chair, there was -- so,
18 yes, I acknowledge that order. I think it's important
19 to recognize what was going on at that time. We were
20 dealing with, at the end of 2019, the fallout from the
21 extensive -- the last proceeding that we went through
22 that had gone on for about 18 months. So we didn't --
23 we weren't in a position to update the report at that
24 time.

11:42

25 We then very quickly went into a pandemic in the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 first quarter of that year. So, again, we were
2 somewhat distracted by that. We subsequently were able
3 to get this -- and then after that, we were immediately
4 into an application preparation process, which resulted
5 in this proceeding.

6 So, really, we were doing other things at the time
7 and so we were delayed from preparing that report. We
8 got it on the record in April of this year, which was
9 our earliest opportunity.

10 Q. Could it be, Mr. Mollard, that you were waiting for the
11 government edict to come down?

11:43

12 A. MR. MOLLARD: That is not correct.

13 Q. Did YEC have any say in the directions of this OIC?

14 A. MR. HALL: We certainly had conversations
15 with government about the subject of the low water
16 fund, but I just want to make it very clear that
17 cabinet makes decisions on Orders in Council. We have
18 no role in that.

19 Q. I understand that. Has the term sheet, the 2018 term
20 sheet, reported on December 10th, 2019, been approved
21 by the Board?

11:43

22 A. MR. MOLLARD: If I -- and I'm referring to the
23 response, UCG-YEC-2-1 -- so the Board acknowledged
24 receipt of that filing, but did not approve it at that
25 time, stating that any future issues regarding the term

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 sheet are to be addressed in the next GRA.

2 Q. Now, in order to get a better understanding of how
3 things have changed with the OIC, could you please
4 provide us with two term sheets for 2019, using the
5 same format as you used on the Table 2-2, Report to the
6 Board, December 10th, 2019, one using only the Board
7 directives and then one using the OIC?

8 A. MR. MOLLARD: So, to be clear, Mr. Rondeau, when
9 you say "Board directives," you're referring to the
10 directions from the 2017-18 GRA in Order 2018-10?

11:45

11 Q. That's correct, yes. That was used in the 2018 term
12 sheet. So a similar term sheet for 2019 using --
13 before the OIC and after the OIC.

14 A. MR. MOLLARD: I believe the -- okay, all right,
15 I will do that. Thank you.

16 Q. Thank you very much.

17 UNDERTAKING - TO PROVIDE TWO TERM
18 SHEETS FOR 2019, USING THE SAME FORMAT
19 AS USED ON TABLE 2-2, REPORT TO THE
20 BOARD, DECEMBER 10, 2019, ONE USING
21 ONLY THE YUB BOARD DIRECTIVES AND ONE
22 USING THE OIC

11:44

23 Q. MR. RONDEAU: Now, it's my interpretation that
24 you used the actual load, not the forecast load to
25 assign the low water thermal cost changes at the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 forecast load due to changes in water conditions. Is
2 that a correct interpretation?

3 A. MR. MOLLARD: Can you repeat that, please?

4 Q. You used the actual load instead of the forecast to
5 assign the low water thermal cost changes at the
6 forecast load due to changes in water conditions?

7 A. MR. MOLLARD: I'm sorry, Mr. Chair, I'm not
8 understanding the question. He started out referencing
9 "actual load" and then he said "forecast load." So it
10 can't be both. I'm sorry, I'm just -- I'm confused
11 about what the question is.

11:46

12 Q. Maybe I just ask: The actual load is used to assign
13 the low water reserve thermal changes, cost changes,
14 due to water conditions? Does that make more sense?

15 A. MR. MOLLARD: Okay, yeah. Let me try something,
16 Mr. Rondeau. I think I understand.

17 Yes. The -- based on the current rules, as we
18 understand them, and our interpretation of the OIC, the
19 impacts to the low water reserve fund are based on our
20 assessment of the water impacts on the actual load for
21 the year.

11:47

22 Q. But you still forecast these load conditions that
23 somehow factored into the determination of this term
24 sheet? Yes or no?

25 A. MR. MOLLARD: You have to be more clear,

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Mr. Rondeau. What -- forecasting what?

2 Q. The load.

3 A. MR. MOLLARD: Well, no, I think the term sheet
4 is pretty clear. The ultimate impact of the low water
5 reserve fund is based on the actual generation for the
6 year.

7 Q. Okay. I'm having trouble getting my question the way I
8 want it, but that's fine.

9 Nevertheless, does not shifting to the actual
10 load, does it not shift all the burden or the risk onto
11 the ratepayer?

12 A. MR. MOLLARD: No. As I responded to the YUB
13 this morning, the impact of this OIC is to bring us
14 back into line with the previous directions from this
15 Board since this fund was created in 1991. We've
16 always been protected against long-term average on
17 actual loads. It was only in 2018 that there was a
18 departure from that principle.

19 So we've always set our -- we've set our revenue
20 requirement the same way for the last 16-odd years and
21 we've always had that protection from that risk,
22 excluding 2018.

23 Q. Yet the term sheet uses forecast load. That's what I'm
24 trying to get at. Am I right or wrong?

25 A. MR. MOLLARD: You're wrong. The impact of the

11:48

11:49

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 low water -- we do an estimate of what we think the low
2 water reserve fund impact is going to be based on our
3 business plan, which is a forecast, but the important
4 part of that is that the ultimate impact to the fund
5 and the actual accounting transactions are driven off
6 the actual generation for the year.

7 Q. UCG-2-10.

8 A. MR. MOLLARD: Okay, we're there.

9 Q. Now, the adjusted fixed charge was -- is brought into
10 action. Can you demonstrate how the revenues from this
11 stream will be accounted for? Will it be against the
12 revenue requirement?

13 A. MR. MOLLARD: The fixed charge is included in
14 our estimate of revenue. So, yes, it is accounted for
15 in this application.

16 Q. So it's reconciled -- it will be reconciled in your
17 revenue requirement?

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

19 Q. Okay.

20 THE COURT REPORTER: Sorry, was that --

21 A. MR. MOLLARD: Yes, just for the benefit of the
22 Board, if I could be a little clearer on that. So the
23 revenue from the fixed charge goes into revenue at
24 existing rates, so when we're calculating the ultimate
25 rate increase that we're going to get through this

11:50

11:51

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 proceeding, that's already accounted for. So I have my
2 costs less my revenue and existing rates as my rate
3 increase. So the fixed charge is already estimated in
4 revenue and existing rates so that I'm not collecting
5 that from ratepayers.

6 Q. UCG-2-10(c). Basically, states that, all customers,
7 which means including the mines, pay for the associated
8 costs for all of the other lines that are existing. Do
9 these costs that are charged back to individual
10 ratepayers, are they on the amount of energy used?

11:52

11 A. MR. MOLLARD: So I think we're getting into some
12 rate design issues here, Mr. Chair. The portioning of
13 revenue requirement between energy charges, customer
14 charges, and demand charges is a rate design question.
15 So how those costs are split up, we have not looked at
16 that as part of this proceeding.

17 Q. We have not looked at that for many years now; is that
18 correct?

19 A. MR. MOLLARD: Rate design was last reviewed in
20 2009, to my memory.

11:53

21 MR. RONDEAU: Okay, that's all for that
22 particular -- I've got one more to go through, and
23 that's YUB Round 2, and that will be the end of my
24 cross-examination.

25 So I don't know if you wish me to continue or take

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 -- I would like to take a break, then.

2 THE CHAIR: Yeah. We're close to the noon
3 hour in any event, so let's reconvene at 1:55.

4 MR. RONDEAU: Thank you, Mr. Chair. That's good
5 to me.

6 THE CHAIR: Okay. I think everybody will go
7 along with that.

8 (PROCEEDINGS ADJOURNED AT 11:55 A.M. PST)

9

10 PROCEEDINGS ADJOURNED TO 1:55 P.M. PST

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Volume 2

2 September 28, 2021

3 P.M. Session

4

5 (PROCEEDINGS RESUMED AT 1:59 P.M. PST)

6 THE CHAIR: Welcome back, everyone. I'm just
7 getting our participants sorted out.

8 So before we get started, just a reminder to help
9 out our court reporter, reminder to self and others, if
10 you're speaking, please state your name, particularly
11 those of us who are on sort of the long-range view and
12 she can't see our lips moving.

13 So with that, Mr. Rondeau, are you ready to resume
14 your questions?

15 MR. RONDEAU: Yes, I believe I'm ready to go.

16 THE CHAIR: Okay.

17 MR. LANDRY: Mr. Chair, before we start, could
18 I just raise one issue? I apologize, Mr. Rondeau.
19 Just see if we can sort out one of the issues that was
20 raised.

21 In relation to the aid to cross-examination,
22 Mr. Chair, that was used by Mr. Yee --

23 THE CHAIR: Yes.

24 MR. LANDRY: -- I've gone back and forth by
25 email, unfortunately, we haven't been able to speak by

13:59

13:59

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 phone, but here's what I would suggest, and hopefully
2 Mr. Yee would be okay with this.

3 We've looked at the aid to cross-examine, and with
4 the exception of the screenshot, and that's an unsure,
5 but with the exception of the screenshot and the YEC
6 permit, all of the other documents are already on the
7 record.

8 THE CHAIR: Yes.

9 MR. LANDRY: And Mr. Yee did cross-examine on
10 the screenshot and he did cross-examine on the permit.
11 So, so that there isn't any confusion, because it can
12 sometimes become confusing when you're using an aid to
13 cross, I think we take your direction on aid to
14 cross -- as I will if I do cross-examination, because
15 it is not technically evidence until the foundation has
16 been put in place -- I think for the purposes of this,
17 and given the amount of questioning on the record, the
18 best way to do it would be to put the whole aid to
19 cross-examine onto the -- as the exhibit, which I
20 believe is Exhibit C-4-8. Then there won't be a
21 difficulty in terms of missing pages and that type of
22 thing. It might clean it up a little bit, and it would
23 be easier on Mr. Yee.

14:00

14:01

24 THE CHAIR: Sure. Okay. And, you know, from
25 the Board's perspective, you know, I mean, if the bulk

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 of that aid to cross is already documents on the
2 record, you know, we're free to use them as we see fit.
3 If there's evidence -- additional evidence, we will
4 give it such weight as we feel appropriate. So that
5 simplifies things.

6 Is that okay with you, Mr. Yee?

7 MR. YEE: That works for me, yes.

8 THE CHAIR: Okay, great. Very good. We'll
9 tick that one off.

10 **EXHIBIT C-4-8 - MR. YEE'S PACKAGE OF**
11 **AIDS TO CROSS AS DESCRIBED**

12 THE CHAIR: Okay, Mr. Rondeau.

13

14 **A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP**
15 **(For Yukon Energy Corporation), previously affirmed**
16 **MR. RONDEAU CROSS-EXAMINES THE PANEL:**

17 Q. Yes. For these questions, I would like you to go to
18 YUB-YEC second round of questions, and the first one is
19 2-1. And it's on page 2 of 3, the second bullet from
20 the last at the bottom. It gives some reasons why the
21 N-1 shortfall is happening as it is right now.

22 I'm looking at the retired Whitehorse diesel
23 number 3.

24 Now, when was this diesel last overhauled?

25 A. MR. MOLLARD: It's Ed Mollard. 2006, I believe.

14:02

14:02

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Q. So it was absolutely not usable any longer?

2 A. MR. MOLLARD: Mr. Chair, that unit was built
3 approximately 1968, very much obsolete. It's
4 impossible to get parts for it anymore. Yeah, it was
5 end of life. And we have provided assessments in prior
6 proceedings that agreed with that assessment that it
7 was end of life.

8 Q. Okay. The next one is the IPP line. I already asked a
9 question on the standing offer program for Haeckel Wind
10 Farm. I'll move on then from there.

14:04

11 The next one would be 2-9 on RFID, R-F-I-D, and
12 letter (e) on page 3 of 3. You give some examples of
13 the RFID costs, or what the RFID costs were for 2020.
14 Now, were these all old equipment that were -- that had
15 breakdowns or -- I gather the first one is the LNG
16 machinery?

17 A. MR. MOLLARD: The definition in the approved
18 policy is a premature failure of a piece of equipment.
19 So these were not end-of-life assets.

20 Q. So none of it -- none of these machinery were under
21 warranty?

14:05

22 A. MR. MOLLARD: No, they were not. Although,
23 Mr. Chair, if I could, a point of clarification. With
24 respect to the WG1 and WG2 failure, we did have an
25 issue with -- these are reciprocating thermal engines.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 We did have issues with the heads that contain the
2 valves, kind of critical to operations of the unit.
3 There was issues with those heads.

4 So to the extent that the OEM acknowledged that
5 there was a problem, they provided those heads to us at
6 no extra cost. So this is net of that -- this number
7 is net of that amount. So we weren't specifically
8 under warranty, but because of the nature of the
9 failure of those heads, the OEM did provide us with
10 replacement heads at no cost.

14:06

11 Q. Okay, thank you. I think that was one of the questions
12 down the line. YUB-2-13(b), which would be page 2 of
13 2. It's just a small statement "YEC does not have an
14 updated account of retrofitted streetlights."

15 Does YEC have any streetlight costs in this
16 particular application?

17 A. MR. EPP: Yeah, the LED streetlights, as
18 part of the previous GRAs -- part of the DSM package
19 were approved. So any costs relating to the completion
20 of those projects would be added to our rate base and
21 then subject to depreciation. I don't have the actual
22 dollar amounts offhand, but they might be in one of the
23 tables.

14:07

24 Q. Is there -- that's fine. Is there anywhere where you
25 have demonstrated that these were end of life, as you

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 were directed to by the Board? The old ones were end
2 of life if you updated retrofitted --

3 **A. MR. EPP:** **The LED streetlights that were**
4 **placed were end of life.**

5 **Q.** Thank you. I guess the next one is what we just spoke
6 about, the blocks on the LNG, YUB-2-14. And were there
7 any costs to the ratepayer or was this all covered by
8 the people you bought the machinery from?

9 **A. MR. MOLLARD:** **There is a cost to ratepayers.**
10 **That would be the net charge that we put into the RFID.**

14:08

11 **Q.** That went into the -- into the record. Very good.
12 2-15, YUB-2-15(a). You say you look at the LOLE
13 and the N-1 during the resource plan. Now, the
14 resource plan is just happening now; am I right? The
15 actual okaying of the resource plan for the renewables
16 is being asked to be sanctioned by the Board?

17 **A. MR. HALL:** **Mr. Rondeau, just to be clear, the**
18 **10-year renewable plan is on the record, but there's no**
19 **formal request for Board approval. It's not a**
20 **requirement; it's more information.**

14:10

21 **Q.** It has never brought -- been brought before the Board
22 for approval?

23 **A. MR. HALL:** **Historically, there have been**
24 **occasions where there have been formal proceedings**
25 **to -- for the YUB to review and approve prior resource**

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 plans, but this is not an example like that.

2 A. MR. MOLLARD: Just to be clear, it's not
3 actually an approval. There isn't a mechanism right
4 now in place for the Board to approve a resource plan.
5 We did one in 2006, and there was a report done to the
6 Minister of Justice as part of a separate review, but
7 there's never -- certainly in the 20 years I've been
8 here, there's never been an approval by the Board of a
9 resource plan.

10 Q. That's my understanding as well. So there's no plan on
11 putting this before the Board to get some type of --
12 it's not an approval, but some type of recommendations
13 to the minister or to -- I guess it would be to the
14 minister where it goes; is that correct? The minister
15 responsible for YEC?

14:11

16 A. MR. MOLLARD: There is no direction associated
17 with the 10-year renewable plan to provide such a
18 report. We have put the plan on the record as part of
19 this proceeding, and we have projects on the books that
20 we're executing in accordance with the recommendations
21 of that plan. So we're asking the Board to review
22 those projects, but there's no -- as I understand, the
23 minister has not requested the Board to provide a
24 report on that renewable plan.

14:11

25 Q. YUB-2-17, DSM costs. Is there any program designed --

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 or programs that you have scheduled to go online for
2 DSM? Do you have any new programs, in other words?

3 A. MS. MILOJEVIC: So the current cost reflected in
4 Table 10 of the IR you're referencing, YUB-YEC-2-17,
5 includes just the in-charge program, which had been
6 completed and stopped in 2020, the pilot that we spoke
7 about earlier for residential demand response and
8 simply the design of future DSM programs, not their
9 implementation. So no.

10 Q. So we've spent taking off the pilot program. We've
11 spent at least half a million dollars on developing
12 some programs with nothing at hand. Is that how I read
13 this?

14:13

14 A. MS. MILOJEVIC: Well, to be clear, I think
15 Mr. Mollard had referenced earlier the decision in the
16 Court of Appeal regarding the DSM historical costs. So
17 accordingly, in this table, the \$385,000 -- I'm sorry,
18 pardon me, \$385,009 for DSM program design in 2019 will
19 be written off, as in not charged to ratepayers.

20 So, no, the total net costs for program design
21 that we're talking about here is somewhere in the range
22 of 100,000 or less.

14:14

23 Q. So this 600,000, it's not to go on the rate base then?

24 A. MS. MILOJEVIC: The 385,000 in the top line will
25 not be, to my understanding, in rate base; it will be

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 written off due to that decision.

2 Q. So only the pilot project costs and the 100,000 or so
3 that you spent on design is what will go into rate
4 base?

5 A. MS. MILOJEVIC: Yes. So the other line items in
6 this table, the in charge, the pilot, and I believe
7 there's that 8,000 light disposal item, as well as the
8 2021 program development.

9 Q. Okay, thank you. YUB-2-17, the costs of the McQuesten
10 transmission line upgrade, Mayo-McQuesten line upgrade.
11 It is almost \$9 million; is that correct, if we go on
12 the chart? 8.628? \$8.628 million?

14:15

13 A. MR. MOLLARD: Yes, that is the net forecast --
14 the project cost net of contributions that we're
15 forecasting.

16 Q. And then the contributions are -- I don't see them
17 here. It says... Is there any area where the
18 contributions are listed in this particular --

19 A. MR. MOLLARD: It's directly above the total
20 after contributions, 20.991.

14:16

21 Q. I see. So the 8.6 is to go into the -- into rate base?

22 A. MR. MOLLARD: Correct.

23 Q. All right. Now, that amount of money going into rate
24 base for a handful of ratepayers, of non-industrial
25 ratepayers, is this not extreme?

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 A. MR. MOLLARD: A couple of things, Mr. Rondeau.
2 I think I'd point out now -- Mr. Hall has a comment as
3 well. In our opinion, the ratepayers are actually
4 getting a pretty good deal. They're getting almost
5 \$30 million worth of assets for 8 1/2 million dollars.

6 And the second point I would add is to our earlier
7 discussion from earlier today on rate Schedule 39,
8 these costs will be added into the fixed charge that
9 goes to the mines on that system. So 85 percent of the
10 depreciation and return related to this project will be
11 charged to Alexco and Victoria Gold based on their load
12 on the system.

14:17

13 A. MR. HALL: I think from a broad perspective,
14 I talked in my opening statement about the fact that we
15 have aging assets, and lines such as this have reached
16 end of life. And so as the utility, you're faced with
17 a decision about basically either replacing the line or
18 taking it out of service. And way back when, before we
19 undertook this project, we did look at the option to
20 take it out of service and put those customers
21 basically back on diesel because that's the only option
22 to serve a small number of customers like that. And
23 actually the costs were higher, you know, to do that.

14:18

24 So, you know, I think when you come to a major
25 asset replacement decision, as Mr. Mollard suggested,

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 the fact that the federal government coming in with
2 \$20 million of funding is a good deal for ratepayers
3 overall.

4 Q. Thanks for that. So one last point on this. So the
5 mines -- the mines will be paying 85 percent of this
6 \$8.628 million; is that correct?

7 A. MR. MOLLARD: The fixed charge is calculated on
8 an annual basis and they pay 85 percent of those costs
9 in that year. So that's the depreciation and the
10 return on rate base that that asset will -- attracts,
11 yes.

14:19

12 Q. So it's not necessarily the 8.6, it's...

13 A. MR. MOLLARD: No. They pay it on an annual
14 basis in accordance with the rate schedule. They won't
15 be cutting us a cheque for \$8 million.

16 Q. No, 85 percent of it. Okay. YUB-2-17, dam safety
17 recommendations.

18 Now, my question is, there were some outside
19 contractors that were hired to conduct this review, is
20 my understanding. Am I correct?

14:20

21 A. MR. GAZANKAS: This is Gary Gazankas. Yes,
22 you're correct.

23 Q. Okay. Well, my question goes, if I go down the line
24 here, why are there so many internal costs added, like
25 labour, travel, other, rental, fuel, and utilities?

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Again, it appears that we're being charged for
2 employees doing extracurricular work.

3 A. MR. GAZANKAS: It's Gary Gazankas.

4 Mr. Chair, I would like to highlight that these
5 are specific charges that Mr. Rondeau is referring to.
6 These projects are driven from the dam safety
7 recommendations or the dam safety review that we
8 conduct every five years. So as you can see in the
9 title in Table 7, it says "Dam Safety Recommendations."
10 These costs are associated with specific projects that
11 are driven from the dam safety review plus our annual
12 dam safety inspection program.

14:21

13 Q. Okay, I understand that, but why are we charging for
14 inhouse labour, travel, et cetera, rentals, fuel?

15 A. MR. GAZANKAS: Well, this is Gary Gazankas again.
16 So, again, we need to differentiate between the dam
17 safety review and dam safety projects. But I'll refer
18 to the dam safety review. So every five years YEC
19 conducts a dam safety review, all its dam facilities in
20 accordance with the Canadian Dam Association. We went
21 out competitively and we hired a consultant to perform
22 that for us, as recommended in the Canadian Dam
23 Association guidelines.

14:22

24 When we hire outside consultants we still need
25 internal staff to manage those consultants. We can't

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 just let them go off and perform assessments throughout
2 the system. Obviously just as an example, Aishihik
3 facility or Mayo, these individuals could be from
4 British Columbia, Alberta, or even as far as Ontario.
5 So we do need internal involvement to support these
6 inspections and the delivery of the report. Even the
7 review of the draft report, once it's received.

8 Q. I understand we need internal hands on there, but I
9 don't understand why we charge yet again for their
10 services when they are paid a wage. I guess maybe my
11 understanding is not correct on this. Again, it
12 seems -- am I not correct in assuming there's some
13 double dipping happening?

14:23

14 A. MR. MOLLARD: You are correct that you are
15 incorrect. There is no double dipping.

16 Q. Okay. YUB-2-17. The Aishihik 3-year licence renewal.
17 Now, are you applying for this particular -- the costs
18 for this particular renewable on the rate base this
19 year?

20 A. MR. HALL: Yes.

14:24

21 Q. Yes, you are? Sorry?

22 A. MR. HALL: Yes, we are.

23 Q. Okay. Now, how do ratepayers and the Board justify
24 this expenditure when we are not certain that there is
25 overlap or duplication from the longer term? Have you

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 shown to us sufficiently that there is no overlap or
2 duplication?

3 A. MS. MILOJEVIC: So I would just like to refer to
4 our response to -- in the -- I'll look it up to get the
5 right exhibit. Apologies -- in our Round 1 IRs. So I
6 believe in Exhibit B-9. I'm referring to a response to
7 YUB-YEC-1-59. I'll get the pdf page number here. So
8 it's pdf page 2,184.

9 And this table provides the breakout of the cost
10 specific to the 3-year licence activities. These would
11 actually be to a different cost code, so there would be
12 no costs that would be attributed to both projects as
13 in the 3-year and the long-term licence projects. So
14 they've been separated as these costs as shown in
15 Table 1 in that response.

16 Q. YUB-1-59, Table 1?

17 A. MS. MILOJEVIC: That's correct, yes.

18 Q. Okay, I'll have a look at that. Thank you.

19 Again, the next one is on DSM, and I asked you
20 about programs, which there are none set as of now.

21 The next one is YUB-2-17. And what I'm
22 specifically looking at is Table 12, Transmission
23 Access Road Program Study.

24 Now, there was a desktop GIS study, according to
25 this. Who was that performed by?

14:25

14:26

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 **A. MR. GAZANKAS:** This is Gary Gazankas. That study
2 was performed by Tetra Tech.

3 **Q.** Okay. I guess my question is, why could this not be
4 simply done by Yukon Energy line crews with a GPS as
5 they are out in the field working in these particular
6 areas?

7 **A. MR. GAZANKAS:** This is Gary Gazankas. We have a
8 fairly slim staff of qualified line crew. Their
9 priorities are responding to events on the system and
10 involved with our TLR program, customer connects,
11 et cetera. And, as such, we required a third-party
12 consultant to support us in the data collection and
13 this desktop exercise.

14:27

14 **Q.** Thank you, Mr. Gazankas.
15 YUB-2-17. Again, the IPP Standing Offer Program.
16 Now, if I look at Table 13, the first thing I see is
17 ATCO Electric charges here. Why are they on
18 Yukon Energy's costs?

19 **A. MR. HALL:** Mr. Chair, I think it's important
20 to realize that those costs incurred in 2019 related to
21 the development of the detailed documentation to
22 support the implementation of the standing offer
23 program. So that would include the program rules, the
24 standard electricity purchase program agreement
25 template, et cetera.

14:28

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 And the standing offer program applies both to
2 Yukon Energy and ATCO. So pretty early on we
3 identified an opportunity to work collaboratively with
4 them on development of that standard documentation.

5 So what you see here is we used their legal
6 counsel at a certain point to help with the development
7 of those documents, and I believe that this payment to
8 ATCO was just to recover the costs for that legal work.

9 Q. Okay. So we won't -- we don't have to worry when ATCO
10 comes for a rate increase that they're going to put
11 these charges on as well?

14:29

12 A. MR. HALL: I believe it was a cost share
13 arrangement, so you'll probably see their half of the
14 costs appear in their next rate application.

15 Q. Okay, thank you.

16 2-17, continuing Table 14, Mount Sumanik Wind
17 Feasibility Studies. Exactly when did you take
18 Mount Sumanik off the radar?

19 A. MS. MILOJEVIC: We removed the equipment from the
20 site in 2020.

14:30

21 Q. And in this chart, those are the costs we see?

22 A. MS. MILOJEVIC: Yes, that's right. The \$25,000 is
23 for the decommissioning of the site and the removal of
24 the assets.

25 Q. And, again, it's internal costs added here; is that

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 correct?

2 A. MS. MILOJEVIC: I believe, as stated in the IR, it
3 includes labour, helicopter costs, refurbishment costs
4 for the generator filler, and AFUDC.

5 Q. While we're on AFUDC, would somebody like to just give
6 me a brief description of this term? Mr. Mollard
7 probably.

8 A. MR. MOLLARD: Certainly. AFUDC allowance for
9 funds used during construction. The principle behind
10 AFUDC is that the utility is entitled to be compensated
11 for money at risk.

14:31

12 So when we have constructed assets, we are paid
13 return on rate base, a debt to cover our debt costs and
14 to make an equity return. We do not get return on rate
15 base when we are building a project, while it is work
16 in process. So in recognition of that, the utility
17 board allows us to charge a proxy for interest to the
18 project while it's in process, until it's complete.

19 Essentially, that AFUDC, the rate is updated every
20 year and it reflects our current costs of borrowing,
21 and that is charged to the project, as I said, as a
22 proxy for interest.

14:32

23 Q. Can you tell us what the acronym stands for?

24 A. MR. MOLLARD: Allowance for funds used during
25 construction.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Q. Okay, very good. Thank you.

2 The EAM program, Table 15. Now, before this new
3 program was brought into play, did Yukon Energy have a
4 good computer system? Reliable?

5 A. MR. GAZANKAS: The existing CMMS system was out
6 of date, it was aging, as well as lacking the
7 functionality, certain modules that allow us to enhance
8 planning, scheduling, and materials maintenance
9 management.

10 Q. So where do we see the actual hardware costs?

14:33

11 A. MR. GAZANKAS: This is Gary Gazankas. So if you
12 look under the Materials, Supplies, and Inventory
13 Costs, total cost of 838,000.

14 Q. Okay, it would be under that area. Thank you.

15 And the same goes with the Enterprise system
16 software, where are these costs shown?

17 A. MR. MOLLARD: Sorry, Mr. Rondeau, what's the
18 reference?

19 Q. I'm still on the Enterprise Asset Management, Table 15,
20 where it breaks down the costs of the EAM.

14:34

21 A. MR. MOLLARD: There's no ERP cost in this
22 project.

23 Q. There's no software costs?

24 A. MR. MOLLARD: Sorry, okay, apologies. This
25 project is the purchase, configuration, and

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 implementation of a software package. So the
2 acquisition and configuration of the software would be
3 included in the contractor's line.

4 Q. Okay, thank you. 2-17, number 7, Deferred Costs, over
5 a million. I think there's that one and the next one,
6 but I will deal with this one first while we have it
7 up. These capital projects will undergo future
8 prudence tests with the Board?

9 A. MR. MOLLARD: Yes.

10 Q. And the same with number 8, Deferred Costs?

14:36

11 A. MR. MOLLARD: Yes.

12 Q. The next one is on a footnote of page -- well, wait a
13 minute, let me get the proper IR. 2-18. There's a
14 footnote on page 5 that tells us approximately 23
15 non-industrial customers on the line between Mayo and
16 Keno. Can you give us an approximate amount of
17 kilowatts that these 23 non-industrial customers use?
18 In 2020, I guess.

19 A. MR. MOLLARD: Mr. Chair, I don't believe we'll
20 have that. That 23 non-industrial customers would be a
21 mix of customers in Keno who are customers of ATCO, so
22 we wouldn't have the detail on them, and then there's a
23 number of other customers along the line. So we would
24 not be tracking the peak for that group of 23.

14:37

25 Q. 2-19, YUB-2-19. Speaking of refurbishing L lines,

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 L170, 171, and 172, can you brief us a bit on how -- on
2 where each of these lines are and their length?

3 A. MR. GAZANKAS: This is Gary Gazankas. We'll have
4 to take an undertaking on that. We don't have that
5 information at hand right now currently.

6 Q. Okay. While you're at it, please find out how much you
7 spent on these lines from 2012 to 2020. Some of this
8 would probably already be in rate base, just to get an
9 idea how much this is costing us altogether.

10 Can we have that, or is that too much?

14:39

11 A. MR. HALL: Well, Mr. Rondeau, there was a
12 prior project to replace those cross arms, insulators,
13 and some structures that was put into rate base, so we
14 could certainly find that information. It's on the
15 record already.

16 Q. Okay. As I said, it would be interesting to see how
17 much was spent on these lines, where they were, how
18 long they are, and how much it cost us. So I'd
19 appreciate that being found out.

20 A. MR. HALL: Okay.

14:40

21 UNDERTAKING - REFERRING TO THE
22 REFURBISHMENT OF L170, 171, AND 172, TO
23 ADVISE WHERE THE LINES WERE, HOW LONG
24 THEY WERE, AND HOW MUCH WAS SPENT ON
25 THESE LINES BETWEEN 2012 AND 2020

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 Q. MR. RONDEAU: YEC-2-20(a). Outage costs are
2 normally expensed as they are incurred. I realize
3 they're not predictable. Where would those costs be
4 accounted for?

5 A. MR. MOLLARD: Typically, they would be part of
6 our O&M expense.

7 Q. The next one is the headgate, WH2 headgate, YUB-2-21.
8 Now, you claim earlier that the P125 headgate
9 replacement is deferred and the WH2 headgate costs are
10 requested to go into rate base. Is that a correct
11 interpretation of what's going on?

14:41

12 A. MR. GAZANKAS: Mr. Chair, just to be clear, our
13 P125 generating facility is comprised of our three
14 Whitehorse generators, WH1, 2, and 3. Each of those
15 generators specifically have a headgate associated
16 with, and what we did was, we initially planned for
17 replacing all three headgates at once, but due to the
18 fact that we were performing our WH2 uprate, we decided
19 to specifically focus on replacing the WH2 headgate
20 this year. That's -- that's been successful. That's
21 been completed.

14:42

22 Q. Okay, thank you. EAM again. 2-24, YUB-2-24, page 1
23 of 4. If you go down to line 9, 10, 11, and 12:
24 (as read)

25 "Implementation of EAM solution is

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 expected to improve YEC's overall
2 maintenance performance and increase
3 efficiency and execution of the
4 maintenance works."

5 Can you tell us how you're going to trace and identify
6 the maintenance performance and the increase in
7 efficiency to demonstrate to us at the next GRA that you
8 are achieving these tangible benefits?

9 A. MR. GAZANKAS: It's Gary Gazankas. So the
10 tangible benefits are spelled out in the table above.
11 Those benefits were established in conjunction with a
12 third-party expert familiar with the installation of
13 CMMS systems or EAM systems with other utilities. We
14 had performed the sensitivity analysis, as you see.

14:44

15 To Mr. Rondeau's question, at this point in time
16 we haven't established those KPIs. The system went
17 live in March this year, 2021. The system is used and
18 useful. It is in service. We are currently planning
19 work, scheduling work, et cetera.

20 However, this type of -- these types of projects
21 are highly cultural in nature, meaning they can take
22 two to three or four years to become engrained in any
23 culture, and as such, because adoption is so critical,
24 we are using this year, 2021, to focus on adoption of
25 the system. Towards the end of the year, we will be

14:44

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 putting in place key performance metrics, and as part
2 of our senior strategic planning sessions, we'll likely
3 include those for 2020 and beyond.

4 So the short story is today, we haven't
5 established those KPIs or those monitoring mechanisms.
6 It is our full intention to do so, 2022, on a
7 go-forward basis.

8 Q. Thank you. 2-24, back to the Enterprise system, (g).
9 I gather -- I had asked a little bit about the software
10 costs. I guess this tells us exactly our evaluated
11 price from ABB. And what is Infor exactly?

14:45

12 A. MR. GAZANKAS: This is Gary Gazankas. Infor is
13 simply another software vendor providing the same type
14 of functionality for the software that YEC was looking
15 for. So we shortlisted with three companies
16 eventually.

17 Q. Oh, I see. These are the RFPs.

18 A. MR. GAZANKAS: Yeah.

19 Q. Very good. Understood.

20 Now, you have in Attachment 1 of 2-25 the
21 Enterprise risk management policy.

14:46

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

23 Q. Now, since this ERM policy was implemented in 2014,
24 from what I see, were all of these goals followed
25 through by your audit committee for the years 2019 and

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 2020?

2 A. MR. MOLLARD: (Unreportable sound) Yes.

3 Q. Sorry, did that leave a bad taste in your mouth?

4 A. MR. MOLLARD: Sorry. I'm having trouble with
5 the mute button. Apologies.

6 Q. No problem. YUB-2-32. Almost done. Page 4 of 4. The
7 last paragraph from line 5 to 13. It's basically on
8 DSM costs.

9 Now, will you be working with the Yukon
10 government -- I realize that Ms. Sabo asked some
11 questions on this, but will you be working with the
12 Yukon government to ensure that there is proper cost
13 benefit to each DSM program as they are to be
14 implemented by Yukon Energy?

15 A. MS. MILOJEVIC: As I stated earlier today, our
16 purpose of the work together with the Yukon government
17 will be to avoid duplication with their programs and
18 identify any areas where we can collaborate, but we
19 will be assessing the cost effectiveness of each
20 measure that we select through the utility-deployed DSM
21 program, but that would be not necessarily in
22 collaboration with the Yukon government, that would be
23 our exercise to conduct.

24 Q. Okay, thank you. What about the enter -- Energy
25 Solution Centre, will you be working with them as well?

14:49

14:50

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 A. MS. MILOJEVIC: The identification of potential
2 collaboration is with energy branch, who I believe, as
3 I understand it, runs the Energy Solution Centre, so
4 they'll be in the loop with that work.

5 Q. Is Yukon Energy pursuing a supply side management
6 program as we speak?

7 A. MS. MILOJEVIC: Sorry, Mr. Rondeau, what do you
8 mean by "supply side management program"?

9 Q. Well, ways to make your operations run more efficiently
10 in your supply of energy to your customers. I don't
11 know how else I can explain that. If you have a demand
12 side management, there should be a supply side as well
13 going with it.

14:51

14 A. MR. MOLLARD: Mr. Chair, we have done some
15 supply side stuff historically. There's no supply side
16 costs in this application, but we have done in work in
17 the past where we have gone through our own facilities
18 and looked at things like the lighting, heating systems
19 in our buildings, that thing; but, to my knowledge,
20 there's no supply side/demand side management costs in
21 this application.

14:51

22 Q. 2-32 again, it addresses DSM costs. I guess what I
23 would like to see is, is it possible to undertake to
24 clearly identify which DSM costs occurred after
25 November 1st of 2007? Or, pardon me, 2020. After the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Cross-examined by Mr. Rondeau

1 OIC, in other words. Before and after.

2 A. MR. MOLLARD: Sorry, Mr. Rondeau, to be clear,
3 did you say November or February --

4 Q. November 1st.

5 A. MR. MOLLARD: November 1st.

6 Q. November 1st. Was that not when the OIC came out?

7 A. MS. MILOJEVIC: No, I'm sorry, the OIC came out
8 February 11, 2021.

9 Q. Right. It came out in February, but the stipulation is
10 November 1st. Am I correct there?

14:53

11 A. MR. MOLLARD: Just to be clear, Mr. Rondeau, and
12 we touched on this earlier, it's not -- the OIC does
13 not say costs after November 1st, it says for
14 application, report, or other filing after
15 November 1st.

16 Q. And I believe --

17 A. MR. MOLLARD: But --

18 Q. Sorry?

19 A. MR. MOLLARD: No, nothing from here.

20 Q. Okay. I think this is the last one. YUB-2-33. I
21 believe that Ms. Milojevic already answered the
22 question from (e), how you plan on making sure there's
23 a cost effectiveness -- effective for any of the new
24 programs.

14:53

25 MR. RONDEAU: So that completes my cross.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 Thank you very much to the panel and to the Board and
2 all.

3 THE CHAIR: Thank you, Mr. Rondeau.

4 How are we doing for time? We're just about on
5 our 3:00 break time.

6 Ms. Graham, are you on deck and ready to go?

7 MS. GRAHAM: I am. Can you hear me?

8 THE CHAIR: Yes, I can hear you.

9 MS. GRAHAM: Perfect.

10 THE CHAIR: How about we take a break now and
11 let you get started -- yeah, it's 5 to 3. So ready to
12 go at 3:15, or 4:15 Calgary time?

13 MS. GRAHAM: Sounds good.

14 THE CHAIR: Okay.

15 (ADJOURNMENT)

16 THE CHAIR: Okay. Ms. Graham, are you ready
17 to go?

18 MS. GRAHAM: I am.

19 THE CHAIR: Yeah, please proceed.

20 MS. GRAHAM: Thank you, Mr. Chair.

21 **MS. GRAHAM QUESTIONS THE PANEL:**

22 Q. Good afternoon, YEC panel. My name is Jaimie Graham.
23 I'm Board counsel. I will be primarily referring to
24 three documents today. The first is the consolidated
25 IR responses to Round 1, and then the consolidated IR

14:54

15:16

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 responses to Round 2, as well as the application. I'll
2 be starting with questions on operating and maintenance
3 costs, or O&M, and then move into capital projects.

4 If you could open to the application, pdf page 54,
5 or hard copy page 3-8.

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

7 Q. Under the heading "labour rates," YEC stated that its
8 labour costs were largely influenced by collective
9 bargaining agreements, but its last agreement covered
10 the 2017-2019 period and that its agreements for the
11 2020 to '21 period had not been settled.

15:17

12 YEC also indicated that an arbitration hearing was
13 scheduled for April 2021.

14 Has the April 2021 arbitration occurred?

15 A. MR. EPP: Ms. Graham, it's Jason Epp. Yes,
16 it has occurred. It actually ended up being a
17 mediation, but it's done and completed.

18 Q. Can you provide the agreed-upon negotiated increase in
19 base pay for the 2020 and 2021 fiscal periods?

20 A. MR. EPP: Both years the increase for base
21 pay was 1.75 percent.

15:18

22 Q. What percentage of YEC employees does the labour
23 escalation apply to?

24 A. MR. EPP: The labour escalation applies to
25 all union employees. I'm not sure offhand the number.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 I think it's around 70, maybe, which would be about
2 70 percent of the employees.

3 Q. And for those employees not covered under the
4 collective bargaining agreement, what is the most
5 recently awarded labour escalation on an actual basis?

6 A. MR. EPP: So as we've done in previous
7 years, once the collective bargaining agreement is
8 finalized, YEC goes to our board and recommends the
9 same increase, and that has been approved by the board.

10 Q. What date was that escalation implemented for those
11 employees not covered?

12 A. MR. EPP: All -- the implementation of the
13 1.75 percent goes back to the date of the end of the
14 previous agreement for the collective bargaining, and
15 the management and professionals is the same. So that
16 would be January 1st, 2020.

17 Q. All right. And staying on the same page, in Table 3.4
18 of the application, YEC provided its approved actual
19 forecast and proposed full-time employees, or FTEs. So
20 my next set of questions just goes to confirming the
21 state of hires for those forecasted employees.

22 So if you could turn to pdf page 56, or hard copy
23 3-10. With respect to the communications, customer
24 billing, accounting area, can YEC confirm, first, that
25 in 2021 YEC hired a new full-time senior communications

15:19

15:19

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 advisor, resulting in a one position increase?

2 A. MR. EPP: We have not hired -- we have not
3 filled that position.

4 Q. All right. And can YEC confirm whether in 2021 there
5 was a change of a .5 position meter reader to a
6 full-time position meter reader/office administrator?

7 A. MR. EPP: Yes, that is confirmed.

8 Q. And staying on the same page, with respect to the
9 resource planning and environment area, can YEC confirm
10 first that in 2021 YEC hired a senior project manager
11 as a new full-time position?

15:20

12 A. MS. MILOJEVIC: We have not yet hired that
13 position.

14 Q. In 2021, has YEC hired a resource planning engineer for
15 a two-year term position?

16 A. MS. MILOJEVIC: Yes, we have.

17 Q. And yesterday Ms. -- sorry, how can I pronounce your
18 name?

19 A. MS. MILOJEVIC: No problem. It's Milojevic.

20 Q. Milojevic. Thank you.

15:21

21 Yesterday, Ms. Milojevic indicated that YEC hired
22 a reserve planning project manager in October 2020.
23 This is on the transcript at pdf page 145, though you
24 don't need to pull it up.

25 Can you confirm that the October 2020 hire is a

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 different position than those two 2021 positions we
2 just mentioned?

3 A. MS. MILOJEVIC: So it actually is the resource
4 planning engineer position. When we looked closely at
5 the position requirements, we determined, due to the
6 nature of the work, that a project manager, and not
7 necessarily an engineer, would be appropriate to fill
8 the role. So the title is resource planning project
9 manager that is the equivalent to the resource planning
10 engineer in the application.

15:22

11 And a small correction for me, I stated yesterday
12 that we filled the position in October 2020. That was
13 just my memory failing me. In fact, it was in
14 December 2020, just for the record.

15 Q. And turning to the next page of the application, which
16 is page -- hard copy page 3-10, or pdf 57. With
17 respect to the finance, customer billing/accounting and
18 purchasing area, can YEC confirm that in 2021, it hired
19 a procurement administrator as a new full-time
20 position?

15:22

21 A. MR. MOLLARD: Yes.

22 Q. And staying on the same page, with respect to the
23 operations area, can YEC confirm, first, there was a
24 one full-time employee position decrease in 2020 due to
25 the transfer of the manager of property and projects to

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 operations?

2 A. MR. MOLLARD: Yes.

3 Q. And, second, there was a one full-time employee
4 position increase in 2021 due to the addition of a new
5 full-time position plant operator?

6 A. MR. MOLLARD: We're going to have to take that
7 one offline and confirm. Sorry, we're gabbing out here
8 on whether we actually have staffed that position or
9 not.

10 Q. Okay. So I have that undertaking from you?

15:23

11 A. MR. MOLLARD: Yes.

12 UNDERTAKING - FOR YEC TO CONFIRM, WITH
13 RESPECT TO THE OPERATIONS AREA, THERE
14 WAS A ONE FULL-TIME EMPLOYEE POSITION
15 INCREASE IN 2021 DUE TO THE ADDITION OF
16 A NEW FULL-TIME POSITION PLANT OPERATOR

17 Q. MS. GRAHAM: And, third, there was a
18 .75 full-time employee position increase due to the
19 addition of a -- is it casual or causal and temporary
20 plant operators?

15:23

21 A. MR. MOLLARD: Yes.

22 Q. Okay. And turning to the next page, which is
23 pdf page 58, or hard copy page 3-12, with respect to
24 the engineering area, can YEC confirm, first, that in
25 2020 YEC added a new full-time position for an electric

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 engineer?

2 A. MR. GAZANKAS: This is Mr. Gazankas. Yes,
3 correct.

4 Q. And, second, there was a reduction of a .5 full-time
5 employee position effective July 1st, 2020, due to the
6 leave of an electric engineer?

7 A. MR. GAZANKAS: This is Mr. Gazankas again. Yes,
8 that's correct.

9 Q. Of the changes we've just covered, are there any other
10 actual 2021 increases or decreases in full-time
11 employee complement that the Board would not be aware
12 of based on the evidence filed or that we haven't
13 covered off in the exchange we just had?

14 A. MR. MOLLARD: I'm not sure, Ms. Graham, if we
15 covered off the vice-president First Nations relations,
16 which is on 39310. That position is also now staffed.

17 Q. Thanks for that explanation.

18 All right. I'm going to switch gears a little. I
19 provided to your counsel an excerpt of the Board's
20 2017-2018 GRA regarding contractor costs. I'm going to
21 read it into the record. Sometimes it's just easier to
22 read for yourselves.

23 So from the Board's decision on its 2017-2018 GRA
24 regarding contractor costs, in paragraphs 119 and 120
25 of Appendix A, hard copy page 25, pdf 30, the Board

15:24

15:25

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 stated: (as read)

2 "During the hearing, YEC was questioned
3 on the status of its compliance with
4 paragraph 84 from Board Order 2013-01,
5 which stated that YEC was to
6 'demonstrate in its next GRA...that the
7 complement levels approved in this
8 GRA...will have effectively reduced the
9 costs or use of outside consultants.'"

10 And then at paragraph 120: (as read)

15:26

11 "In Undertaking 27, YEC confirmed that
12 the complement level of 90 FTEs approved
13 in Board Order 2013-01 for the years
14 2013-2016 resulted in YEC being able to
15 access internal staff for activities
16 that would have otherwise likely been
17 assigned to external consultants going
18 forward. YEC prepared information
19 showing that over the period of
20 2013-2017, actual outside consulting
21 costs for capital, administration and
22 operations decreased by approximately
23 \$6.5 million for each year compared to
24 the period of 2019-2012."

15:26

25 And Undertaking 27, which is referenced in the quote I

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 just summarized, states: (as read)

2 "Undertaking to provide a listing of
3 existing positions and YEC functions
4 that they currently serve that would
5 otherwise be done by outside consultants
6 and then the labour charges related to
7 that."

8 My question is whether YEC can take a similar
9 undertaking now; that is, to provide the same
10 information as given in the response to Undertaking 27,
11 but for the years 2018-2020, demonstrating that the
12 increases to the complement levels proposed in 2021 will
13 have effectively reduced the costs or use of outside
14 consultants?

15:27

15 A. MR. MOLLARD: Yes, we can do that.

16 UNDERTAKING - TO PROVIDE THE SAME
17 INFORMATION AS GIVEN IN THE RESPONSE TO
18 UNDERTAKING 27 FROM THE 2017-2018 GRA
19 PROCEEDING, BUT FOR THE YEARS
20 2018-2020, DEMONSTRATING THAT THE
21 INCREASES TO THE COMPLEMENT LEVELS
22 PROPOSED IN 2021 WILL HAVE EFFECTIVELY
23 REDUCED THE COSTS OR USE OF OUTSIDE
24 CONSULTANTS

25 Q. MS. GRAHAM: All right. I'm going to move to

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 diesel rental costs. If you could return to the
2 application, pdf page 22, hard copy page 1-8.

3 A. MR. MOLLARD: Okay, we're there.

4 Q. Under the heading "Peak Capacity" in Footnote 5, YEC
5 forecasts the need for two spare units during the test
6 period, and I know there's been just some discussion of
7 the two spares in the last few days.

8 If you could open also the consolidated IR
9 responses Round 1, pdf page 434, which is the response
10 to NY-YEC-1-1.

15:28

11 So in responses to sub (b), (c), and (d), YEC
12 provided an explanation for its decision to rent and
13 install spare units, the purpose of the rentals and how
14 service and maintenance is handled with the supplier.
15 And YEC's response indicated there's some limited
16 availability of the units.

17 In part (d) specifically, on the first line
18 there's a reference to unit unavailability for service.

19 What does that mean in relation to the two spare
20 units that YEC says are required?

15:30

21 A. MR. MOLLARD: As I understand it, the report is
22 not specific to the spares; it just covers the entire
23 fleet in terms of what's available and what's not. So
24 this was -- this was a process that YEC implemented
25 when we recognized in prior years that we were having

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 certain reliability issues. So we created this process
2 so that the vendor could be notified immediately when
3 there was an issue so that they could address it. So
4 it was -- it was a process set up in an attempt to try
5 and improve the reliability.

6 Q. And staying in that same IR response in part (a), YEC
7 provides a breakdown of the 3.8 million in diesel
8 rental costs, in Table 1, diesel rental cost summary.

9 Can you walk me through how YEC came up with these
10 costs, either by location of unit or on a per unit
11 basis or based on some other metric?

15:30

12 A. MR. EPP: Jason Epp. The costs are as per a
13 contract that was in place at the time for the winter
14 2020/2021 season, and then we basically forecast the
15 December period of 2021 that wasn't covered by that
16 contract to be the same cost as what was in the
17 existing contract. And the contract is broken down by
18 generators, transformers, fuel tanks, and it is -- the
19 contracts -- there's actually two contracts, one for
20 the Faro location and one for the Whitehorse location.

15:31

21 Q. So I didn't hear in some of the factors you mentioned
22 anything about location. Would any of the costs differ
23 based on whether the unit was at Faro versus at
24 Whitehorse?

25 A. MR. EPP: Yes, there is a separate contract

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 for each location, and the specific number of the
2 contract for each location has the generator, all the
3 costs broken down by location.

4 A. MR. MOLLARD: So, just to expand on that a bit.
5 So, certainly, delivery fees would be somewhat
6 different for the Faro location being several
7 hundred kilometres further north than Whitehorse. As
8 well, the costs of the generators provided in Faro were
9 somewhat higher than they are in Whitehorse. The
10 Whitehorse location, we did a three-year RFP to
11 establish a longer term contract and hopefully get
12 better pricing. So the supplier was bound by that RFP
13 result to provide us with generators at a certain cost.

15:32

14 When we discovered the -- that our N-1 gap was
15 considerably higher than we thought it was in early
16 2020, and we approached our supplier about those
17 additional seven units, they had to go a bit further
18 afield to find those units, they sourced them out of
19 Alaska, they sourced them out of eastern Canada. So
20 there was higher unit costs for the Faro rental units
21 based on that.

15:33

22 Q. And you mentioned an RFP. Were all the parts subject
23 to a competitive tendering process?

24 A. MR. MOLLARD: The Whitehorse location, the ten
25 units for the Whitehorse location was covered by the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 RFP.

2 Q. But not the Faro location?

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

4 Q. If you could open up those consolidated IR responses
5 for Round 2, pdf page 92, which is YUB-YEC-2-3 sub (a).

6 And if I ever -- I kind of take when you look up
7 that you're at the page. So if I'm ever speaking and
8 you're not there, just let me know.

9 So it says, starting at line 26: (as read)

10 "The primary purpose of diesel rentals
11 is to address the N-1 dependable
12 capacity shortfall. For this purpose,
13 YEC expects the rental units to be idle
14 the vast majority of the time. However,
15 based on experience and given certain
16 favourable contract terms, YEC does not
17 expect these units to be idle if diesel
18 generation is required on the YIS."

19 Is it fair to say the 17 diesel rental units ultimately
20 create idle capacity on the Yukon Integrated System to
21 ready (phonetic) in operations during an N-1 event?

22 A. MR. HALL: Well, the rental units are part of
23 the overall system solution to provide enough
24 dependable capacity to meet a load under an N-1. The
25 use of the word "idle" is -- you know, I'm not sure it

15:34

15:35

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 adds a lot more colour to the analysis. The primary
2 driver of those rentals is so we can meet N-1 peak --
3 you can during an N-1 situation.

4 Q. And in part (b) of that IR response, YEC indicates that
5 two spare units provide backup for the remaining rental
6 units. The remaining rental diesels are the 15 units
7 referenced in that same -- oh, wait -- referenced in
8 page 87 of that document, which is IR YUB-YEC-2-1,
9 parts (a) and (d); is that right?

10 A. MS. MILOJEVIC: Yes, that's correct.

15:36

11 Q. It appears YEC is concerned that two of the 15 diesel
12 rental units could fail in an N-1 event scenario, which
13 is why it has two backups; is that right?

14 A. MS. MILOJEVIC: Yes. As I believe Mr. Mollard and
15 Mr. Hall mentioned before, given the reliability seen
16 on the units early in the days of renting, they felt it
17 was prudent to -- will we need 15 generators to cover
18 the N-1 dependable capacity, to have one spare at each
19 site, one at Whitehorse and one at Faro, to ensure we
20 would have the capacity from those units if needed
21 during an N-1 event.

15:37

22 Q. If there was an N-1 event, why would you need one at
23 Faro and one at Whitehorse versus just having one at
24 Faro? Can you explain why having two in two different
25 locations is required?

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 A. MS. MILOJEVIC: Sorry, Ms. Graham, could you just
2 repeat the question for me, please?

3 Q. Sure. So if there's one spare at Faro, why wouldn't
4 that be reasonable just to have one spare at Faro and
5 rely on that one spare? Why do you need two spares at
6 two different locations? Can you walk me through the
7 benefit of that action?

8 A. MS. MILOJEVIC: Yes. So the reason for having a
9 spare at each site is that, if you are in an N-1
10 emergency, you need to be able to connect the
11 generators generation immediately because you're
12 assuming that's happening during the coldest point of
13 the year during the system peak.

15:38

14 So you wouldn't be able to transport a generator
15 from Faro, Whitehorse, or vice versa. So you would
16 want one spare at each site so that if there was a unit
17 that couldn't come online at either of the sites,
18 you're able to respond immediately with your spare.

19 Q. Yesterday in exchange between Mr. Rutherford and
20 Ms. Milojevic -- I apologize. I'm just tripping over
21 that letter and I apologize -- you indicated the
22 levelized cost of capital of diesel rentals was similar
23 in magnitude when compared to diesel purchases.

15:38

24 Do you recall that exchange and if that statement
25 is correct? The transcript reference is pdf page 34 if

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 you need to bring it up.

2 A. MS. MILOJEVIC: I do recall the exchange, yes, and
3 it is correct. I think in that exchange I was
4 referring to an IR response in the Round 2 IRs, so in
5 Exhibit B-27, and it's on pdf page 13 and 14 of that
6 exhibit, where we compare the levelized cost of
7 capacity of the diesel rentals compared to a permanent
8 12.5 megawatt diesel option. And as we discussed
9 yesterday, the rental levelized cost of capacity costs
10 are in line with that of a permanent, which I believe
11 is what I was referring to yesterday.

15:40

12 Q. And I also understand that YEC has not pursued diesel
13 purchase as an option to address the N-1 dependable
14 capacity shortfall, in part, due to green generation
15 initiatives; is that correct?

16 A. MR. HALL: We have not pursued construction
17 of a new greenfield diesel plant.

18 Q. Due in part to green generation initiatives?

19 A. MR. HALL: Well, I mean, I think the reason,
20 which we discussed yesterday, was our 10-year renewable
21 plan outlines a multiyear strategy to closing this
22 dependable capacity gap and it relies upon the
23 development of resources that are either currently
24 under development or will be in the future such that,
25 you know, the requirement for diesel rentals will be

15:40

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 temporary.

2 And so, you know, given that long-term plan, there
3 was no place for a permanent diesel plant in the plan.

4 Q. Did YEC consider the potential purchase and later sale
5 of diesel-generated units as an option to address the
6 N-1 dependable capacity shortfall on a short-term
7 basis?

8 A. MR. HALL: No.

9 Q. Why not?

10 A. MR. MOLLARD: Mr. Chair, I think we've touched
11 on this a couple of times. We didn't -- we didn't see
12 hiring rental units as an economic or reliable choice
13 for the utility. We have -- well, frankly, it's no
14 similar to rental cars. If you want something
15 reliable, you might not want something that's in a
16 rental fleet because they tend to have a pretty hard
17 life.

18 So, as we've talked before, the rentals don't come
19 to us set up for utility operation, and generally
20 speaking -- and the vendor has admitted this to us --
21 those units have a pretty rough life. So to bring them
22 in and use them in that fashion, to us, didn't seem to
23 make sense as a longer term solution; and, frankly, the
24 vendor did not make an offer of sale at all. Some of
25 the units aren't even owned by the Finning dealer that

15:41

15:42

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 we deal with, they're owned by other Finning
2 dealerships.

3 So there was a lot of complexities around how
4 those assets are owned and they're set up that we
5 didn't really -- just didn't feel that was a realistic
6 solution for us.

7 A. MR. HALL: I think, if I might add, the other
8 challenge with that approach that you're suggesting
9 would be, we'd have no way of validating the sale price
10 at the end. So it would be a very hard economic
11 picture to paint with any certainty because you don't
12 know what you can sell them for, you know, six, seven
13 years down the line.

15:43

14 Q. And you mentioned Finning in your response. Is that
15 the only vendor you looked at or that you received
16 diesel -- that you purchased diesel units from?

17 A. MR. MOLLARD: Well, we didn't solicit purchase
18 prices from anybody per se. We've done two tenders
19 of -- for these rental units, and the current vendor,
20 Finning, won that -- both of those quite handily. The
21 numbers from the other vendors were quite high.

15:43

22 So -- but that demonstrates to us as well that
23 there's a very limited market for these types of units.
24 So to even -- to even be able to find, as Mr. Hall
25 mentioned, some comparable pricing would be a pretty

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 **big challenge for us.**

2 Q. And I understand that some of the diesel units have
3 retired from service in the past few years. Did YEC
4 explore purchasing new diesel units at all or is the
5 response just referencing the 10-year renewable plan in
6 some of the response you've just provided?

7 A. MR. HALL: I think Ms. Milojevic touched on
8 this yesterday, but there is what's referred to as the
9 diesel replacement project, which is currently in WIP.
10 But that project's specifically intent is to add back
11 12.5 megawatts of diesel capacity to replace capacity
12 that's retired, or expected to retire, over the next
13 few years.

15:44

14 Q. Right. I guess I just -- we're renting some now, so
15 when -- I understand some diesel units have retired
16 from service in the past few years. Was there an
17 examination of whether those -- there would be a
18 purchase? I understand we're renting right now, so I'm
19 just interested in knowing whether, you know, there was
20 a look at pricing at the time, if you did consider
21 purchasing and you decided to go with renting.

15:45

22 A. MS. MILOJEVIC: As Mr. Hall said, we have the
23 project currently in WIP for the diesel replacement.
24 That does include the design and purchase of new units
25 to replace the previously retired units, as well as

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 units that are scheduled to be retired. So the project
2 to acquire new diesel generation to replace those
3 retired units is underway.

4 Q. I'm going to move topics to brushing. So in the
5 consolidated IR responses Round 1, this is at
6 pdf page 128, IR CW-YEC-1-18, line 34.

7 So here YEC states that the distribution portion
8 of its brushing costs was less due to the transmission
9 line refurbishment work and a requirement to prioritize
10 the brushing on the transmission system where the work
11 was to take place. And I know there was a discussion
12 with Mr. Rutherford about this yesterday.

15:46

13 In that exchange between Mr. Mollard and
14 Mr. Rutherford, Mr. Mollard indicated that YEC had a
15 multiyear project to refurbish the 138-kV transmission
16 line and the project caused the re-prioritization.

17 We couldn't quite hear what period of time that
18 project was underway. So could you confirm the time
19 frame that the brushing prioritization occurred and
20 whether that's been completed?

15:47

21 A. MR. MOLLARD: So, absolutely. The project is
22 completed. This was -- actually, we just covered it
23 with Mr. Rondeau when we were talking about
24 transmission line refurbishment, and the project was on
25 the lines L170 to -- there's three -- anyways, there's

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 three line segments that were refurbished over two
2 years, I believe, three years, and that work is now
3 complete and is in this application for approval and to
4 rate base.

5 Q. Okay. So the project completed in 2021?

6 A. MR. MOLLARD: My memory is failing me a little
7 bit here. I believe that those three segments of line
8 were done two years ago, subject to check.

9 Q. Okay. So 2019?

10 A. MR. MOLLARD: Correct.

15:48

11 Q. Are there any other projects in the test period, due to
12 prioritization, would have a similar impact on varying
13 either the distribution or transmission brushing
14 forecasts?

15 A. MR. MOLLARD: Not to my knowledge, no.

16 Q. Also in the exchange yesterday between Mr. Mollard and
17 Mr. Rutherford, Mr. Mollard referenced external
18 brushing costs. So just for the record, external in
19 this context means external to YEC; correct?

20 A. MR. MOLLARD: That is correct.

15:48

21 Q. And I believe you indicated that in 2019, one crew won
22 all the segments that were tendered through a
23 competitive process. Was the crew external that was
24 chosen, external to the Yukon territory?

25 A. MR. MOLLARD: Yes.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 Q. Okay. I'm going to move to the reserve for injuries
2 and damages. Also in the IR responses Round 1
3 consolidated, at pdf page 727, which is NY-1-16, YEC
4 identified positive and negative effects of COVID-19 on
5 its financial position, net income, and cash flow.

6 And then if you open the consolidated for Round 2,
7 at pdf 111, part (a), YEC states that an additional
8 2020 costs related to COVID-19 are proposed to be
9 recovered through YEC's RFID accounts in the amount of
10 .073 million.

15:50

11 And then in part (c) of the response, YEC
12 indicates that savings from reduced travel costs for
13 YEC employees related to COVID-19 are not reflected in
14 the 2020 RFID forecast.

15 So given there are both cost increases and
16 decreases to YEC associated with COVID 19, can you help
17 me understand why ratepayers should pay for YEC's costs
18 caused by COVID but not benefit from the savings?

19 A. MR. EPP: Jason Epp. I guess the thing I
20 want to highlight is what costs are identifiable,
21 specifically identifiable. As we said in our response
22 in (c) there, yes, there was a decrease in travel, but
23 we can't specifically add it up and say, well, this
24 dollar amount was specifically reduced because of
25 COVID.

15:51

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 So the RFID account uses specifically identifiable
2 costs.

3 And, to be clear, there are more likely than not
4 other costs that we incurred from COVID that we did not
5 include in RFID as well, just they aren't as
6 specifically identifiable. So we have both
7 unidentifiable positives and negatives due to COVID not
8 in RFID.

9 Q. I'm just wondering how you, like, identify -- is it
10 just because it's an action that wasn't taken for
11 travel costs? You know, say a conference was cancelled
12 due to COVID? There's just no way to track the
13 savings? Can you just kind of explain that a bit to
14 me?

15:51

15 A. MR. MOLLARD: It would -- that would be a
16 reasonable example. Certainly training was something
17 that was virtually wiped out. Training travel was
18 virtually non-existent from March 2020 on. There could
19 also be an impact, although it's pretty hard to really
20 identify, you know, travel for -- we have locations
21 across the territory. So travel by staff to
22 communities would be a normal thing, and -- I mean, I
23 can say anecdotally there was less than there would
24 normally be, but I couldn't tell you how much of that
25 travel was cancelled solely because of COVID.

15:52

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 A. MR. EPP: And just to add to that, just
2 because we cancelled a training course due to travel
3 does not mean we did not spend that money on training.
4 For example, I was able to probably attend more
5 training classes due to virtual training classes that
6 were then added.

7 Q. All right. I'm going to move to the defined benefit
8 pension deferral account. So this is in the
9 application, pdf page 75, lines 1 to 7.

10 So YEC is proposing a new deferral account for its
11 defined benefit pension costs that would capture
12 variances in contributions to the pension plan,
13 included in test year revenue requirements as a result
14 of the required annual actuarial evaluations.

15 What is the driver for YEC seeking approval for
16 this new deferral account? In other words, what's
17 changed? It wasn't required before but it's required
18 now.

19 A. MR. MOLLARD: Basically this is just a fairness
20 across the utilities in the Yukon. We know that
21 ATCO Electric Yukon has a similar plan and we became
22 aware of -- that they had a deferral account when they
23 last filed -- late '15 I think was their last test
24 year. We missed it in the '17 application. We were
25 intending to apply for it at that time, but we missed

15:53

15:54

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 it in that application so it was deferred to this one.
2 So again, it's just a fairness. It's a risk management
3 tool that's being paid for for the other utility in the
4 Yukon, so we felt it was fair to request it for our
5 plan as well.

6 Q. So if ATCO Electric didn't have it, would YEC still be
7 applying for it or was that really the motivator to
8 have something similar that ATCO Electric has?

9 A. MR. MOLLARD: Yeah, I would say it's a two-part
10 thing. I think we have historically had some
11 volatility in our results and it, frankly, never
12 occurred to us that we should be applying for a
13 deferral account. After reviewing the evidence that
14 ATCO put on the record, we thought, well, this is the
15 same risks that we face so we should be entitled to a
16 similar type of regulatory device.

15:55

17 Q. Would borrowing approval of the deferral account reduce
18 YEC's risk to the extent that a risk reduction should
19 be extended to YEC's return on equity?

20 A. MR. MOLLARD: I would not say it's...

15:55

21 It hasn't historically put us, you know, as a
22 going concern risk. It's not -- it's not that big of a
23 risk that my ability to operate is compromised, but I
24 would argue that, based on the rules that we're
25 required to follow by AUSTI (phonetic), it falls in the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 category of cost items that I cannot reasonably
2 control, which in Canadian utility regulation is kind
3 of, by definition, where this type of a device, a
4 regulatory deferral account is used to manage that
5 risk.

6 Q. Okay. And in your view, is there -- are those the
7 factors that you consider that might trigger a review
8 of the return of equity or is there a specific, like,
9 quantum or percentage reduction of risk that would
10 trigger it?

15:56

11 A. MR. MOLLARD: You know, in my time in front of
12 this Board, we have never looked at risk at that level.
13 Typically we're looking around the nature of our
14 operations, vertical integration, isolation
15 geographically, but factors like our -- you know, like
16 a benefit plan for an employee, we've never assessed
17 risk at that level historically.

18 Q. All right. I'm going to move to the hearing costs
19 reserve account. So this is in the application at
20 pdf page 69 or hard copy 3-23.

15:57

21 So YEC shows an annual appropriation or accrual of
22 hearing costs of 55,000 per year. However, YEC has not
23 forecast costs in the test year. Because it doesn't
24 improve -- anticipate any costs related to the current
25 hearing, the GRA will be approved until after the 2021

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 test period.

2 When YEC incurs legal costs in connection with
3 appeals of Board decisions, are those paid by the YEC
4 shareholder or are those recovered through the revenue
5 requirement?

6 A. MR. EPP: The hearing reserve account.

7 Q. That amount includes appeals, like the court system?

8 A. MR. MOLLARD: Yes.

9 Q. Can you show me where those costs are identified in the
10 application? For example, through a USA account or a
11 specific IR response? In other words, are they, you
12 know, itemized or is there a specific USA account that
13 would show the appeal costs on a more granular level?

15:58

14 A. MR. MOLLARD: To our knowledge, we did not
15 provide that breakdown in the application or in any of
16 the supporting evidence.

17 Q. Okay. What USA accounts are they recovered through?

18 A. MR. MOLLARD: We're not specifically using USA
19 accounts per se. We can go in and look at what the
20 costs were that were added in and give you that
21 breakdown by proceeding, if that's helpful. I'm trying
22 to understand what you're looking for there.

15:59

23 Q. Yeah, I think at a high level I'm just trying to
24 understand, you know, where these -- where the appeal
25 costs are located --

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 A. MR. MOLLARD: Sure.

2 Q. -- you know, within the application. I think what I
3 hear you saying is they are in the hearing cost reserve
4 account, but that's just a rolled-up number and
5 that's --

6 A. MR. MOLLARD: Yeah.

7 Q. -- the level of granularity that's being provided.

8 A. MR. MOLLARD: Yeah, they would be buried in that
9 annual cost line.

10 Q. Okay. Why are YEC's legal costs in relation to appeals
11 of Board decisions properly in revenue requirement?

12 A. MR. MOLLARD: Well, it is -- in my mind, it is
13 part of the regulatory process and, therefore, it
14 should be paid for the same as the costs of the
15 application and defence of the application.

16 Q. Should it matter if YEC is successful or not in the
17 appeal in relation to other ratepayers pay costs
18 through the revenue requirement?

19 A. MR. MOLLARD: I honestly take no position on
20 that. It's entirely at the Board's discretion as to
21 what gets paid through that account or not.

22 Q. All right. I'm going to move to accelerated
23 amortization of the VGC Group contribution to the
24 McQuesten substation.

25 So this is in the consolidated IR responses for

16:00

16:00

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 Round 1, pdf page 2859. So it's a big document. IR
2 response YUB-YEC-1-110. And I'll actually turn you to
3 page 2860, which has the response to part (a).

4 Before I ask my question, I would just like to --
5 Mr. Mollard, I know I just asked you about the appeals.
6 I'm going to request an undertaking. If you could
7 break the costs down between the appeals and the other
8 categories of hearing costs charged to the hearing
9 costs reserve account for the last two years.

10 A. MR. MOLLARD: '19 and '20?

16:02

11 Q. That's correct.

12 A. MR. MOLLARD: Will do.

13 Q. Thank you very much.

14 **UNDERTAKING - TO PROVIDE A BREAKDOWN OF**
15 **THE COSTS BETWEEN THE APPEALS AND THE**
16 **OTHER CATEGORIES OF HEARING COSTS**
17 **CHARGED TO THE HEARING COSTS RESERVE**
18 **ACCOUNT FOR 2019 AND 2020**

19 Q. MS. GRAHAM: So turning to pdf page 2860 on the
20 subject of accelerated amortization.

16:02

21 So in this response, YEC indicated that the
22 VGC Group's contribution towards the McQuesten
23 substation and system improvement costs were
24 10.7 million and .8 million respectively and totalled
25 11.5 million.

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 YEC also indicated that the 11.5 million in assets
2 was capitalized into YEC's substation account.

3 Can you identify the account number, name, and
4 average service life and Iowa curve for the McQuarren
5 (verbatim) substation assets?

6 A. MR. EPP: Mr. Chair, Ms. Graham, I'll refer
7 you to the application document Tab 7, and I'll just
8 try and find the pdf number for you. It's going to be
9 Schedule 3, maybe. Pdf page 217 of the application.

10 Q. I'm there.

16:04

11 A. MR. EPP: Okay. I believe subject to check
12 it's under the main transmission category of substation
13 equipment.

14 Q. Okay. We thought it might be substation building, but
15 it's substation equipment potentially. I think,
16 according to this, the depreciation rate between
17 equipment and building, equipment is 54 and building is
18 55. So it's pretty similar, but it's equipment; is
19 that correct?

20 A. MR. EPP: That's my understanding, yes.

16:05

21 Q. Okay. And can you confirm the costs of the McQuesten
22 substation is 11.5 million?

23 A. MR. MOLLARD: I believe the total cost,
24 Ms. Graham, was slightly higher. So the \$11.5 million
25 does not include the cost to make the substation

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 compatible with a 138-kV system if you so choose to
2 switch over in the future.

3 Q. All right. And for equipment, is the Iowa curve -- can
4 you just point out the Iowa curve for me as well,
5 please?

6 A. MR. MOLLARD: We'll have to undertake to get
7 that to you, Ms. Graham.

8 Q. Okay. As part of that undertaking, again, could you
9 include the account name -- account number, name, and
10 average service life and Iowa curve for the substation
11 asset in the response?

12 A. MR. MOLLARD: Okay, we got it.

13 Q. All right.

14 UNDERTAKING - IN RELATION TO THE
15 CONSOLIDATED IR RESPONSES FOR ROUND 1,
16 PDF PAGE 2860, TO ADVISE OF THE ACCOUNT
17 NUMBER, NAME, AND AVERAGE SERVICE LIFE
18 AND IOWA CURVE FOR THE SUBSTATION ASSET

19 Q. MS. GRAHAM: So we understand from parts (d)
20 and (e) of the IR response, which is YUB-YEC-1-110,
21 that YEC is proposing to amortize VGC Group's
22 approximately 11.5 million contribution related to the
23 McQuesten substation over the 12-year life of the
24 Eagle Gold mine; is that right?

25 A. MR. MOLLARD: I'm going to qualify that a little

16:06

16:06

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 bit, Ms. Graham. The intention when we entered into
2 this project would be that that contribution would
3 match the asset life so that it would be drawn down
4 together.

5 Subsequent to that, when we got audited, our
6 auditors told us under International Financial
7 Reporting Standards that the amortization must be tied
8 to the life of the mine. So that was their direction
9 and so we had to make that change.

10 This is where sometimes how everybody else
11 accounts for things is somewhat different from how a
12 utility does things.

13 So in our legislation it states that we had should
14 use normal accounting principles for utilities in
15 Canada. And this is a place where a board might grant
16 an exception to the accounting rules such that we're
17 allowed to meet the policy objective in this case to
18 make sure that the costs of those contributions are
19 tied to the asset so that that benefit carries out
20 through the life of the substation asset as opposed to
21 getting burned up in 12 years.

22 Q. Did your auditors pinpoint to a specific section of an
23 IFRS-related publication in terms of providing YEC with
24 that direction?

25 A. MR. MOLLARD: They may have. I don't have that

16:07

16:08

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 history at my fingertips. That goes back a couple of
2 years now. But I can check our records to see if we've
3 got a section number for you.

4 Q. That would be helpful, if you could undertake to do so.

5 UNDERTAKING - REFERRING TO YEC'S
6 PROPOSAL TO AMORTIZE VGC GROUP'S
7 APPROXIMATELY 11.5 MILLION CONTRIBUTION
8 RELATED TO THE MCQUESTEN SUBSTATION
9 OVER THE 12-YEAR LIFE OF THE EAGLE GOLD
10 MINE, TO ADVISE WHICH SPECIFIC SECTION
11 OF AN IFRS-RELATED PUBLICATION THE
12 AUDITORS POINTED YEC TO

16:06

13 Q. MS. GRAHAM: Can you walk me through the
14 history of the McQuesten substation and just describe
15 the relation between the substation and the Eagle Gold
16 mine?

17 A. MR. HALL: So the McQuesten substation is a
18 requirement to connect the Eagle Gold mine. So the
19 mine pays for the spur line that runs from the mine
20 site to the substation and the substation itself.

16:09

21 Q. And in terms of timing, were they -- both projects
22 being built at the same time? Did one come before the
23 other? Just anything on the -- how integrated they
24 are.

25 A. MR. HALL: I can't recall exactly. I mean,

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 they both would have been required to connect the mine,
2 so they would have been ultimately driving towards the
3 same schedule, but I believe, you know, the spur line
4 may well have been constructed earlier, but not
5 materially so.

6 Q. And I understand that the substation also serves some
7 residential customers; is that right?

8 A. MR. HALL: No.

9 Q. It just serves Eagle Gold mine?

10 A. MR. HALL: That's right. I mean, the line
11 serving north passes through the substation, but the
12 substation itself, its purpose is to, you know, serve
13 the mine.

16:09

14 A. MR. MOLLARD: So the existing line goes from the
15 Mayo generating station all the way to Keno, and
16 McQuesten is about 20 or 30 clicks along the way, but
17 the line goes through the substation and continues on
18 to serve those other customers, including the Alexco
19 mine. There's nobody off the spur line but the mine
20 going to the site.

16:10

21 Q. Okay. So if the Eagle Gold mine ceased operations in
22 12 years, would the McQuesten substation still be in
23 use and useful asset? Would it still be serving any
24 other customers?

25 A. MR. HALL: I think it's important to note

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 that the -- that would depend on what other customers
2 were on the line north of the substation, so I don't
3 think you can really make that determination now.

4 Q. Okay. But from what I understand from what Mr. Mollard
5 was saying, that, YEC's preference or initial thinking
6 was that the amortization would be over the course of
7 the mine because the substation was primarily or fully
8 just serving the mine; is that right?

9 A. MR. MOLLARD: So the shortened amortization for
10 the contribution was based on publicly available
11 information at the time. So they told us what they
12 thought their mine life would be.

16:11

13 Regardless, it's used and useful now, and I
14 believe they are continuing with exploration and there
15 is intentions to expand that mine life by an
16 additional, probably, ten years. So, really, it's
17 difficult to say today with any kind of certainty how
18 long that mine is truly going to be there. The 12
19 years is what is published that we know of.

20 Q. I would like you to open Rate Schedule 39 dated
21 May 23rd, 2021, and I believe it's a separate document
22 as an exhibit number. Let me see if I can pull the
23 number.

16:12

24 A. MR. MOLLARD: Unfortunately, Ms. Graham, it
25 doesn't appear we have that exhibit. I think --

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 Q. Go ahead.

2 A. MR. MOLLARD: -- it's B-10?

3 Q. Yes, I think that's correct, yeah.

4 A. MR. MOLLARD: Yeah, sorry --

5 Q. Apologies.

6 A. MR. MOLLARD: Yeah. We don't have it --

7 Q. That's all right. That's all right. And if you could
8 also open the application pdf pages 11-10 to 11-12,
9 which is Appendix 4.3, at pages 4.3-4 or 4.3-5 and
10 4.3-6.

16:14

11 MR. LANDRY: Ms. Graham, I wonder if I could
12 just ask a question. I think that's the second exhibit
13 that I haven't been able to find on the website. As
14 you can imagine, going virtually, I'm trying to find
15 everything on the website. For this exhibit, who
16 entered that onto the record? Do you know?

17 And, by the way, we can discuss this offline. I'm
18 just trying to find it. So that's part of my issue,
19 but I'm just wondering how that got onto the record,
20 that's all. But we can deal with that later,
21 Ms. Graham.

16:14

22 MS. GRAHAM: For sure. I'm going to have to
23 get some help for that. I'm not exactly sure either.
24 It's not on the top of my head and --

25 MR. LANDRY: I didn't mean to interrupt, but

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 just out of interest because I was looking for it -- I
2 think I've found it now, but --

3 MS. SABO: Yeah. I think if it's
4 Exhibit B-10, that would have been YEC, right, because
5 it's Rate Schedule 39. Have I got that right?

6 A. MR. MOLLARD: I believe it was a separate filing
7 that we did this spring.

8 MS. SABO: That's correct. Thank you for
9 that response.

10 MR. LANDRY: So as I understand that, Ms. Sabo,
11 a separate filing that was made by Yukon Energy is now
12 a part of the record on the GRA? Is that... It's
13 really just a question how this got on the record,
14 really is what I was wondering, to be honest, and we
15 can talk about that later --

16:15

16 MS. SABO: Yeah. Like I say, it's on the
17 exhibit list as B-10. So, yeah, Mr. Landry, if we want
18 to do some sourcing, that's fine, later on.

19 MR. LANDRY: Thank you.

20 Q. MS. GRAHAM: All right. So I understand you
21 don't have it before you, but I'm really just
22 interested in knowing if the rate schedule and the
23 Appendix 4.3 tables would be reflective of, I believe,
24 the 54-year service life, Mr. Mollard, that you just
25 mentioned -- or, sorry, another of the YEC witnesses

16:16

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 confirmed at a 12-year amortization period for the
2 associated contribution.

3 A. MR. MOLLARD: Yes. So the amortization being
4 applied to the McQuesten substation costs is 54 years,
5 and the amortization being applied to the contribution
6 is 12.

7 Q. Could you undertake to restate Rate Schedule 39 and the
8 Appendix 4.3 tables so that they have a matching
9 54-year service life and, I guess, 54-year amortization
10 for the VGC Group, all else being equal?

16:17

11 A. MR. MOLLARD: Sorry, can you repeat that,
12 Ms. Graham? I'm not exactly clear. You want me to
13 look at Rate Schedule 39 and Schedule 4.3 and reconcile
14 the amortization of the equipment to 54?

15 Q. Sure. So we're interested in understanding what Rate
16 Schedule 39 would look like if it was matching --

17 A. MR. MOLLARD: Oh, yes, okay.

18 Q. -- so we're asking if it could be restated --

19 A. MR. MOLLARD: Okay. So, right now -- right now,
20 the contributions are being amortized at 12 years, what
21 I'm going to do is do a schedule for you that says the
22 contribution is being amortized for 54 years; what's
23 the difference.

16:18

24 Q. Yeah. So we'd have the Rate Schedule 39 and the
25 Appendix 4.3 tables with a matching service life of the

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 substation with the amortization of the contribution.

2 Does that make sense?

3 A. MR. MOLLARD: I understand the request now. We
4 will do that for you.

5 Q. Okay. And in the response, can you note any changes to
6 the fixed charge in Rate Schedule 39 that may result
7 due to the restatement?

8 A. MR. MOLLARD: You would like me to highlight
9 those numbers that change as a result of this analysis?

10 Q. Yes.

16:18

11 A. MR. MOLLARD: Can do.

12 **UNDERTAKING - TO RESTATE RATE**
13 **SCHEDULE 39 AND THE APPENDIX 4.3 TABLES**
14 **SO THAT THEY HAVE A MATCHING 54-YEAR**
15 **SERVICE LIFE AND 54-YEAR AMORTIZATION**
16 **FOR THE VGC GROUP**

17 Q. MS. GRAHAM: And I would also like to ask for
18 the same undertaking if you matched Rates Schedule 39
19 and amortization for 12 years.

20 A. MR. MOLLARD: Understood.

16:19

21 Q. With also any -- highlighting any of the change to the
22 fixed charge in Rate 39 (verbatim) that may result from
23 the restatement.

24 A. MR. MOLLARD: Yes, we will do that.

25 **UNDERTAKING - TO RESTATE RATE**

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 **SCHEDULE 39 AND THE APPENDIX 4.3 TABLES**
2 **SO THAT THEY HAVE A MATCHING 12-YEAR**
3 **AMORTIZATION FOR THE VGC GROUP**

4 Q. MS. GRAHAM: Staying in the consolidated IR
5 responses for Round 1, YUB-YEC-1-110, pdf page 2863,
6 responses part (d) and (e), YEC states that how it
7 amortizes contributions for the McQuesten substation is
8 similar in treatment to the approach taken in the Minto
9 mine context.

10 Can you describe any similarities or differences
11 between the Eagle Gold mine and the Minto mine that may
12 be relevant to contributions or amortization of
13 contribution under IFRS?

16:19

14 A. MR. MOLLARD: They're essentially the same.

15 Q. And can you confirm for me that there's no requirement
16 for YEC to follow IFRS for rate making purposes with
17 respect to amortizing contributions?

18 A. MR. MOLLARD: Sorry, in the absence of a
19 specific direction from this Board, I am obligated to
20 follow IFRS.

16:20

21 Q. Okay. I'd like to talk a little bit about Minto
22 mine -- and I'm aware we only have about ten minutes
23 for close, so I'll just ask a couple of more questions,
24 and then I have another topic anyway, so it might be a
25 good time to close -- staying in the consolidated IR

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 responses for Round 1 at pdf pages 3245 and 3246, this
2 is YUB-YEC-1-127 sub (c). The Board's question noted
3 that the capital asset account that is needed by
4 "Mnt MN" was being amortized on the basis of a 12-SQ
5 life curve -- life and curve."

6 And in the part (c) response YEC indicated that
7 the 12-year service life was determined in accordance
8 with IFR request requirements. Does that mean that
9 IFSR -- IFRS requires the assets have an equal -- life
10 equal to the life of the mine?

16:21

11 A. MR. MOLLARD: Subject to check, Ms. Graham, I
12 believe that that applies to the sub-transmission
13 assets that are only there to serve the mine.

14 So the different configuration in the two cases,
15 the Victoria Gold mine built and owns the power line
16 that goes from the McQuesten substation to their site.
17 For Minto, we own the line, and the substation at the
18 mine site, that services them. So there was really no
19 reason to have an amortization in life any different
20 because, without the mine, there's no line. If that
21 makes sense.

16:22

22 Q. So you're saying -- so we have a situation where the
23 McQuesten service life and the amortization differ as
24 compared to Minto mine, and you're saying that there's
25 a different configuration in the Minto mine context as

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 opposed to the McQuesten substation, and because of
2 that, the service life and the amortization for
3 McQuesten can differ, but for Minto mine, it should be
4 the same under IFRS; is that right?

5 **A. MR. MOLLARD:** **Yes.**

6 **Q.** And the difference is the ownership; is that correct?
7 Who owns the substation and the line?

8 **A. MR. MOLLARD:** **Yeah. I mean, the difference for**
9 **us is that we see value to the McQuesten substation**
10 **going forward, beyond whether the Victoria Gold mine is**
11 **there or not.**

16:23

12 **The assets that serve Minto from the main**
13 **transmission line into the site, we don't see them**
14 **being valued for much of anything once that mine**
15 **closes.**

16 **MS. GRAHAM:** Mr. Chair, those are -- that's the
17 end of my line of questions on amortization. And I'm
18 just looking at the time. It may be a good spot to
19 break for tomorrow.

20 **THE CHAIR:** Yes, that seems fairly reasonable.
21 We're within five minutes of the scheduled end time.
22 So let's reconvene --

16:24

23 **MR. LANDRY:** Mr. Chairman, just to tie up a
24 loose end so that --

25 **THE CHAIR:** Oh, certainly. Yeah, I see your

A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS, J. EPP
Questioned by Ms. Graham

1 hand up there.

2 MR. LANDRY: Sorry. It's an interesting way
3 of, you know, raising a point. But, in any event, I
4 just off on the chat line spoke to Ms. Sabo and found
5 out where indeed the reference was to B-10, which was
6 the question I asked, so I'm comfortable with her
7 answer. So no need to deal with that any further.

8 THE CHAIR: Okay, very good.

9 MR. LANDRY: And one last question would be
10 does Ms. Graham know how long she's going to be,
11 because I guess we go from Ms. Graham to Board
12 questions, et cetera. I'm just trying to figure out
13 whether we're going to be dealing with the interveners
14 tomorrow.

15 MS. GRAHAM: Yes, if it helps, I'm two-thirds
16 of the way done my questions, so hopefully I'll be done
17 by the morning break tomorrow.

18 MR. LANDRY: Thank you.

19 THE CHAIR: Okay, good. All right, everyone,
20 have a nice evening, and we'll see you tomorrow
21 morning. I was going to say bright and early, but it's
22 getting darker by the day. Okay, good night.

23 (PROCEEDINGS ADJOURNED AT 4:25 P.M. PST)

24

25 PROCEEDINGS ADJOURNED TO 8:30 A.M. PST, SEPTEMBER 29, 2021

16:25

16:25

1 Certificate of Transcript

2
3 We, the undersigned, hereby certify that the foregoing
4 pages 169 to 332 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 Calgary, Province of Alberta, on
9 September 28, 2021.

10
11
12 "Donna Gerbrandt"

13 Donna Gerbrandt, CSR(A)
14 Official Court Reporter

15
16 "Lorelee Vespa"

17 Lorelee Vespa, CSR(A) RPR CRR
18 Official Court Reporter
19
20
21
22
23
24
25

- I N D E X -

VOLUME 2

<u>A. HALL, E. MOLLARD, M. MILOJEVIC, G. GAZANKAS,</u>	173
<u>J. EPP</u> (For Yukon Energy Corporation)	
MS. SABO QUESTIONS THE PANEL	173
MR. RONDEAU CROSS-EXAMINES THE PANEL	227
MS. GRAHAM QUESTIONS THE PANEL	289

EXHIBITS

EXHIBIT C-4-8 - MR. YEE'S PACKAGE OF AIDS TO CROSS	265
AS DESCRIBED	

UNDERTAKINGS GIVEN

UNDERTAKING - REFERRING TO PART (C) ON PAGE 185,	221
LINES 26 AND 27 OF THE ROUND 1 REVISED IRS AND THE	
BOARD YEC IR 62, TO PROVIDE AN EXPLANATION OF WHAT	
"ENVIRONMENTAL DISPOSAL" MEANS	

1	UNDERTAKING - TO CONFIRM THAT THERE ARE NO	222
2	STREETLIGHT RETROFITTING COSTS ADDED TO RATE BASE	
3	FOR THE YEARS OF 2019, 2020, AND 2021; IF THERE	
4	WERE ANY ADDITIONS TO RATE BASE, TO PROVIDE THE	
5	NUMBER FOR EACH YEAR	
6		
7	UNDERTAKING - TO PROVIDE THE FIRST REFERENCE FROM	225
8	A PAST DECISION PRIOR TO BOARD ORDER 2018-10 WHERE	
9	THE ISSUE OF VARIABILITY WAS ADDRESSED BY THE	
10	BOARD BECAUSE OF THE VARIABILITY IN WATER	
11	CONDITIONS	
12		
13	UNDERTAKING - TO PROVIDE YEC'S CODE OF BUSINESS	228
14	CONDUCT AND ETHICS	
15		
16	UNDERTAKING - TO PROVIDE A LIST OF CANADIAN	239
17	UTILITIES THAT YEC IS AWARE OF THAT ARE REGULATED	
18		
19	UNDERTAKING - TO PROVIDE TWO TERM SHEETS FOR 2019,	257
20	USING THE SAME FORMAT AS USED ON TABLE 2-2, REPORT	
21	TO THE BOARD, DECEMBER 10, 2019, ONE USING ONLY	
22	THE YUB BOARD DIRECTIVES AND ONE USING THE OIC	
23		
24		
25		

1 UNDERTAKING - REFERRING TO THE REFURBISHMENT OF 282
2 L170, 171, AND 172, TO ADVISE WHERE THE LINES
3 WERE, HOW LONG THEY WERE, AND HOW MUCH WAS SPENT
4 ON THESE LINES BETWEEN 2012 AND 2020

5
6 UNDERTAKING - FOR YEC TO CONFIRM, WITH RESPECT TO 294
7 THE OPERATIONS AREA, THERE WAS A ONE FULL-TIME
8 EMPLOYEE POSITION INCREASE IN 2021 DUE TO THE
9 ADDITION OF A NEW FULL-TIME POSITION PLANT
10 OPERATOR

11
12 UNDERTAKING - TO PROVIDE THE SAME INFORMATION AS 297
13 GIVEN IN THE RESPONSE TO UNDERTAKING 27 FROM THE
14 2017-2018 GRA PROCEEDING, BUT FOR THE YEARS
15 2018-2020, DEMONSTRATING THAT THE INCREASES TO THE
16 COMPLEMENT LEVELS PROPOSED IN 2021 WILL HAVE
17 EFFECTIVELY REDUCED THE COSTS OR USE OF OUTSIDE
18 CONSULTANTS

19
20 UNDERTAKING - TO PROVIDE A BREAKDOWN OF THE COSTS 317
21 BETWEEN THE APPEALS AND THE OTHER CATEGORIES OF
22 HEARING COSTS CHARGED TO THE HEARING COSTS RESERVE
23 ACCOUNT FOR 2019 AND 2020

1 UNDERTAKING - IN RELATION TO THE CONSOLIDATED IR 319
 2 RESPONSES FOR ROUND 1, PDF PAGE 2860, TO ADVISE OF
 3 THE ACCOUNT NUMBER, NAME, AND AVERAGE SERVICE LIFE
 4 AND IOWA CURVE FOR THE SUBSTATION ASSET

5
 6 UNDERTAKING - REFERRING TO YEC'S PROPOSAL TO 321
 7 AMORTIZE VGC GROUP'S APPROXIMATELY 11.5 MILLION
 8 CONTRIBUTION RELATED TO THE MCQUESTEN SUBSTATION
 9 OVER THE 12-YEAR LIFE OF THE EAGLE GOLD MINE, TO
 10 ADVISE WHICH SPECIFIC SECTION OF AN IFRS-RELATED
 11 PUBLICATION THE AUDITORS POINTED YEC TO

12
 13 UNDERTAKING - TO RESTATE RATE SCHEDULE 39 AND THE 327
 14 APPENDIX 4.3 TABLES SO THAT THEY HAVE A MATCHING
 15 54-YEAR SERVICE LIFE AND 54-YEAR AMORTIZATION FOR
 16 THE VGC GROUP

17
 18 UNDERTAKING - TO RESTATE RATE SCHEDULE 39 AND THE 327
 19 APPENDIX 4.3 TABLES SO THAT THEY HAVE A MATCHING
 20 12-YEAR AMORTIZATION FOR THE VGC GROUP

YEC 2021 GRA, Volume 2, September 28, 2021

\$	11-10 [1] - 324:10 11-12 [1] - 324:10 11.5 [7] - 318:2, 318:3, 318:24, 319:1, 319:24, 321:9, 337:7 111 [1] - 310:9 119 [1] - 296:1 11:55 [1] - 262:9 12 [9] - 195:14, 276:24, 283:25, 320:23, 322:24, 323:20, 326:8, 326:22, 327:21 12-SQ [1] - 329:6 12-year [3] - 319:25, 326:3, 329:9 12-YEAR [4] - 321:11, 328:4, 337:9, 337:20 12.5 [2] - 304:10, 307:13 12.6 [1] - 241:20 120 [2] - 296:1, 296:12 128 [1] - 308:8 13 [4] - 240:9, 277:18, 286:9, 304:7 138 [2] - 247:6, 248:9 138-kV [2] - 308:17, 319:3 14 [2] - 278:18, 304:7 145 [1] - 292:25 1484 [3] - 214:12, 214:13, 214:17 15 [6] - 218:4, 280:4, 280:21, 302:8, 302:13, 302:19 150 [1] - 170:1 153 [2] - 191:8, 191:9 16 [1] - 186:4 16-odd [1] - 259:21 169 [1] - 333:4 17 [1] - 301:21 17(a) [1] - 191:9 171 [3] - 282:3, 282:24, 336:2 172 [3] - 282:3, 282:24, 336:2 173 [2] - 334:5, 334:7 18 [2] - 246:17, 255:23 180,000 [2] - 219:5, 220:13 184 [1] - 218:18 185 [4] - 218:18, 220:20, 221:11, 334:19 186 [1] - 221:15 19 [1] - 310:18 1968 [1] - 266:3 1991 [3] - 224:11, 224:16, 259:16 1992 [1] - 224:11 1:55 [2] - 262:4, 262:11 1:59 [1] - 263:5 1st [10] - 236:14, 288:2, 288:6, 288:7, 288:8, 288:12, 288:15, 288:17, 291:18, 295:7	265:19, 267:12, 267:13, 283:16, 290:3, 301:7, 304:6, 310:8, 334:3 2,184 [1] - 276:10 2-1 [1] - 265:19 2-14 [1] - 240:13 2-15 [1] - 268:13 2-17 [2] - 278:18, 281:6 2-18 [1] - 281:15 2-19 [1] - 282:2 2-2 [3] - 257:6, 257:20, 335:20 2-24 [2] - 283:24, 285:10 2-25 [1] - 285:22 2-32 [1] - 287:24 2-9 [1] - 266:11 2.2 [2] - 232:9, 232:14 2.4 [2] - 237:25, 238:11 20 [7] - 218:4, 218:8, 228:11, 243:17, 247:20, 269:8, 322:18 20-minute [1] - 218:7 20.991 [1] - 271:22 2000s [1] - 182:21 2005 [3] - 181:14, 181:15, 181:19 2006 [2] - 265:25, 269:6 2007 [1] - 288:2 2008 [1] - 237:23 2009 [1] - 261:21 2011 [1] - 237:23 2012 [3] - 282:9, 283:2, 336:4 2013-01 [2] - 296:6, 296:15 2013-2016 [1] - 296:16 2013-2017 [1] - 296:22 2014 [1] - 285:25 2014-06 [1] - 219:11 2015 [1] - 220:1 2017 [1] - 248:2 2017-18 [2] - 245:22, 257:11 2017-2018 [6] - 203:3, 204:24, 295:22, 295:25, 297:20, 336:14 2017-2019 [1] - 290:12 2018 [8] - 218:25, 245:22, 245:24, 246:3, 256:20, 257:12, 259:18, 259:23 2018-10 [8] - 222:24, 223:6, 223:12, 224:9, 225:12, 245:22, 257:11, 335:8 2018-2020 [3] - 297:13, 297:22, 336:15 2019 [26] - 202:25, 203:10, 221:17, 221:19, 221:22, 222:7, 222:15, 248:2, 255:16, 255:21, 256:21, 257:5, 257:7, 257:13, 257:19, 257:21, 270:19, 277:22, 286:2, 309:11, 309:23, 317:20, 335:3,	335:19, 335:21, 336:23 2019-2012 [1] - 297:1 2020 [40] - 193:7, 193:12, 193:23, 196:14, 213:16, 220:22, 221:22, 222:2, 222:7, 222:16, 236:14, 236:19, 237:4, 266:13, 270:7, 278:22, 281:20, 282:9, 283:2, 285:5, 286:3, 288:2, 290:13, 290:21, 291:18, 292:24, 293:2, 293:14, 293:16, 294:1, 295:2, 295:7, 300:18, 310:10, 310:16, 311:20, 317:20, 335:3, 336:4, 336:23 2020/2021 [1] - 299:16 2021 [48] - 169:8, 169:19, 170:5, 192:21, 192:22, 193:2, 193:10, 193:11, 193:23, 193:25, 194:6, 194:10, 196:14, 221:17, 221:19, 221:23, 222:7, 222:16, 237:5, 248:1, 263:2, 271:10, 284:19, 285:1, 288:10, 290:15, 290:16, 290:21, 292:2, 292:6, 292:12, 292:16, 293:3, 293:20, 294:6, 294:17, 295:12, 297:14, 297:24, 299:17, 309:7, 315:2, 323:23, 332:3, 333:9, 335:3, 336:8, 336:16 2021-16 [1] - 174:9 2022 [4] - 194:6, 194:8, 237:7, 285:8 2024 [1] - 246:19 2030 [2] - 204:6, 254:15 20th [1] - 179:3 21 [1] - 243:18 214 [1] - 241:14 215,000 [1] - 194:10 217 [1] - 318:11 22 [1] - 298:4 221 [1] - 334:19 221-16 [1] - 250:25 222 [1] - 335:1 225 [1] - 335:7 227 [1] - 334:8 228 [1] - 335:13 22nd [1] - 238:5 23 [4] - 281:16, 281:19, 281:22, 282:1 23.5 [2] - 240:15, 241:17 239 [1] - 335:16 23rd [1] - 323:23 25 [1] - 296:2 250,000 [2] - 193:1, 194:22 257 [1] - 335:19 26 [5] - 186:10, 220:21, 221:11, 301:11, 334:20 265 [1] - 334:13 27 [8] - 220:21, 221:11, 296:13,	297:2, 297:12, 297:20, 334:20, 336:13 273 [1] - 218:25 273,000 [1] - 219:7 28 [4] - 169:19, 170:5, 263:2, 333:9 282 [1] - 336:1 2859 [1] - 317:3 2860 [4] - 317:5, 317:21, 319:18, 337:2 2863 [1] - 328:7 289 [1] - 334:9 29 [3] - 240:4, 240:9, 332:3 29,000 [1] - 240:4 294 [1] - 336:6 297 [1] - 336:12
0	0.1583 [2] - 245:24, 246:3 008 [1] - 220:24 073 [1] - 310:12			
1	1 [24] - 174:6, 214:12, 218:16, 221:12, 221:15, 237:11, 276:7, 276:17, 276:18, 283:24, 285:22, 290:2, 298:11, 299:10, 308:7, 310:4, 312:11, 317:3, 319:17, 328:7, 329:3, 334:20, 337:2 1-18 [3] - 239:7, 246:25 1-5 [1] - 238:15 1-8 [1] - 298:4 1.1 [1] - 226:3 1.75 [2] - 290:23, 291:15 1/2 [1] - 272:7 10 [4] - 257:21, 270:5, 283:25, 335:21 10-year [6] - 214:2, 255:1, 268:19, 269:18, 304:22, 307:7 10.1 [1] - 212:7 10.7 [1] - 318:1 100 [1] - 211:7 100,000 [2] - 270:23, 271:4 104 [1] - 213:17 10:08 [1] - 218:6 10:28 [1] - 218:8 10th [2] - 256:21, 257:7 11 [3] - 226:2, 283:25, 288:10	2 2 [23] - 169:18, 170:4, 170:23, 174:7, 183:6, 191:7, 194:25, 195:11, 200:22, 221:15, 238:4, 255:6, 261:24, 263:1,		

40 [1] - 190:7 400 [1] - 252:24 414 [2] - 195:1, 195:2 416 [1] - 195:13 434 [1] - 298:11 44 [1] - 238:16 46 [2] - 214:12, 214:16 4:15 [1] - 289:14 4:25 [1] - 332:1	8:30 [1] - 332:3 8:31 [1] - 170:21	310:11, 315:19, 315:21, 320:13 accrual [1] - 314:23 accurate [2] - 175:25, 333:4 accurately [1] - 189:3 achieve [2] - 204:21, 209:8 achieving [2] - 209:7, 284:10 acknowledge [1] - 255:19 acknowledged [2] - 256:24, 267:4 acquire [1] - 308:4 acquisition [1] - 281:4 acronym [1] - 279:25 Act [1] - 178:2 action [5] - 197:9, 212:12, 260:11, 303:9, 311:12 actions [2] - 207:22, 210:3 activities [3] - 177:18, 276:12, 296:17 activity [1] - 177:20 actual [23] - 187:20, 192:7, 196:15, 209:6, 247:15, 253:2, 257:25, 258:5, 258:10, 258:13, 258:21, 259:6, 259:10, 259:18, 260:6, 260:7, 267:21, 268:16, 280:12, 291:7, 291:20, 295:12, 296:22 actuals [1] - 194:1 actuarial [1] - 312:16 ad [1] - 199:7 add [12] - 172:6, 172:9, 189:1, 210:20, 216:2, 216:4, 231:5, 272:8, 306:9, 307:12, 310:25, 312:3 ADDED [2] - 222:14, 335:2 added [14] - 220:22, 221:17, 221:21, 222:6, 227:10, 235:25, 251:4, 267:20, 272:10, 274:1, 279:2, 295:2, 312:8, 315:22 adding [1] - 241:25 ADDITION [2] - 294:17, 336:9 addition [4] - 207:14, 214:24, 294:6, 294:21 additional [7] - 189:10, 202:1, 243:3, 265:3, 300:19, 310:9, 323:18 additions [2] - 222:2, 222:9 ADDITIONS [2] - 222:17, 335:4 address [5] - 171:1, 299:5, 301:13, 304:15, 305:7 addressed [3] - 175:5, 225:6, 257:2 ADDRESSED [2] - 225:13, 335:9 addresses [1] - 287:24 adds [1] - 302:3	adequacy [1] - 228:2 ADJOURNED [4] - 262:9, 262:11, 332:1, 332:3 ADJOURNMENT [3] - 173:16, 218:9, 289:17 adJOURNMENT [1] - 173:2 adjust [1] - 188:6 adjusted [2] - 187:20, 260:10 adjusting [1] - 181:9 adjustment [2] - 187:2, 187:4 adjustments [1] - 187:24 admin [1] - 249:17 administration [1] - 296:23 administrator [2] - 292:8, 293:21 admitted [1] - 305:22 adoption [2] - 284:25, 285:1 ADVISE [6] - 282:25, 319:18, 321:12, 336:2, 337:2, 337:10 advisor [1] - 292:3 advisory [4] - 196:2, 197:8, 197:13, 198:2 AEY [1] - 251:9 affect [3] - 215:1, 215:10, 240:23 affects [1] - 253:16 affirmed [2] - 173:23, 265:15 afield [1] - 300:20 afoul [1] - 177:6 afternoon [2] - 190:13, 289:24 AFUDC [5] - 279:6, 279:7, 279:10, 279:12, 279:21 AG [1] - 197:9 age [1] - 238:7 AGEDS [2] - 198:7, 198:23 aging [2] - 272:17, 280:8 ago [4] - 235:5, 247:17, 247:20, 309:10 agree [6] - 175:7, 180:6, 184:18, 222:24, 223:5, 223:8 agreed [2] - 266:6, 290:20 agreed-upon [1] - 290:20 agreement [7] - 235:16, 246:22, 278:1, 290:11, 291:6, 291:9, 291:16 agreements [5] - 228:25, 234:17, 234:19, 290:11, 290:12 ahead [7] - 173:8, 189:20, 189:21, 211:11, 216:3, 229:15, 324:3 aid [7] - 171:19, 263:21, 264:3, 264:12, 264:13, 264:18, 265:1 AIDS [2] - 265:11, 334:13 Aishihik [6] - 239:20, 242:1, 242:6, 242:9,	275:4, 275:18 Alaska [1] - 300:21 Alberta [2] - 275:6, 333:8 Alexco [2] - 272:13, 322:20 aligned [2] - 212:19, 212:20 aligning [4] - 213:4, 213:10, 213:14, 214:4 aligns [1] - 212:24 Alison [1] - 170:9 alleged [1] - 230:10 allow [3] - 178:13, 200:25, 280:9 allowance [2] - 279:10, 280:1 allowed [2] - 202:20, 320:19 allows [4] - 178:18, 185:11, 201:15, 279:19 almost [6] - 182:22, 188:12, 210:11, 271:13, 272:6, 286:8 alternate [1] - 176:8 alternative [2] - 204:9, 216:15 altogether [1] - 282:11 AMORTIZATION [4] - 327:17, 328:5, 337:15, 337:20 amortization [17] - 316:25, 317:22, 320:9, 323:8, 323:11, 326:3, 326:5, 326:7, 326:11, 326:16, 327:3, 327:21, 328:14, 329:21, 329:25, 330:4, 330:19 amortize [1] - 319:23 AMORTIZE [2] - 321:8, 337:7 amortized [3] - 326:22, 326:24, 329:6 amortizes [1] - 328:9 amortizing [1] - 328:19 amount [28] - 175:16, 193:1, 193:4, 193:19, 194:2, 194:3, 194:10, 194:11, 206:8, 213:20, 216:18, 219:12, 219:16, 240:1, 241:6, 241:13, 242:1, 242:13, 244:12, 252:3, 261:11, 264:17, 267:7, 271:25, 281:18, 310:11, 311:1, 315:9 amounts [3] - 202:1, 251:14, 267:22 AN [4] - 221:13, 321:13, 334:21, 337:10 analysis [7] - 186:22, 206:18, 207:24, 210:12, 284:16, 302:3, 327:11 Andre [1] - 170:7 anecdotally [1] - 311:25 Anne [1] - 170:8 annual [9] - 188:3, 207:1, 207:7, 273:10, 273:15, 274:13, 312:16, 314:23, 316:11
5 5 [9] - 218:22, 237:23, 249:22, 281:16, 286:9, 289:13, 292:7, 295:6, 298:6 5.5 [1] - 237:22 5.6 [2] - 240:16, 241:18 50 [2] - 251:19, 251:20 54 [5] - 290:6, 318:19, 326:6, 326:16, 326:24 54-year [3] - 326:1, 326:11 54-YEAR [4] - 327:16, 327:17, 337:15 55 [1] - 318:20 55,000 [1] - 314:24 56 [1] - 291:24 57 [1] - 293:18 58 [1] - 294:25	A a [3] - 242:17, 301:7, 317:5 A.M [3] - 170:21, 262:9, 332:3 ABB [1] - 285:13 Abhinav [1] - 170:12 ability [2] - 313:25, 333:7 able [14] - 174:16, 187:1, 210:8, 242:7, 242:11, 256:3, 263:25, 296:16, 303:12, 303:16, 303:20, 307:1, 312:6, 324:15 Aboriginal [1] - 235:23 absence [1] - 328:20 absent [1] - 211:25 absolutely [4] - 201:4, 219:20, 266:1, 308:23 absorbs [1] - 185:5 accelerated [2] - 316:24, 317:22 acceptable [1] - 252:19 access [3] - 215:14, 216:25, 296:17 Access [1] - 276:25 accordance [4] - 269:21, 273:16, 274:22, 329:9 according [4] - 179:24, 218:6, 277:1, 318:18 accordingly [2] - 195:15, 270:18 ACCOUNT [4] - 317:20, 319:18, 336:23, 337:3 account [31] - 176:15, 183:10, 185:21, 185:22, 187:16, 188:19, 189:6, 206:13, 214:9, 220:16, 267:14, 311:3, 312:10, 312:12, 312:18, 312:24, 313:15, 313:19, 314:6, 314:21, 315:8, 315:12, 315:14, 316:6, 316:23, 317:11, 318:4, 318:5, 319:11, 329:5 accounted [4] - 260:12, 260:15, 261:2, 283:6 accounting [6] - 187:23, 251:16, 260:6, 292:1, 320:16, 320:18 accounts [6] - 219:13, 219:17,	310:11, 315:19, 315:21, 320:13 accrual [1] - 314:23 accurate [2] - 175:25, 333:4 accurately [1] - 189:3 achieve [2] - 204:21, 209:8 achieving [2] - 209:7, 284:10 acknowledge [1] - 255:19 acknowledged [2] - 256:24, 267:4 acquire [1] - 308:4 acquisition [1] - 281:4 acronym [1] - 279:25 Act [1] - 178:2 action [5] - 197:9, 212:12, 260:11, 303:9, 311:12 actions [2] - 207:22, 210:3 activities [3] - 177:18, 276:12, 296:17 activity [1] - 177:20 actual [23] - 187:20, 192:7, 196:15, 209:6, 247:15, 253:2, 257:25, 258:5, 258:10, 258:13, 258:21, 259:6, 259:10, 259:18, 260:6, 260:7, 267:21, 268:16, 280:12, 291:7, 291:20, 295:12, 296:22 actuals [1] - 194:1 actuarial [1] - 312:16 ad [1] - 199:7 add [12] - 172:6, 172:9, 189:1, 210:20, 216:2, 216:4, 231:5, 272:8, 306:9, 307:12, 310:25, 312:3 ADDED [2] - 222:14, 335:2 added [14] - 220:22, 221:17, 221:21, 222:6, 227:10, 235:25, 251:4, 267:20, 272:10, 274:1, 279:2, 295:2, 312:8, 315:22 adding [1] - 241:25 ADDITION [2] - 294:17, 336:9 addition [4] - 207:14, 214:24, 294:6, 294:21 additional [7] - 189:10, 202:1, 243:3, 265:3, 300:19, 310:9, 323:18 additions [2] - 222:2, 222:9 ADDITIONS [2] - 222:17, 335:4 address [5] - 171:1, 299:5, 301:13, 304:15, 305:7 addressed [3] - 175:5, 225:6, 257:2 ADDRESSED [2] - 225:13, 335:9 addresses [1] - 287:24 adds [1] - 302:3	adequacy [1] - 228:2 ADJOURNED [4] - 262:9, 262:11, 332:1, 332:3 ADJOURNMENT [3] - 173:16, 218:9, 289:17 adJOURNMENT [1] - 173:2 adjust [1] - 188:6 adjusted [2] - 187:20, 260:10 adjusting [1] - 181:9 adjustment [2] - 187:2, 187:4 adjustments [1] - 187:24 admin [1] - 249:17 administration [1] - 296:23 administrator [2] - 292:8, 293:21 admitted [1] - 305:22 adoption [2] - 284:25, 285:1 ADVISE [6] - 282:25, 319:18, 321:12, 336:2, 337:2, 337:10 advisor [1] - 292:3 advisory [4] - 196:2, 197:8, 197:13, 198:2 AEY [1] - 251:9 affect [3] - 215:1, 215:10, 240:23 affects [1] - 253:16 affirmed [2] - 173:23, 265:15 afield [1] - 300:20 afoul [1] - 177:6 afternoon [2] - 190:13, 289:24 AFUDC [5] - 279:6, 279:7, 279:10, 279:12, 279:21 AG [1] - 197:9 age [1] - 238:7 AGEDS [2] - 198:7, 198:23 aging [2] - 272:17, 280:8 ago [4] - 235:5, 247:17, 247:20, 309:10 agree [6] - 175:7, 180:6, 184:18, 222:24, 223:5, 223:8 agreed [2] - 266:6, 290:20 agreed-upon [1] - 290:20 agreement [7] - 235:16, 246:22, 278:1, 290:11, 291:6, 291:9, 291:16 agreements [5] - 228:25, 234:17, 234:19, 290:11, 290:12 ahead [7] - 173:8, 189:20, 189:21, 211:11, 216:3, 229:15, 324:3 aid [7] - 171:19, 263:21, 264:3, 264:12, 264:13, 264:18, 265:1 AIDS [2] - 265:11, 334:13 Aishihik [6] - 239:20, 242:1, 242:6, 242:9,	275:4, 275:18 Alaska [1] - 300:21 Alberta [2] - 275:6, 333:8 Alexco [2] - 272:13, 322:20 aligned [2] - 212:19, 212:20 aligning [4] - 213:4, 213:10, 213:14, 214:4 aligns [1] - 212:24 Alison [1] - 170:9 alleged [1] - 230:10 allow [3] - 178:13, 200:25, 280:9 allowance [2] - 279:10, 280:1 allowed [2] - 202:20, 320:19 allows [4] - 178:18, 185:11, 201:15, 279:19 almost [6] - 182:22, 188:12, 210:11, 271:13, 272:6, 286:8 alternate [1] - 176:8 alternative [2] - 204:9, 216:15 altogether [1] - 282:11 AMORTIZATION [4] - 327:17, 328:5, 337:15, 337:20 amortization [17] - 316:25, 317:22, 320:9, 323:8, 323:11, 326:3, 326:5, 326:7, 326:11, 326:16, 327:3, 327:21, 328:14, 329:21, 329:25, 330:4, 330:19 amortize [1] - 319:23 AMORTIZE [2] - 321:8, 337:7 amortized [3] - 326:22, 326:24, 329:6 amortizes [1] - 328:9 amortizing [1] - 328:19 amount [28] - 175:16, 193:1, 193:4, 193:19, 194:2, 194:3, 194:10, 194:11, 206:8, 213:20, 216:18, 219:12, 219:16, 240:1, 241:6, 241:13, 242:1, 242:13, 244:12, 252:3, 261:11, 264:17, 267:7, 271:25, 281:18, 310:11, 311:1, 315:9 amounts [3] - 202:1, 251:14, 267:22 AN [4] - 221:13, 321:13, 334:21, 337:10 analysis [7] - 186:22, 206:18, 207:24, 210:12, 284:16, 302:3, 327:11 Andre [1] - 170:7 anecdotally [1] - 311:25 Anne [1] - 170:8 annual [9] - 188:3, 207:1, 207:7, 273:10, 273:15, 274:13, 312:16, 314:23, 316:11
6 6.5 [1] - 296:25 600,000 [1] - 270:24 62 [3] - 218:17, 221:13, 334:21 69 [3] - 247:6, 248:8, 314:22	6.5 [1] - 296:25 600,000 [1] - 270:24 62 [3] - 218:17, 221:13, 334:21 69 [3] - 247:6, 248:8, 314:22	310:11, 315:19, 315:21, 320:13 accrual [1] - 314:23 accurate [2] - 175:25, 333:4 accurately [1] - 189:3 achieve [2] - 204:21, 209:8 achieving [2] - 209:7, 284:10 acknowledge [1] - 255:19 acknowledged [2] - 256:24, 267:4 acquire [1] - 308:4 acquisition [1] - 281:4 acronym [1] - 279:25 Act [1] - 178:2 action [5] - 197:9, 212:12, 260:11, 303:9, 311:12 actions [2] - 207:22, 210:3 activities [3] - 177:18, 276:12, 296:17 activity [1] - 177:20 actual [23] - 187:20, 192:7, 196:15, 209:6, 247:15, 253:2, 257:25, 258:5, 258:10, 258:13, 258:21, 259:6, 259:10, 259:18, 260:6, 260:7, 267:21, 268:16, 280:12, 291:7, 291:20, 295:12, 296:22 actuals [1] - 194:1 actuarial [1] - 312:16 ad [1] - 199:7 add [12] - 172:6, 172:9, 189:1, 210:20, 216:2, 216:4, 231:5, 272:8, 306:9, 307:12, 310:25, 312:3 ADDED [2] - 222:14, 335:2 added [14] - 220:22, 221:17, 221:21, 222:6, 227:10, 235:25, 251:4, 267:20, 272:10, 274:1, 279:2, 295:2, 312:8, 315:22 adding [1] - 241:25 ADDITION [2] - 294:17, 336:9 addition [4] - 207:14, 214:24, 294:6, 294:21 additional [7] - 189:10, 202:1, 243:3, 265:3, 300:19, 310:9, 323:18 additions [2] - 222:2, 222:9 ADDITIONS [2] - 222:17, 335:4 address [5] - 171:1, 299:5, 301:13, 304:15, 305:7 addressed [3] - 175:5, 225:6, 257:2 ADDRESSED [2] - 225:13, 335:9 addresses [1] - 287:24 adds [1] - 302:3	adequacy [1] - 228:2 ADJOURNED [4] - 262:9, 262:11, 332:1, 332:3 ADJOURNMENT [3] - 173:16, 218:9, 289:17 adJOURNMENT [1] - 173:2 adjust [1] - 188:6 adjusted [2] - 187:20, 260:10 adjusting [1] - 181:9 adjustment [2] - 187:2, 187:4 adjustments [1] - 187:24 admin [1] - 249:17 administration [1] - 296:23 administrator [2] - 292:8, 293:21 admitted [1] - 305:22 adoption [2] - 284:25, 285:1 ADVISE [6] - 282:25, 319:18, 321:12, 336:2, 337:2, 337:10 advisor [1] - 292:3 advisory [4] - 196:2, 197:8, 197:13, 198:2 AEY [1] - 251:9 affect [3] - 215:1, 215:10, 240:23 affects [1] - 253:16 affirmed [2] - 173:23, 265:15 afield [1] - 300:20 afoul [1] - 177:6 afternoon [2] - 190:13, 289:24 AFUDC [5] - 279:6, 279:7, 279:10, 279:12, 279:21 AG [1] - 197:9 age [1] - 238:7 AGEDS [2] - 198:7, 198:23 aging [2] - 272:17, 280:8 ago [4] - 235:5, 247:17, 247:20, 309:10 agree [6] - 175:7, 180:6, 184:18, 222:24, 223:5, 223:8 agreed [2] - 266:6, 290:20 agreed-upon [1] - 290:20 agreement [7] - 235:16, 246:22, 278:1, 290:11, 291:6, 291:9, 291:16 agreements [5] - 228:25, 234:17, 234:19, 290:11, 290:12 ahead [7] - 173:8, 189:20, 189:21, 211:11, 216:3, 229:15, 324:3 aid [7] - 171:19, 263:21, 264:3, 264:12, 264:13, 264:18, 265:1 	

annually [1] - 187:20
answer [7] - 174:17, 178:24, 191:14, 204:25, 230:22, 255:4, 331:9
answered [2] - 215:4, 288:23
answering [2] - 225:18, 233:9
anticipate [1] - 315:1
anticipates [1] - 188:9
ANY [2] - 222:16, 335:4
anyway [2] - 246:21, 329:1
anyways [1] - 309:2
apologies [4] - 276:7, 281:1, 286:7, 324:7
apologize [7] - 171:22, 191:15, 192:14, 229:14, 263:18, 303:22, 303:23
appeal [8] - 220:6, 220:9, 220:12, 220:13, 220:14, 315:15, 316:1, 316:19
Appeal [1] - 270:17
appeals [5] - 315:5, 315:9, 316:12, 317:7, 317:9
APPEALS [2] - 317:17, 336:21
appear [2] - 278:16, 324:2
APPENDIX [4] - 327:15, 328:3, 337:14, 337:19
Appendix [6] - 226:3, 296:2, 324:11, 325:25, 326:10, 327:2
application [44] - 174:5, 179:4, 183:4, 188:6, 196:8, 203:2, 203:6, 232:2, 232:10, 232:13, 234:6, 236:8, 236:15, 236:19, 236:21, 240:13, 241:10, 243:24, 256:5, 260:16, 267:16, 278:16, 287:18, 287:23, 288:16, 290:3, 290:6, 291:20, 293:12, 293:17, 298:4, 309:5, 312:11, 313:1, 313:3, 314:21, 315:12, 315:17, 316:4, 316:17, 318:9, 318:11, 324:10
APPLICATION [1] - 169:8
applications [1] - 202:21
applied [3] - 254:11, 326:6, 326:7
applies [5] - 180:8, 182:3, 278:3, 291:1, 329:14
apply [3] - 186:21, 290:25, 313:2
applying [6] - 251:22, 251:25, 252:1, 275:19, 313:9, 313:14
appreciate [4] - 173:20, 173:25, 174:13, 282:21

appreciated [1] - 198:13
approach [5] - 180:7, 181:14, 181:19, 306:10, 328:10
approached [1] - 300:18
appropriate [5] - 230:2, 230:6, 230:23, 265:4, 293:9
appropriation [1] - 314:23
approval [10] - 178:4, 235:17, 268:20, 268:23, 269:4, 269:9, 269:13, 309:5, 312:17, 313:19
approve [5] - 207:19, 208:3, 256:25, 269:1, 269:5
approved [16] - 177:14, 219:10, 244:16, 245:11, 245:21, 245:24, 246:3, 256:21, 266:17, 267:19, 291:11, 291:20, 296:9, 296:14, 315:2
approximate [1] - 281:18
APPROXIMATELY [2] - 321:9, 337:7
April [3] - 256:9, 290:15, 290:16
apropos [1] - 227:1
arbitration [2] - 290:14, 290:16
ARE [4] - 222:13, 239:5, 335:1, 335:17
AREA [2] - 294:15, 336:7
area [13] - 180:12, 207:9, 211:11, 211:12, 216:9, 229:6, 271:19, 280:16, 292:1, 292:11, 293:20, 293:25, 295:1
areas [3] - 174:2, 277:8, 286:20
argue [1] - 314:1
argument [3] - 179:12, 180:3, 226:7
arises [2] - 212:5, 229:20
arms [1] - 282:14
arrangement [1] - 278:15
arrangements [2] - 251:8, 253:6
articling [1] - 196:10
AS [6] - 257:20, 265:11, 297:19, 334:14, 335:20, 336:12
aside [1] - 185:7
aspect [1] - 215:20
assessed [1] - 314:18
assessing [1] - 286:21
assessment [4] - 231:8, 251:5, 258:21, 266:6
assessments [2] - 266:5, 275:3
asset [11] - 188:10, 188:22, 254:19, 273:2, 273:12, 319:13, 320:5, 320:21, 320:22,

322:25, 329:5
Asset [1] - 280:21
ASSET [2] - 319:20, 337:4
assets [11] - 266:19, 272:7, 272:17, 279:1, 279:14, 306:6, 318:3, 318:7, 329:11, 329:15, 330:14
assign [3] - 258:1, 258:6, 258:13
assigned [3] - 172:1, 192:2, 296:19
assignment [1] - 172:7
associated [7] - 186:16, 261:8, 269:17, 274:12, 283:17, 310:18, 326:4
Association [2] - 274:22, 274:25
assume [2] - 176:18, 226:10
assuming [3] - 189:16, 275:14, 303:14
assumption [1] - 229:21
assure [1] - 236:14
AT [4] - 170:21, 262:9, 263:5, 332:1
ATCO [18] - 170:14, 197:25, 215:20, 216:18, 216:24, 240:10, 240:16, 241:8, 241:18, 277:19, 278:4, 278:10, 278:11, 281:23, 312:23, 313:8, 313:10, 313:16
ATCO's [1] - 216:22
Attachment [1] - 285:22
attachment [2] - 239:12, 239:14
attempt [1] - 299:6
attend [1] - 312:6
attending [1] - 225:18
attract [1] - 188:11
attracts [1] - 273:12
attributed [1] - 276:14
audit [3] - 230:19, 231:6, 286:2
audited [1] - 320:7
auditing [1] - 231:7
Auditor [1] - 231:6
AUDITORS [2] - 321:14, 337:11
auditors [3] - 230:19, 320:8, 320:24
audits [1] - 208:19
AUSTI [1] - 314:2
authorities [1] - 227:24
availability [5] - 183:20, 199:11, 205:20, 243:8, 298:18
available [6] - 174:9, 213:6, 215:23, 226:23, 298:25, 323:12
AVERAGE [2] - 319:19, 337:3
average [15] - 176:11, 176:13, 176:14, 176:15, 181:15, 183:20, 184:16, 187:22,

242:20, 247:1, 248:1, 248:2, 259:17, 318:6, 319:12
avoid [7] - 194:18, 195:20, 197:18, 200:9, 201:18, 202:4, 286:19
awarded [1] - 291:7
AWARE [2] - 239:4, 335:17
aware [7] - 209:3, 220:2, 226:11, 238:25, 295:13, 312:24, 328:24
Ayri [1] - 170:12

B

b) [3] - 191:9, 218:20, 243:9
B-10 [4] - 324:4, 325:6, 325:19, 331:7
B-27 [1] - 304:7
B-9 [1] - 276:8
B11 [1] - 226:3
backstory [1] - 219:21
backup [1] - 302:7
backups [1] - 302:15
bad [1] - 286:5
balance [6] - 185:20, 186:5, 187:24, 188:8, 188:9, 189:5
bargaining [4] - 290:11, 291:6, 291:9, 291:16
barrier [1] - 176:9
barriers [1] - 176:3
BASE [4] - 222:15, 222:17, 335:2, 335:4
base [30] - 188:11, 189:18, 189:24, 215:25, 218:24, 221:17, 221:21, 221:23, 222:6, 222:9, 251:4, 251:10, 251:23, 254:12, 267:20, 270:24, 271:2, 271:6, 271:23, 272:1, 273:12, 275:20, 279:15, 279:17, 282:10, 282:15, 283:12, 290:21, 290:22, 309:6
baseboard [2] - 193:16, 247:18
based [21] - 176:15, 186:12, 210:13, 238:12, 238:18, 244:10, 247:12, 248:1, 248:18, 258:18, 258:20, 259:6, 260:3, 272:13, 295:14, 299:13, 299:25, 300:23, 301:17, 314:1, 323:12
basic [1] - 179:17
basis [14] - 198:6, 199:20, 203:17, 207:1, 207:7, 208:7, 210:3, 273:10, 273:16, 285:9, 291:7, 299:13, 305:9, 329:6
BC [2] - 228:22, 228:24
bear [3] - 219:14, 219:17, 237:16
BECAUSE [2] - 225:14, 335:10
beg [1] - 192:8

beginning [2] - 212:8, 252:21
begs [1] - 203:5
behalf [2] - 176:7, 177:2
behave [1] - 252:17
behind [1] - 279:11
below [4] - 188:1, 193:3, 223:16, 223:21
benefit [15] - 184:8, 207:24, 208:6, 208:11, 216:15, 253:8, 253:14, 260:22, 286:15, 303:9, 310:20, 312:9, 312:13, 314:18, 320:21
benefits [5] - 210:12, 234:22, 284:10, 284:12, 284:13
benefitting [1] - 254:8
best [8] - 171:14, 200:16, 200:17, 204:20, 208:10, 227:14, 264:18, 333:6
better [11] - 171:11, 208:11, 212:19, 212:24, 214:9, 239:8, 241:22, 250:2, 257:3, 300:14
BETWEEN [4] - 283:2, 317:17, 336:4, 336:21
between [15] - 240:17, 242:12, 249:16, 250:9, 252:6, 261:14, 274:18, 281:17, 303:21, 308:15, 309:18, 317:9, 318:18, 321:17, 328:13
beyond [7] - 182:4, 184:11, 219:25, 226:10, 235:19, 285:5, 330:12
big [5] - 205:21, 207:25, 307:3, 313:24, 317:3
biggest [1] - 182:16
bill [1] - 178:10
billing [1] - 292:1
billing/accounting [1] - 293:19
bills [1] - 178:13
bit [23] - 178:18, 184:14, 188:15, 190:16, 196:7, 198:8, 199:13, 202:14, 211:11, 211:14, 212:21, 221:3, 242:16, 244:22, 264:22, 282:3, 285:11, 300:6, 300:19, 309:9, 311:15, 320:3, 328:23
blended [3] - 245:12, 245:23, 246:2
blocks [1] - 268:6
BOARD [11] - 169:1, 221:12, 225:12, 225:13, 257:21, 257:22, 334:21, 335:8, 335:10, 335:21, 335:22
board [7] - 178:12, 227:20, 235:17, 279:19, 291:10, 291:11, 320:17
Board [83] - 170:7,

170:8, 170:8, 170:9, 170:10, 170:11, 170:11, 170:12, 170:12, 172:20, 175:13, 176:8, 176:19, 178:5, 179:7, 179:25, 181:9, 181:16, 181:20, 185:14, 187:1, 187:6, 188:4, 188:6, 188:20, 191:19, 191:24, 195:3, 207:19, 211:14, 214:23, 218:17, 219:22, 222:24, 223:5, 223:6, 223:12, 224:8, 224:10, 224:19, 225:6, 225:18, 226:18, 227:25, 228:5, 228:9, 229:19, 232:19, 234:14, 236:14, 245:21, 250:22, 255:17, 256:22, 256:24, 257:7, 257:10, 259:16, 260:23, 268:1, 268:17, 268:20, 268:22, 269:5, 269:9, 269:12, 269:22, 269:24, 275:25, 281:10, 289:3, 289:25, 295:13, 296:2, 296:6, 296:15, 314:14, 315:5, 316:13, 328:21, 331:13 Board's [11] - 179:1, 179:18, 180:5, 207:2, 210:22, 219:25, 264:25, 295:21, 295:25, 316:22, 329:4 boardroom [1] - 190:19 boil [1] - 225:3 Bonnie [1] - 170:7 books [1] - 269:20 borne [1] - 182:5 borrow [1] - 178:3 borrowing [2] - 279:22, 313:19 borrowings [1] - 178:12 bottom [1] - 265:20 bought [1] - 268:8 bound [1] - 300:14 branch [6] - 195:18, 197:23, 198:1, 198:4, 202:16, 287:4 break [20] - 171:23, 173:11, 173:15, 173:19, 190:5, 190:15, 190:16, 191:22, 211:23, 212:3, 218:1, 218:2, 218:4, 218:7, 262:2, 289:7, 289:12, 317:9, 330:21, 331:19 BREAKDOWN [2] - 317:16, 336:20 breakdown [7] - 192:23, 194:16, 219:2, 239:17, 299:9, 315:17, 315:23 breakdowns [3] - 191:11, 231:10, 266:15 breaker [1] - 247:8 breaking [1] - 211:18 breakout [1] - 276:11 breaks [1] - 280:22	brief [2] - 279:8, 282:3 bright [1] - 331:24 bring [3] - 259:14, 304:3, 305:23 British [1] - 275:6 broad [2] - 230:9, 272:15 broadly [1] - 234:16 broken [2] - 299:19, 300:5 brought [4] - 260:10, 268:22, 280:5 brushing [6] - 308:6, 308:10, 308:12, 308:21, 309:15, 309:20 Buchan [1] - 170:6 build [2] - 187:7, 203:21 building [5] - 185:4, 279:17, 318:16, 318:19 buildings [1] - 287:21 builds [1] - 206:6 built [4] - 186:25, 266:2, 321:24, 329:17 bulbs [3] - 205:17, 205:18, 209:22 bulk [1] - 264:25 bullet [1] - 265:19 burden [5] - 178:19, 186:16, 219:14, 219:17, 259:11 buried [1] - 316:10 burned [1] - 320:23 business [5] - 181:10, 211:13, 228:5, 230:21, 260:4 BUSINESS [2] - 228:15, 335:13 businesses [1] - 235:2 BUT [2] - 297:21, 336:14 button [1] - 286:7	311:13, 312:2, 312:4 cannot [2] - 178:3, 314:3 cap [6] - 186:2, 186:10, 186:13, 187:5, 188:1, 188:5 capable [1] - 201:7 capacities [1] - 241:7 capacitors [1] - 247:5 capacity [40] - 204:2, 204:6, 204:14, 206:20, 208:13, 210:24, 213:15, 214:1, 237:22, 238:2, 238:9, 240:17, 240:18, 240:19, 240:20, 240:25, 241:3, 241:11, 241:13, 241:15, 242:1, 243:2, 243:5, 243:7, 245:8, 253:16, 301:14, 301:22, 302:1, 302:20, 302:22, 304:9, 304:11, 304:16, 304:24, 305:8, 307:13 Capacity [1] - 298:6 capital [16] - 184:1, 188:10, 188:12, 226:15, 236:1, 249:6, 249:8, 249:17, 249:20, 250:9, 251:12, 281:9, 290:5, 296:23, 303:24, 329:5 Capital [3] - 246:8, 246:10, 249:25 capitalized [2] - 189:25, 318:4 capture [1] - 312:13 captures [1] - 176:11 carries [1] - 320:21 carry [1] - 218:10 cars [1] - 305:16 case [2] - 208:12, 320:19 cases [3] - 189:8, 241:2, 329:16 cash [2] - 186:5, 310:7 casual [1] - 294:21 categories [1] - 317:10 CATEGORIES [2] - 317:18, 336:21 category [2] - 314:3, 318:14 causal [1] - 294:21 caused [3] - 183:13, 308:18, 310:20 ceased [1] - 322:23 Centre [2] - 287:2, 287:5 cents [4] - 243:17, 243:18, 245:24, 246:3 certain [9] - 205:18, 210:17, 219:24, 276:1, 278:8, 280:9, 299:3, 300:15, 301:17 certainly [15] - 173:10, 174:15, 177:10, 192:10, 204:16, 209:10, 217:17, 226:12, 256:15, 269:8, 279:10, 282:16, 300:7, 311:18, 331:2 certainty [2] - 306:13, 323:19	Certificate [1] - 333:1 certify [1] - 333:3 CHAIR [43] - 170:22, 171:3, 171:9, 171:12, 171:17, 171:25, 172:11, 172:14, 173:3, 173:13, 173:15, 173:17, 180:6, 190:21, 192:1, 192:10, 212:2, 218:5, 218:10, 226:22, 226:25, 227:16, 229:15, 230:7, 262:3, 262:7, 263:6, 263:16, 263:23, 264:8, 264:24, 265:8, 265:12, 289:5, 289:10, 289:12, 289:16, 289:18, 289:21, 330:22, 331:2, 331:10, 331:21 Chair [2] - 170:6, 176:22 chair [43] - 170:7, 171:6, 171:8, 171:15, 176:24, 179:13, 179:21, 180:2, 184:23, 186:8, 191:13, 229:13, 231:6, 236:17, 238:23, 241:24, 244:8, 244:15, 244:21, 245:19, 246:9, 247:25, 249:12, 250:3, 250:7, 251:24, 255:18, 258:8, 261:13, 262:5, 263:17, 263:22, 266:2, 266:23, 274:6, 277:21, 281:21, 283:14, 287:16, 289:22, 305:12, 318:8, 330:18 Chairman [13] - 172:5, 172:13, 173:10, 173:18, 180:11, 190:4, 190:18, 190:20, 190:24, 211:22, 217:25, 218:13, 330:25 challenge [3] - 216:16, 306:10, 307:3 challenges [1] - 238:8 chance [2] - 188:24, 189:1 change [12] - 181:10, 181:18, 181:21, 189:4, 196:11, 219:6, 243:7, 244:18, 292:7, 320:11, 327:11, 327:23 changed [7] - 181:17, 223:11, 242:25, 243:19, 248:18, 257:4, 312:19 changes [16] - 183:11, 183:15, 183:16, 183:22, 184:8, 184:11, 186:14, 206:10, 258:1, 258:2, 258:6, 258:7, 258:14, 295:11, 327:7 changing [2] - 203:24, 205:1 charge [20] - 189:10, 201:15, 219:5, 219:9,	249:9, 249:24, 249:25, 260:10, 260:14, 260:24, 261:4, 268:10, 270:6, 271:8, 272:10, 273:9, 275:11, 279:19, 327:8, 327:24 CHARGED [2] - 317:19, 336:22 charged [8] - 249:19, 251:13, 261:10, 270:20, 272:13, 274:3, 279:23, 317:10 chargers [5] - 200:23, 200:25, 201:6, 201:9, 201:19 charges [7] - 261:14, 261:15, 274:7, 277:19, 278:13, 297:8 charging [2] - 205:13, 274:15 chart [2] - 271:14, 278:23 chat [2] - 192:9, 331:6 check [10] - 186:24, 190:1, 192:25, 203:15, 206:22, 243:22, 309:10, 318:13, 321:4, 329:13 checking [1] - 203:23 cheque [1] - 273:17 choice [1] - 305:14 choose [1] - 319:3 chosen [1] - 310:1 Christopher [1] - 170:14 circle [1] - 222:20 circuit [1] - 248:18 circumstance [1] - 240:24 City [2] - 170:15, 333:8 claim [1] - 283:10 clarification [4] - 174:16, 218:15, 225:1, 266:23 clarify [4] - 171:18, 225:19, 234:4, 254:25 clarity [2] - 209:11, 218:24 classes [2] - 312:7 clean [2] - 228:23, 264:22 Clean [1] - 206:8 clear [22] - 182:2, 209:19, 215:7, 230:14, 243:1, 243:14, 243:24, 246:22, 250:3, 251:24, 256:17, 257:9, 259:1, 259:5, 268:18, 269:3, 270:15, 283:14, 288:4, 288:13, 311:5, 326:14 clearer [1] - 260:23 clearly [5] - 185:13, 220:11, 236:4, 250:8, 288:1 clicks [1] - 322:18 climate [1] - 196:10 close [7] - 177:5, 179:21, 180:4, 211:23, 262:3, 328:25, 329:2 closely [1] - 293:6 closes [1] - 330:17 closing [1] - 304:23
---	---	--	--	--

CMMS [2] - 280:7, 284:15 code [2] - 228:5, 276:13 CODE [2] - 228:14, 335:13 codes [1] - 228:3 coldest [1] - 303:14 collaborate [1] - 286:20 collaboration [6] - 196:19, 197:20, 199:16, 200:7, 286:24, 287:4 collaborative [1] - 198:24 collaboratively [1] - 278:5 colleague [1] - 187:19 collecting [1] - 261:5 collection [1] - 277:14 collective [4] - 290:10, 291:6, 291:9, 291:16 colour [1] - 302:3 Columbia [1] - 275:6 comfortable [1] - 331:8 coming [9] - 178:16, 187:6, 199:18, 214:7, 216:13, 219:23, 252:11, 254:2, 273:3 COMMENCED [1] - 170:21 commencing [1] - 246:11 comment [4] - 181:13, 211:9, 215:4, 272:4 commercial [1] - 217:18 committee [1] - 286:2 commodity [4] - 182:7, 182:10, 244:9, 244:23 communications [3] - 217:3, 291:25, 292:2 communities [1] - 311:24 companies [1] - 285:17 company [3] - 177:25, 179:16, 230:25 comparable [1] - 307:2 comparative [2] - 208:7, 210:11 compare [1] - 304:8 compared [5] - 208:25, 296:25, 303:25, 304:9, 330:1 compatible [1] - 319:3 compensated [2] - 234:8, 279:12 compensation [5] - 234:1, 234:7, 234:11, 234:15, 235:13 competitive [2] - 300:25, 309:25 competitively [1] - 274:23 complement [4] - 295:13, 296:9, 296:14, 297:14 COMPLEMENT [2] -	297:23, 336:16 complete [6] - 194:7, 195:12, 237:6, 279:20, 309:5, 333:4 completed [13] - 193:9, 193:24, 194:5, 200:5, 202:25, 203:2, 203:10, 270:7, 283:23, 290:19, 308:22, 308:24, 309:7 completes [1] - 289:2 completion [1] - 267:19 complexities [1] - 306:5 compliance [1] - 296:5 complying [1] - 179:9 component [5] - 234:12, 247:22, 248:15, 249:15, 249:19 components [1] - 232:24 comprised [1] - 283:15 compromised [1] - 313:25 computer [2] - 218:6, 280:6 concept [2] - 188:16, 253:5 concern [3] - 177:24, 182:16, 313:24 concerned [2] - 181:9, 302:13 concerns [1] - 190:11 concrete [1] - 200:19 condition [1] - 184:11 CONDITIONS [2] - 225:15, 335:11 conditions [11] - 182:17, 183:16, 183:17, 183:22, 225:7, 242:21, 242:22, 258:2, 258:7, 258:15, 258:23 conduct [5] - 228:4, 228:6, 273:21, 274:10, 286:25 CONDUCT [2] - 228:15, 335:14 conducted [2] - 203:18, 232:22 conductor [1] - 247:21 conductors [2] - 247:7, 247:13 conducts [1] - 274:21 conference [1] - 311:13 confidence [2] - 211:14, 211:18 configuration [4] - 281:2, 281:4, 329:16, 330:2 configured [1] - 173:19 CONFIRM [4] - 222:13, 294:14, 335:1, 336:6 confirm [19] - 185:19, 194:9, 221:20, 222:1, 222:3, 222:5, 224:11, 246:9,	292:1, 292:6, 292:11, 293:2, 293:20, 293:25, 294:9, 295:1, 308:20, 318:23, 328:17 confirmed [4] - 195:21, 292:9, 296:13, 326:3 confirming [2] - 202:15, 291:22 confirms [2] - 221:16, 224:9 confused [3] - 194:11, 219:19, 258:11 confusing [1] - 264:12 confusion [2] - 194:18, 264:11 conjunction [1] - 284:13 connect [3] - 303:12, 321:20, 322:3 connection [2] - 246:16, 315:4 connects [2] - 239:23, 277:12 consider [7] - 179:8, 189:14, 189:16, 189:22, 305:6, 307:22, 314:9 considerably [1] - 300:17 consideration [1] - 187:11 considered [2] - 188:10, 195:19 consistent [7] - 179:5, 179:10, 199:6, 222:23, 223:12, 248:3, 249:7 consistently [2] - 186:20, 230:22 CONSOLIDATED [2] - 319:17, 337:1 consolidated [17] - 174:5, 174:7, 191:6, 214:11, 214:19, 214:20, 218:17, 290:1, 290:2, 298:10, 301:6, 308:7, 310:5, 310:8, 317:2, 328:6, 329:2 constant [1] - 205:7 constructed [2] - 279:14, 322:6 construction [3] - 279:11, 280:2, 304:18 consultant [2] - 274:23, 277:14 CONSULTANTS [2] - 298:1, 336:18 consultants [6] - 275:1, 275:2, 296:11, 296:19, 297:7, 297:16 consulting [2] - 229:8, 296:22 Consumers' [1] - 170:16 contain [1] - 267:1 contemplated [1] - 202:24 contemplation [1] - 196:19 context [13] - 183:1, 189:13, 192:4, 196:7, 198:20, 203:24, 206:15, 212:22, 214:2, 221:7, 309:21, 328:11, 330:2	contingency [3] - 239:19, 239:24, 242:2 Contingency [1] - 183:9 continual [1] - 238:1 continue [5] - 190:6, 190:10, 212:1, 242:7, 262:1 continued [1] - 238:7 continues [2] - 218:18, 322:19 continuing [3] - 173:4, 278:18, 323:16 contract [8] - 299:15, 299:18, 299:19, 300:2, 300:4, 300:13, 301:18 contracting [3] - 227:19, 229:9, 235:1 contractor [2] - 295:22, 296:1 contractor's [1] - 281:5 contractors [1] - 273:21 contracts [9] - 227:21, 229:1, 229:3, 244:1, 244:9, 244:11, 245:20, 299:21 CONTRIBUTION [2] - 321:9, 337:8 contribution [10] - 316:25, 317:24, 319:24, 320:4, 323:12, 326:4, 326:7, 326:24, 327:3, 328:15 contributions [16] - 193:3, 194:10, 194:22, 251:12, 252:1, 252:2, 271:16, 271:18, 271:20, 271:22, 312:14, 320:20, 326:22, 328:9, 328:14, 328:19 control [14] - 182:4, 182:11, 184:12, 200:24, 201:7, 201:25, 205:12, 209:13, 209:18, 228:3, 231:9, 231:10, 252:12, 314:4 controlled [2] - 193:17, 211:3 controller [1] - 211:4 controllers [1] - 193:17 controlling [1] - 205:15 controls [1] - 230:23 conversation [2] - 171:24, 191:22 conversations [4] - 171:21, 172:2, 235:22, 256:15 converted [1] - 221:2 coordinating [1] - 201:12 coordination [2] - 195:8, 201:4 copy [8] - 192:7, 290:7, 291:24, 293:18, 294:25, 296:2, 298:4, 314:22 core [1] - 247:15 corporate [2] - 177:19, 227:24 Corporation [5] - 170:13, 173:23, 178:1, 265:15, 334:6 correct [47] - 189:19,	194:24, 203:1, 227:22, 239:21, 240:11, 247:2, 247:3, 248:11, 248:12, 250:13, 251:11, 251:18, 255:2, 256:13, 257:12, 258:3, 260:19, 261:19, 269:15, 271:13, 271:24, 273:8, 273:22, 273:24, 275:13, 275:14, 275:16, 276:19, 279:3, 283:12, 288:12, 295:5, 295:10, 301:5, 302:12, 304:2, 304:5, 304:17, 309:12, 309:21, 309:22, 317:13, 318:21, 324:5, 325:10, 330:8 correction [1] - 293:13 corresponding [1] - 206:20 corrupt [1] - 231:18 corruption [3] - 229:7, 229:12, 230:17 corruptions [1] - 228:20 cost [58] - 183:13, 184:23, 184:24, 185:9, 191:10, 197:21, 207:24, 208:3, 208:4, 208:6, 208:10, 210:23, 211:9, 211:16, 216:14, 219:2, 219:9, 219:12, 219:16, 220:5, 220:13, 220:15, 224:22, 238:22, 245:16, 253:18, 253:19, 254:11, 258:1, 258:6, 258:14, 267:6, 267:10, 268:9, 270:4, 271:16, 276:11, 276:13, 278:14, 280:15, 280:23, 282:20, 286:14, 286:21, 288:25, 299:10, 299:18, 300:15, 303:24, 304:8, 304:11, 310:17, 314:3, 316:5, 316:11, 318:25, 319:2 cost-benefit [1] - 207:24 cost-effective [1] - 216:14 cost-effectiveness [3] - 211:9, 211:16, 253:19 costing [1] - 282:11 costly [1] - 247:9 Costs [3] - 280:15, 281:6, 281:12 COSTS [10] - 222:14, 297:25, 317:17, 317:18, 317:19, 335:2, 336:17, 336:20, 336:22 costs [136] - 180:14, 182:12, 183:21, 183:25, 185:10, 192:20, 193:25, 199:23, 205:25, 207:19, 207:23, 219:23, 219:24, 220:8, 220:12,
--	--	--	---	---

220:22, 221:17, 221:21, 222:6, 222:25, 223:7, 227:10, 229:8, 235:25, 236:3, 236:15, 236:21, 236:22, 243:10, 243:12, 244:6, 245:21, 249:5, 249:6, 249:20, 251:3, 251:12, 251:18, 251:20, 251:25, 252:1, 252:16, 253:4, 253:24, 254:17, 261:3, 261:9, 261:10, 261:16, 266:13, 267:15, 267:19, 268:7, 270:1, 270:17, 270:21, 271:4, 271:11, 272:10, 272:25, 273:10, 274:1, 274:12, 275:19, 276:14, 276:16, 277:20, 277:22, 278:10, 278:16, 278:23, 279:2, 279:5, 279:15, 279:22, 280:12, 280:18, 280:22, 280:25, 283:3, 283:5, 283:11, 285:12, 286:10, 287:18, 287:22, 287:24, 288:1, 288:15, 290:5, 290:10, 295:22, 296:1, 296:11, 296:23, 297:15, 298:3, 299:10, 299:12, 299:14, 299:24, 300:5, 300:10, 300:22, 304:11, 308:10, 309:20, 310:10, 310:14, 310:19, 310:22, 311:4, 311:6, 311:13, 312:13, 314:20, 314:24, 314:25, 315:1, 315:4, 315:11, 315:15, 315:22, 316:2, 316:12, 316:16, 316:19, 317:9, 317:10, 317:11, 317:25, 318:23, 320:20, 326:6 Council [2] - 245:13, 256:18 counsel [3] - 278:8, 289:25, 295:21 Counsel [2] - 170:9, 170:10 count [3] - 240:15, 241:3, 241:4 counting [1] - 238:9 country [1] - 229:6 counts [1] - 204:5 couple [6] - 235:4, 252:9, 272:3, 305:13, 321:3, 328:25 course [9] - 174:5, 174:9, 201:17, 209:19, 213:8, 221:22, 226:17, 312:4, 323:8 Court [4] - 170:19, 270:17, 333:14, 333:18 COURT [6] - 233:9, 245:25, 246:5, 248:5, 248:7, 260:21	court [5] - 172:7, 198:11, 222:3, 263:9, 315:9 courtesies [1] - 227:3 courts [1] - 220:6 cover [3] - 220:8, 279:15, 302:19 covered [18] - 180:15, 180:24, 181:5, 220:5, 220:12, 223:16, 223:20, 268:7, 290:11, 291:5, 291:13, 295:11, 295:15, 295:17, 299:17, 301:2, 308:24 covering [1] - 174:1 covers [2] - 226:4, 298:24 COVID [7] - 310:18, 310:20, 311:2, 311:6, 311:9, 311:14, 312:2 COVID-19 [3] - 310:6, 310:10, 310:15 create [1] - 301:22 created [4] - 175:21, 224:16, 259:16, 299:3 creates [1] - 234:25 creating [1] - 224:20 crew [3] - 277:10, 309:23, 309:25 crews [1] - 277:6 criteria [1] - 242:4 critical [4] - 201:4, 252:20, 267:2, 284:25 cross [14] - 171:19, 244:22, 261:25, 263:21, 264:3, 264:9, 264:10, 264:13, 264:14, 264:19, 265:1, 282:14, 289:2 CROSS [5] - 227:17, 265:11, 265:16, 334:8, 334:13 cross-examination [3] - 261:25, 263:21, 264:14 cross-examine [4] - 264:3, 264:9, 264:10, 264:19 CROSS-EXAMINES [3] - 227:17, 265:16, 334:8 crossing [1] - 177:16 CRR [2] - 170:19, 333:17 crunching [1] - 253:1 crunchy [1] - 211:2 CSR(A) [4] - 170:19, 170:19, 333:13, 333:17 Cullingham [1] - 170:14 cultural [1] - 284:23 culture [1] - 284:25 cumulative [1] - 205:3 current [10] - 187:3, 200:19, 236:23, 240:25, 244:10, 258:18, 270:4, 279:22, 306:21, 315:1 curve [6] - 318:6, 319:5, 319:6, 319:12, 329:7 CURVE [2] - 319:20, 337:4 customer [12] - 183:11, 193:17,	201:6, 201:14, 212:13, 212:17, 215:25, 217:11, 261:14, 277:12, 291:25, 293:19 customers [23] - 205:10, 213:18, 215:18, 215:20, 216:17, 216:19, 216:21, 217:17, 261:7, 272:22, 272:24, 281:17, 281:19, 281:22, 281:23, 281:25, 287:12, 322:9, 322:20, 323:1, 323:3 cut [2] - 236:18, 248:9 cut-off [1] - 236:18 cutting [1] - 273:17 CW-YEC-1-18 [1] - 308:8	decision-making [1] - 239:8 decisions [6] - 175:16, 179:6, 179:10, 256:18, 315:5, 316:13 deck [1] - 289:8 decommissioning [1] - 278:25 deconstruct [1] - 184:13 decrease [4] - 210:24, 238:1, 294:1, 310:24 decreased [1] - 296:24 decreases [2] - 295:12, 310:18 defence [1] - 316:17 defer [1] - 187:18 deferral [10] - 175:6, 176:14, 183:10, 312:10, 312:12, 312:18, 312:24, 313:15, 313:19, 314:6 deferred [2] - 283:11, 313:3 Deferred [2] - 281:6, 281:12 defined [3] - 245:12, 312:9, 312:13 defining [1] - 208:1 definition [2] - 266:17, 314:5 definitively [1] - 231:1 degree [1] - 230:25 delayed [1] - 256:8 deliver [3] - 200:1, 204:10, 219:10 delivered [2] - 203:15, 208:21 delivering [6] - 200:16, 201:12, 203:22, 203:25, 204:7, 204:20 delivers [1] - 252:13 delivery [5] - 203:13, 219:5, 219:9, 275:8, 300:7 demand [41] - 174:3, 190:7, 191:2, 192:21, 193:2, 193:8, 194:12, 194:19, 195:17, 195:23, 198:2, 200:25, 201:16, 204:5, 204:7, 204:11, 205:10, 206:19, 207:3, 209:6, 209:16, 210:24, 212:8, 212:10, 212:20, 212:25, 213:5, 213:10, 213:12, 213:15, 214:5, 232:25, 236:10, 241:5, 242:3, 242:4, 242:8, 251:1, 261:15, 270:8, 287:13 demonstrate [2] - 260:11, 284:9 demonstrated [1] - 267:25 demonstrates [1] - 306:24 demonstrating [1] - 297:13 DEMONSTRATING [2] - 297:22, 336:15 Department [1] - 235:23	department [3] - 232:22, 250:12, 250:14 departure [1] - 259:19 dependable [20] - 204:6, 238:9, 240:18, 240:25, 241:7, 241:11, 241:12, 241:13, 241:15, 243:2, 243:5, 243:7, 245:8, 253:16, 301:13, 302:1, 302:20, 304:15, 304:24, 305:8 deployed [1] - 286:22 deploying [1] - 205:11 depreciation [5] - 226:15, 267:21, 272:12, 273:11, 318:18 derate [1] - 238:8 derated [1] - 241:3 describe [3] - 249:13, 321:16, 328:12 DESCRIBED [2] - 265:11, 334:14 described [1] - 189:3 description [2] - 184:15, 279:8 design [29] - 195:19, 195:24, 196:17, 196:22, 197:2, 197:5, 197:12, 199:21, 200:4, 200:12, 202:9, 202:17, 203:18, 203:19, 204:15, 204:20, 205:23, 208:1, 208:22, 216:9, 254:6, 261:13, 261:15, 261:20, 270:9, 270:19, 270:21, 271:5, 308:1 designed [1] - 270:1 desired [1] - 208:12 desk [1] - 173:19 desktop [2] - 277:1, 277:15 detail [1] - 281:24 detailed [2] - 195:12, 277:23 determination [2] - 258:24, 323:5 determinations [1] - 183:24 determine [5] - 179:8, 181:20, 208:20, 216:22, 242:22 determined [4] - 222:25, 223:6, 293:7, 329:9 developed [2] - 234:19, 235:4 developing [4] - 207:18, 208:8, 236:23, 270:12 development [11] - 192:21, 193:5, 196:13, 198:8, 206:1, 271:10, 277:23, 278:6, 278:8, 304:25, 305:1 device [4] - 205:12, 209:14, 313:18, 314:5 devices [7] - 193:13, 193:19, 193:21,
--	---	--	---	---

205:14, 209:17, 237:6, 252:18 Diesel [1] - 183:9 diesel [43] - 183:12, 204:13, 233:23, 240:4, 240:9, 240:10, 240:16, 241:8, 241:18, 243:10, 243:12, 244:24, 265:22, 265:24, 272:23, 298:3, 299:9, 299:10, 301:12, 301:19, 301:21, 302:13, 303:24, 303:25, 304:9, 304:10, 304:14, 304:19, 305:2, 305:5, 305:7, 306:18, 307:4, 307:6, 307:11, 307:13, 307:17, 307:25, 308:4 diesel-generated [1] - 305:7 diesels [5] - 237:20, 240:3, 241:23, 241:25, 302:8 differ [3] - 299:24, 329:25, 330:5 difference [4] - 240:17, 326:25, 330:8, 330:10 differences [1] - 328:12 different [22] - 197:17, 201:13, 203:13, 205:4, 205:19, 205:21, 208:5, 208:7, 209:10, 209:11, 217:13, 247:16, 247:20, 276:13, 293:3, 300:8, 303:1, 303:8, 320:13, 329:16, 329:21, 330:2 differentiate [1] - 274:18 differently [2] - 214:25, 215:10 difficult [3] - 217:1, 231:2, 323:19 difficulties [1] - 227:6 difficulty [4] - 179:22, 229:23, 253:7, 264:21 dipping [8] - 249:10, 249:17, 249:23, 250:2, 250:6, 250:10, 275:15, 275:17 direct [4] - 209:18, 210:9, 233:17, 233:19 directed [1] - 268:1 direction [6] - 196:20, 264:13, 269:17, 320:10, 321:1, 328:21 directions [3] - 256:14, 257:11, 259:15 DIRECTIVES [2] - 257:22, 335:22 directives [2] - 257:8, 257:10 directly [2] - 254:1, 271:21 directors [1] - 227:21 disagree [1] - 175:7 disclosure [1] - 235:21 discontinue [1] -	207:3 discontinued [1] - 207:5 discovered [1] - 300:16 discretion [1] - 316:22 discuss [2] - 197:11, 324:19 discussed [4] - 229:18, 229:25, 304:10, 304:22 discussion [7] - 198:25, 200:6, 209:9, 222:20, 272:9, 298:8, 308:13 discussions [3] - 177:23, 178:17, 202:5 dispatch [2] - 201:25, 252:12 disposal [4] - 220:23, 220:25, 221:6, 271:9 DISPOSAL [1] - 221:14 DISPOSAL"MEANS [1] - 334:22 dissipates [1] - 247:19 distinction [1] - 224:6 distracted [1] - 256:3 distribution [3] - 216:18, 308:9, 309:15 divide [1] - 249:15 doable [1] - 192:12 document [9] - 174:8, 174:10, 224:14, 227:25, 228:8, 302:10, 317:3, 318:9, 323:23 documentation [2] - 277:23, 278:6 documented [1] - 236:4 documents [4] - 264:6, 265:1, 278:9, 290:1 dollar [2] - 267:22, 311:1 dollars [5] - 228:1, 245:17, 246:4, 270:12, 272:7 done [30] - 188:4, 203:8, 203:11, 203:21, 205:3, 206:2, 206:16, 206:18, 206:25, 207:21, 208:18, 226:14, 226:17, 232:2, 232:4, 248:3, 250:7, 269:6, 277:6, 286:8, 287:16, 287:18, 290:19, 291:8, 297:7, 306:20, 309:10, 331:18 Donna [3] - 170:19, 333:12, 333:13 double [8] - 249:10, 249:17, 249:22, 250:1, 250:6, 250:10, 275:15, 275:17 down [20] - 187:5, 198:12, 213:22, 238:13, 239:20, 242:17, 243:21, 245:2, 248:10, 256:12, 267:12, 273:25, 280:22, 283:25, 299:19, 300:5, 306:15, 317:9,	320:5, 333:5 downside [1] - 178:19 draft [3] - 200:4, 202:9, 275:9 drafted [1] - 196:9 drawn [1] - 320:5 drive [1] - 201:15 driven [3] - 260:6, 274:8, 274:13 driver [4] - 176:18, 254:4, 302:4, 312:17 drivers [1] - 181:8 driving [1] - 322:4 dropping [1] - 247:10 drops [1] - 180:22 drought [13] - 176:14, 178:7, 178:8, 178:9, 182:17, 182:23, 184:24, 185:3, 185:5, 185:9, 224:18 droughts [2] - 184:20 DSM [67] - 191:11, 193:6, 195:9, 195:10, 195:21, 196:9, 196:12, 196:13, 196:17, 196:22, 197:9, 197:17, 197:22, 197:24, 198:5, 199:16, 199:17, 199:19, 199:22, 200:1, 200:12, 201:8, 202:20, 202:22, 203:7, 203:11, 203:13, 203:22, 203:24, 205:6, 205:22, 205:24, 206:1, 206:11, 206:23, 207:6, 207:18, 208:4, 208:7, 209:21, 212:24, 215:12, 216:14, 219:12, 219:23, 220:3, 232:23, 232:24, 236:15, 236:23, 250:22, 251:3, 253:13, 253:20, 267:18, 270:1, 270:3, 270:9, 270:17, 270:19, 276:21, 286:10, 286:15, 286:22, 287:24, 288:1 DUE [2] - 294:17, 336:8 due [25] - 183:15, 183:25, 184:9, 184:10, 240:23, 242:20, 258:2, 258:7, 258:15, 271:3, 283:19, 293:7, 294:1, 294:6, 294:20, 295:7, 304:16, 304:20, 308:10, 309:13, 311:9, 311:14, 312:4, 312:7, 327:9 duplicating [1] - 202:2 duplication [12] - 195:20, 196:25, 197:5, 197:18, 200:10, 201:18, 202:4, 202:12, 203:23, 276:2, 276:4, 286:19 duplications [1] -	202:19 uplicative [1] - 206:1 duration [1] - 238:7 during [16] - 193:18, 203:3, 209:16, 213:16, 213:20, 253:10, 268:14, 279:11, 280:1, 296:4, 298:7, 301:23, 302:5, 302:23, 303:14, 303:15 Dwayne [1] - 170:11	E EACH [2] - 222:18, 335:5 Eagle [6] - 320:1, 321:17, 321:20, 322:11, 322:23, 328:13 EAGLE [2] - 321:11, 337:9 EAM [5] - 280:4, 280:22, 283:24, 284:2, 284:15 earliest [1] - 256:10 early [18] - 175:15, 182:21, 196:21, 197:2, 197:10, 197:13, 202:7, 207:11, 217:8, 220:4, 224:10, 233:1, 246:12, 278:4, 300:17, 302:18, 331:24 earn [1] - 188:22 earnings [1] - 184:7 easier [2] - 264:23, 295:23 eastern [1] - 300:21 eats [1] - 220:19 economic [2] - 305:14, 306:12 economics [1] - 208:24 economy [1] - 212:14 Ed [1] - 265:25 edict [1] - 256:12 effect [2] - 179:2, 209:7 effective [6] - 179:3, 197:21, 210:18, 216:14, 288:25, 295:7 EFFECTIVELY [2] - 297:24, 336:17 effectively [4] - 179:18, 229:21, 296:10, 297:15 effectiveness [11] - 205:22, 208:3, 208:4, 208:14, 211:9, 211:16, 253:18, 253:19, 253:20, 286:21, 288:25 effects [2] - 184:20, 310:6 efficiencies [1] - 207:23 efficiency [6] - 212:14, 212:22, 247:9, 248:9, 284:5, 284:9 efficient [7] - 212:18, 227:2, 227:8, 227:12, 230:13, 247:7, 247:8 efficiently [1] - 287:11	efforts [1] - 202:3 either [16] - 176:4, 176:7, 187:7, 188:2, 189:7, 190:5, 221:1, 223:16, 223:21, 239:22, 272:19, 299:12, 303:19, 304:25, 309:15, 324:25 elaborate [1] - 195:7 Electric [8] - 170:14, 197:25, 215:20, 216:18, 277:19, 312:23, 313:8, 313:10 electric [4] - 200:22, 205:13, 295:2, 295:8 electrical [2] - 233:6, 233:11 electricity [10] - 204:3, 212:13, 212:15, 212:18, 212:20, 212:24, 213:4, 214:4, 246:22, 278:1 electrification [3] - 206:7, 206:14, 254:3 electrify [1] - 206:10 elements [2] - 197:2, 235:20 eligible [1] - 251:20 email [1] - 263:25 emergency [1] - 303:12 employee [8] - 188:18, 294:1, 294:5, 294:20, 295:7, 295:13, 314:18 EMPLOYEE [2] - 294:16, 336:8 employees [10] - 249:8, 274:4, 290:24, 291:2, 291:4, 291:5, 291:13, 291:21, 291:23, 310:15 employment [1] - 234:23 encouraging [1] - 206:9 end [22] - 187:17, 214:9, 221:1, 227:7, 244:2, 253:17, 255:16, 255:21, 261:24, 266:5, 266:7, 266:19, 267:25, 268:1, 268:4, 272:18, 285:2, 291:15, 306:12, 330:19, 330:23, 331:1 end-of-life [1] - 266:19 ended [1] - 290:18 Energy [35] - 170:13, 173:23, 177:1, 178:1, 178:2, 197:25, 203:16, 211:15, 216:11, 229:2, 229:10, 232:4, 232:20, 234:17, 236:14, 240:15, 241:18, 244:14, 244:20, 246:8, 246:10, 247:4, 251:22, 252:6, 255:15, 265:15, 277:6, 278:4, 280:5, 286:16, 287:1, 287:5, 287:7, 325:13, 334:6 energy [16] - 195:18, 197:23, 198:1, 198:2, 198:4, 202:16,
---	---	---	---	--	--

207:12, 228:23, 228:25, 245:17, 253:9, 254:24, 261:11, 261:14, 287:4, 287:12 Energy's [2] - 200:3, 277:20 engaged [1] - 195:15 engagement [1] - 195:20 engineer [7] - 233:12, 292:16, 293:6, 293:9, 293:12, 295:3, 295:8 engineering [1] - 295:1 engineers [2] - 233:3, 233:6 engines [1] - 266:25 engrained [1] - 284:24 enhance [1] - 280:9 enjoy [1] - 225:21 ensure [12] - 195:16, 197:15, 199:5, 200:16, 217:14, 228:2, 238:8, 242:14, 250:10, 254:6, 286:14, 302:21 ensures [1] - 184:6 ensuring [3] - 196:25, 202:11, 204:19 enter [1] - 287:1 entered [3] - 234:17, 320:3, 324:18 Enterprise [4] - 280:17, 280:21, 285:10, 285:23 entire [1] - 298:24 entirely [1] - 316:22 entities [2] - 199:2, 201:12 entitled [2] - 279:12, 313:17 entity [2] - 178:3, 197:18 enumerated [1] - 176:6 envelope [2] - 199:22, 199:24 environment [1] - 292:11 ENVIRONMENTAL [2] - 221:14, 334:22 environmental [3] - 220:23, 221:6, 233:2 EPA [1] - 245:20 EPP [24] - 173:22, 189:2, 245:23, 246:2, 247:25, 265:14, 267:17, 268:3, 290:17, 290:22, 291:1, 291:8, 291:14, 292:4, 292:9, 299:14, 300:2, 310:21, 312:3, 315:8, 318:8, 318:13, 318:22, 334:6 Epp [8] - 187:19, 188:24, 245:18, 245:25, 248:6, 290:17, 299:14, 310:21 equal [3] - 326:12, 329:11, 329:12 equation [1] - 242:10 equipment [11] - 183:25, 266:14, 266:18, 278:21, 318:15, 318:17,	318:19, 318:20, 319:5, 326:16 equity [5] - 174:2, 220:18, 279:16, 313:21, 314:10 equivalent [2] - 204:12, 293:11 ERM [1] - 285:25 ERP [1] - 280:23 escalating [1] - 229:8 escalation [4] - 290:25, 291:1, 291:7, 291:12 essentially [7] - 182:4, 201:13, 203:16, 204:8, 208:20, 279:21, 328:16 establish [1] - 300:13 established [5] - 179:24, 183:10, 284:13, 284:18, 285:7 establishes [3] - 188:20, 220:11, 245:13 estimate [3] - 210:8, 260:2, 260:15 estimated [3] - 210:4, 254:11, 261:4 et cetera [7] - 234:23, 247:13, 274:16, 277:13, 278:2, 284:21, 331:14 ethics [2] - 228:4, 228:6 ETHICS [2] - 228:15, 335:14 evaluate [3] - 210:2, 210:4, 210:17 evaluated [1] - 285:12 evaluating [1] - 202:11 evaluation [4] - 206:25, 207:6, 208:16, 210:15 evaluations [1] - 312:16 evening [1] - 331:22 event [11] - 184:21, 193:18, 209:16, 242:15, 262:4, 301:23, 302:14, 302:23, 302:24, 331:5 events [4] - 184:2, 193:23, 237:4, 277:11 eventually [2] - 213:23, 285:18 evidence [11] - 170:24, 178:8, 191:16, 231:11, 250:8, 264:15, 265:3, 295:14, 313:15, 315:18 evolution [1] - 205:7 exactly [14] - 208:1, 209:15, 211:3, 211:5, 221:4, 231:16, 254:21, 255:15, 278:19, 285:12, 285:13, 322:2, 324:25, 326:14 Exactly [1] - 201:20 examination [4] - 261:25, 263:21, 264:14, 307:19 examine [4] - 264:3, 264:9, 264:10, 264:19	EXAMINES [3] - 227:17, 265:16, 334:8 example [24] - 182:7, 197:20, 200:8, 200:19, 200:21, 201:3, 201:11, 201:17, 205:16, 209:14, 209:22, 213:17, 229:2, 234:13, 235:22, 236:6, 236:9, 247:18, 269:2, 275:4, 311:18, 312:6, 315:12 examples [6] - 202:3, 228:22, 234:21, 238:20, 245:3, 266:12 excellent [1] - 252:22 except [1] - 191:4 exception [4] - 253:9, 264:4, 264:5, 320:18 excerpt [1] - 295:21 excess [1] - 213:6 exchange [7] - 295:15, 303:21, 304:1, 304:4, 304:5, 308:15, 309:18 excluding [2] - 175:15, 259:23 excuse [1] - 253:19 executed [1] - 219:25 executing [1] - 269:21 execution [1] - 284:5 exercise [3] - 202:11, 277:15, 286:25 Exhibit [5] - 226:3, 264:20, 276:8, 304:7, 325:6 EXHIBIT [2] - 265:10, 334:13 exhibit [10] - 172:8, 192:3, 264:19, 276:7, 304:8, 323:24, 324:2, 324:14, 324:17, 325:19 EXHIBITS [1] - 334:11 exist [1] - 202:15 existent [1] - 311:20 existing [13] - 195:16, 200:8, 202:18, 240:8, 247:13, 260:25, 261:3, 261:5, 261:9, 280:7, 297:5, 299:19, 322:16 expand [2] - 300:6, 323:17 expanded [1] - 234:24 expect [4] - 218:1, 227:3, 249:11, 301:19 expected [5] - 180:20, 185:19, 242:21, 284:3, 307:14 expecting [2] - 196:9, 199:15 expects [1] - 301:15 expenditure [1] - 276:1 expense [1] - 283:8 expensed [1] - 283:4 experience [3] - 252:17, 252:19, 301:17	experienced [1] - 204:17 expert [4] - 174:13, 198:11, 209:24, 284:14 expertise [1] - 207:10 experts [1] - 210:1 explain [10] - 192:20, 196:4, 219:15, 238:1, 238:6, 250:5, 251:7, 287:13, 303:1, 311:15 explained [1] - 177:21 explanation [3] - 221:5, 295:19, 298:14 EXPLANATION [2] - 221:13, 334:21 explanations [1] - 191:11 exploration [1] - 323:16 explore [1] - 307:6 extended [1] - 313:21 extensive [1] - 255:22 extent [3] - 182:12, 267:4, 313:20 external [6] - 296:19, 309:19, 309:20, 309:21, 309:25, 310:1 externally [1] - 178:4 extra [1] - 267:6 extracurricular [1] - 274:4 extreme [1] - 272:2 eyes [1] - 235:18	F face [1] - 313:17 faced [2] - 227:9, 272:18 facilities [2] - 274:21, 287:19 facility [8] - 233:24, 239:22, 239:24, 242:1, 242:6, 242:9, 275:5, 283:15 fact [6] - 214:9, 222:1, 272:16, 273:3, 283:20, 293:15 factor [1] - 205:21 factored [2] - 217:20, 258:24 factors [6] - 182:3, 209:25, 240:23, 299:23, 314:9, 314:17 fail [1] - 302:14 failing [2] - 293:15, 309:8 failure [5] - 184:1, 239:21, 266:18, 266:24, 267:9 fair [2] - 301:21, 313:6 fairly [2] - 277:10, 330:22 fairness [2] - 312:21, 313:4 fallout [1] - 255:21 falls [1] - 314:2 familiar [2] - 193:15, 284:14 far [7] - 189:2, 190:11, 193:24, 202:4, 243:12, 253:24, 275:6 Farm [1] - 266:10	Faro [13] - 243:18, 299:22, 299:25, 300:8, 300:10, 300:22, 301:4, 302:21, 302:25, 303:1, 303:5, 303:6, 303:17 fashion [1] - 305:24 fast [1] - 198:11 favourable [1] - 301:18 FD1 [2] - 237:21, 238:11 Feasibility [1] - 278:19 feature [1] - 201:1 February [4] - 196:16, 288:5, 288:10, 288:11 federal [1] - 273:3 fees [1] - 300:7 felt [2] - 302:18, 313:6 few [10] - 208:15, 211:22, 211:24, 222:19, 236:10, 237:16, 298:9, 307:5, 307:15, 307:18 field [1] - 277:7 figure [4] - 187:21, 187:24, 244:12, 331:14 file [4] - 179:17, 188:3, 237:13, 255:16 filed [3] - 191:20, 295:14, 312:25 filling [5] - 236:20, 256:25, 288:16, 325:8, 325:13 filings [1] - 179:24 fill [1] - 293:9 filled [2] - 292:5, 293:14 filler [1] - 279:6 final [1] - 251:3 finalized [2] - 194:2, 291:10 finance [1] - 293:19 financial [6] - 178:7, 178:21, 181:6, 181:11, 310:7 Financial [1] - 320:8 financing [3] - 177:24, 178:16, 178:19 fine [7] - 172:2, 178:25, 179:12, 255:5, 259:9, 267:24, 325:20 fingertips [1] - 321:3 finished [1] - 227:18 finishes [1] - 226:17 Finning [4] - 306:2, 306:3, 306:16, 306:22 firm [1] - 242:14 FIRST [2] - 225:10, 335:7 First [10] - 229:2, 234:1, 234:4, 234:7, 234:18, 234:25, 235:1, 235:3, 235:14, 295:17 first [24] - 190:10, 197:6, 214:18, 214:20, 217:10, 219:15, 225:5, 236:12, 237:9, 237:10, 237:18, 249:15, 253:1, 256:2, 265:18, 266:15,
---	--	--	--	---	--

277:18, 281:8, 290:1,
292:1, 292:12,
293:25, 295:1, 298:19
firstly [1] - 252:10
fiscal [1] - 290:21
fit [1] - 265:2
fits [1] - 206:11
five [5] - 173:11,
173:15, 274:10,
274:20, 330:23
five-minute [2] -
173:11, 173:15
fixed [8] - 260:10,
260:14, 260:24,
261:4, 272:10, 273:9,
327:8, 327:24
fleet [2] - 298:25,
305:18
flexibility [1] - 176:7
flow [1] - 310:7
flows [4] - 178:7,
182:12, 182:13
fluctuation [2] -
183:14, 184:9
focus [11] - 203:22,
204:2, 204:7, 204:14,
206:7, 206:13,
208:12, 213:15,
227:7, 283:21, 285:1
focused [6] - 201:8,
207:11, 207:12,
227:12, 230:12, 237:5
folks [1] - 193:14
follow [3] - 314:2,
328:18, 328:22
followed [1] - 286:1
following [1] - 207:2
follows [1] - 219:3
footnote [2] -
281:14, 281:16
Footnote [1] - 298:6
FOR [20] - 222:15,
222:18, 257:19,
294:14, 297:21,
317:20, 319:17,
319:20, 327:18,
328:5, 335:3, 335:5,
335:19, 336:6,
336:14, 336:23,
337:2, 337:4, 337:15,
337:20
force [1] - 184:1
forecast [37] -
174:21, 174:22,
175:9, 175:16,
175:19, 175:20,
180:14, 180:17,
180:25, 186:12,
193:25, 194:2, 194:3,
196:12, 213:24,
223:1, 223:7, 223:16,
223:22, 242:3,
242:13, 242:22,
248:1, 257:25, 258:2,
258:5, 258:7, 258:10,
258:23, 259:24,
260:4, 271:15,
291:21, 299:16,
310:16, 314:25
forecasted [1] -
291:23
forecasting [8] -
199:17, 199:19,
231:19, 231:21,
231:24, 232:4, 259:2,
271:17
forecasts [7] - 175:4,
194:1, 194:4, 196:9,
232:11, 298:7, 309:16
foregoing [1] - 333:3

foremost [1] -
217:10
formal [3] - 199:3,
268:20, 268:25
format [2] - 244:17,
257:6
FORMAT [2] -
257:19, 335:20
forms [1] - 175:14
forth [1] - 263:24
Fortin [1] - 170:7
forum [1] - 198:24
forward [8] - 199:20,
227:15, 244:1,
248:22, 254:7, 285:9,
296:20, 330:12
foundation [2] -
264:15
four [6] - 204:13,
208:5, 213:19,
233:17, 233:18,
284:24
frame [1] - 308:21
framed [1] - 223:3
framework [1] -
238:18
frankly [3] - 305:15,
305:25, 313:13
fraud [1] - 230:21
free [3] - 172:24,
229:6, 265:2
frequently [1] -
198:7
FROM [4] - 225:11,
297:20, 335:7, 336:13
front [1] - 314:13
FTEs [2] - 291:21,
296:14
fuel [14] - 178:10,
178:13, 182:7,
243:23, 244:3, 244:8,
244:11, 244:24,
245:12, 245:23,
246:2, 274:2, 274:16,
299:20
full [14] - 180:21,
285:8, 291:21, 292:2,
292:8, 292:13,
293:21, 294:1, 294:5,
294:7, 294:20, 295:2,
295:6, 295:12
FULL [4] - 294:16,
294:18, 336:7, 336:9
full-time [12] -
291:21, 292:2, 292:8,
292:13, 293:21,
294:1, 294:5, 294:7,
294:20, 295:2, 295:6,
295:12
FULL-TIME [4] -
294:16, 294:18,
336:7, 336:9
fully [4] - 180:24,
203:14, 323:9
functionality [2] -
280:9, 285:16
functions [1] - 297:5
fund [43] - 174:3,
174:22, 175:10,
175:14, 175:20,
175:23, 180:19,
183:3, 183:17,
183:24, 184:3, 184:4,
184:5, 184:17,
184:19, 185:1, 185:5,
185:10, 185:14,
185:20, 186:2, 186:5,
186:20, 187:7,
187:19, 187:22,
188:8, 188:9, 188:10,

189:15, 189:17,
189:23, 222:21,
222:23, 223:15,
255:13, 256:17,
258:20, 259:6,
259:16, 260:3, 260:5
Fund [3] - 183:8,
183:9, 184:6
fundamental [1] -
176:10
funded [3] - 201:19,
251:21, 253:23
funding [10] - 193:4,
194:15, 202:20,
203:7, 251:8, 251:9,
252:8, 253:6, 253:25,
273:4
funds [5] - 185:21,
188:12, 189:3,
279:11, 280:1
future [8] - 196:10,
207:18, 220:3, 257:1,
270:9, 281:9, 305:1,
319:4
Future [1] - 206:8

G

g [1] - 285:10
gabbing [1] - 294:9
gained [1] - 207:23
gallery [1] - 172:15
gap [4] - 221:19,
242:12, 300:16,
304:24
Gary [11] - 246:18,
247:11, 273:23,
274:5, 274:17, 277:3,
277:9, 280:13, 282:5,
284:11, 285:14
gas [4] - 240:10,
241:8, 241:19, 241:20
gather [3] - 249:3,
266:15, 285:11
GAZANKAS [20] -
173:22, 246:18,
247:11, 248:11,
265:14, 273:23,
274:5, 274:17, 277:3,
277:9, 280:7, 280:13,
282:5, 283:14,
284:11, 285:14,
285:20, 295:4, 295:9,
334:5
Gazankas [16] -
246:18, 247:11,
248:12, 248:19,
273:23, 274:5,
274:17, 277:3, 277:9,
277:16, 280:13,
282:5, 284:11,
285:14, 295:4, 295:9
gears [1] - 295:20
GENERAL [1] -
169:8
General [1] - 231:7
general [4] - 175:1,
191:2, 210:6, 216:17
generally [3] - 175:3,
188:8, 305:21
generate [2] -
232:12, 253:15
generated [2] -
198:19, 305:7
generating [2] -
283:15, 322:17
generation [27] -
180:13, 180:20,
183:13, 183:15,
183:21, 183:25,

184:9, 184:10,
187:21, 193:20,
212:15, 213:6, 213:8,
214:10, 222:25,
223:7, 224:4, 232:11,
242:10, 243:6, 259:6,
260:7, 301:20,
303:13, 304:16,
304:20, 308:4
generator [7] -
240:20, 240:21,
241:2, 241:4, 279:6,
300:4, 303:16
generators [10] -
204:13, 213:25,
242:14, 283:16,
283:17, 299:20,
300:10, 300:15,
302:19, 303:13
gentlemen [1] -
189:12
geographically [1] -
314:17
Gerbrandt [3] -
170:19, 333:12,
333:13
gifting [1] - 231:13
GIS [1] - 277:1
GIVEN [3] - 297:19,
334:17, 336:13
given [17] - 176:16,
179:9, 181:4, 184:18,
189:14, 202:20,
203:7, 204:16,
204:17, 219:19,
227:5, 264:17,
297:12, 301:17,
302:17, 305:4, 310:17
go-forward [2] -
199:20, 285:9
goals [1] - 286:1
Gold [9] - 272:13,
320:1, 321:17,
321:20, 322:11,
322:23, 328:13,
329:17, 330:12
GOLD [2] - 321:11,
337:9
government [33] -
177:1, 178:3, 178:14,
178:20, 179:19,
179:25, 182:8,
195:16, 196:20,
197:1, 197:3, 197:16,
198:25, 200:9,
200:15, 200:21,
201:5, 201:10,
202:14, 203:23,
206:9, 220:2, 235:20,
235:24, 236:13,
252:5, 256:12,
256:16, 273:3,
286:12, 286:14,
286:18, 286:24
Government [5] -
177:17, 178:4,
203:16, 216:11,
216:13
government's [3] -
195:9, 195:21, 254:3
governments [1] -
252:6
GPS [1] - 277:6
GRA [23] - 170:23,
177:19, 199:18,
202:21, 202:24,
203:4, 204:25,
219:23, 244:16,
244:19, 245:22,
246:3, 254:17, 257:2,

257:11, 284:9,
295:22, 295:25,
297:20, 315:2,
325:14, 336:14
GRA-approved [1] -
244:16
GRA...that [1] -
296:8
GRA...will [1] -
296:10
Graham [21] -
170:10, 226:10,
226:14, 226:17,
289:8, 289:18,
289:24, 290:17,
295:16, 303:3, 318:8,
319:1, 319:9, 320:3,
324:1, 324:13,
324:23, 326:14,
329:13, 331:12,
331:13
GRAHAM [20] -
171:6, 172:19, 289:9,
289:11, 289:15,
289:20, 289:22,
289:23, 294:19,
298:2, 317:21,
319:21, 321:15,
324:24, 325:22,
327:19, 328:6,
330:18, 331:17, 334:9
grant [1] - 320:17
granular [1] - 315:15
granularity [1] -
316:9
GRAs [1] - 267:18
great [5] - 201:3,
201:11, 202:3, 217:6,
265:8
greatly [1] - 248:9
green [2] - 304:16,
304:20
greenfield [1] -
304:19
grey [1] - 180:12
grid [2] - 184:8,
184:10
gross [1] - 193:1
ground [1] - 211:18
groundbreaking [1] -
209:4
group [20] - 196:2,
196:3, 197:8, 197:9,
197:13, 197:15,
197:22, 197:24,
198:1, 198:2, 198:6,
198:23, 199:4, 200:5,
200:11, 200:20,
202:9, 216:1, 282:1
Group [3] - 170:17,
316:25, 326:12
GROUP [4] - 327:18,
328:5, 337:16, 337:20
Group's [2] - 317:24,
319:23
GROUP'S [2] -
321:8, 337:7
groups [4] - 196:4,
198:17, 199:16,
217:13
growth [2] - 200:25,
204:18
guess [16] - 175:22,
181:1, 203:5, 217:3,
238:15, 268:5,
269:14, 275:12,
277:5, 281:20,
285:12, 287:24,
307:16, 310:21,
326:11, 331:13

guesstimate [1] - 186:10 guidelines [1] - 274:25	308:19, 316:5 HEARING [4] - 317:18, 317:19, 336:22 hearing [15] - 170:23, 225:17, 225:21, 227:10, 228:18, 254:23, 290:14, 296:4, 314:20, 314:24, 315:2, 315:8, 316:5, 317:10 heat [3] - 205:15, 247:19, 254:4 heater [3] - 193:15, 193:16, 247:18 heaters [3] - 193:16, 213:20, 252:12 heating [3] - 213:18, 254:3, 287:20 Held [1] - 169:20 helicopter [1] - 279:5 help [6] - 225:1, 254:5, 263:8, 278:8, 310:18, 324:25 helpful [7] - 174:11, 196:6, 221:8, 229:19, 230:1, 315:23, 321:6 helps [4] - 172:19, 225:19, 242:16, 331:17 hereby [1] - 333:3 high [5] - 216:23, 230:25, 243:4, 306:23, 315:25 higher [9] - 186:13, 204:16, 242:20, 248:13, 272:25, 300:11, 300:17, 300:22, 319:1 highlight [3] - 274:6, 310:22, 327:10 highlighting [1] - 327:23 highly [1] - 284:23 Highway [1] - 245:4 Hill [1] - 246:12 hire [2] - 275:1, 293:2 hired [10] - 249:1, 273:21, 274:23, 292:2, 292:4, 292:12, 292:14, 292:16, 292:23, 293:20 hires [1] - 291:23 hiring [1] - 305:14 historical [8] - 204:23, 219:11, 219:16, 220:5, 220:8, 220:13, 236:22, 270:17 historically [7] - 205:4, 234:20, 268:24, 287:17, 313:12, 313:23, 314:19 history [8] - 182:15, 182:18, 182:21, 202:22, 202:23, 224:12, 321:3, 321:16 hit [1] - 187:3 hoc [1] - 199:7 home [3] - 201:15, 205:11, 247:19 homes [5] - 193:17, 213:18, 237:6, 252:18, 252:24 honest [1] - 325:16 honestly [1] - 316:21 hope [1] - 225:21	hopefully [4] - 172:23, 264:1, 300:13, 331:18 hot [3] - 193:15, 193:16, 211:4 hour [10] - 190:7, 227:6, 243:17, 244:13, 245:9, 245:17, 245:24, 246:4, 262:4 hours [3] - 207:12, 213:18, 213:19 household [2] - 215:22, 216:6 households [3] - 215:1, 215:10, 215:13 HOW [4] - 282:25, 283:1, 336:3 HPS [2] - 220:23, 221:1 hundred [1] - 300:9 husband [1] - 173:5 Hydro [2] - 228:22, 228:25 hydro [4] - 183:14, 184:10, 224:23, 243:5 hydrologists [1] - 233:13 hyperlink [1] - 226:7	258:20, 258:21 implementation [5] - 270:10, 277:24, 281:3, 284:2, 291:14 implemented [5] - 235:7, 285:25, 286:16, 291:12, 299:1 implementing [1] - 199:5 important [13] - 176:12, 180:19, 204:1, 205:6, 215:17, 223:23, 224:5, 236:17, 252:15, 255:19, 260:4, 277:21, 323:2 impossible [1] - 266:4 improve [4] - 248:9, 284:3, 299:7, 315:1 improvement [1] - 317:25 IN [10] - 225:14, 294:17, 297:19, 297:24, 319:16, 335:10, 336:8, 336:13, 336:16, 337:1 in-charge [1] - 270:6 in-service [2] - 246:19, 254:15 include [11] - 220:3, 234:19, 234:24, 236:22, 252:4, 277:25, 285:5, 308:1, 311:7, 319:2, 319:11 included [7] - 183:23, 192:20, 234:20, 249:21, 260:14, 281:5, 312:15 includes [6] - 184:15, 227:4, 250:14, 270:6, 279:5, 315:9 including [6] - 183:24, 184:20, 196:13, 212:16, 261:8, 322:20 income [11] - 215:1, 215:10, 215:13, 215:21, 215:22, 215:24, 216:6, 216:23, 216:24, 216:25, 310:7 incorporate [1] - 199:17 incorrect [1] - 275:17 INCREASE [2] - 294:17, 336:8 increase [12] - 186:4, 261:1, 261:4, 278:12, 284:4, 284:8, 290:20, 290:22, 291:11, 292:3, 294:6, 294:20 increased [2] - 243:23, 247:6 INCREASES [2] - 297:23, 336:15 increases [3] - 295:12, 297:14, 310:17 increasing [2] - 186:2, 248:8 incremental [6] - 174:21, 175:10, 180:13, 180:14, 180:16, 243:10 incur [1] - 253:24 incurred [5] - 252:16, 253:4,	277:22, 283:4, 311:6 incurs [1] - 315:4 indeed [1] - 331:7 Independent [1] - 246:7 indicated [10] - 223:14, 290:14, 292:23, 298:17, 303:23, 308:16, 309:23, 317:23, 318:3, 329:8 indicates [2] - 302:6, 310:14 indirect [1] - 210:12 individual [2] - 236:7, 261:10 individuals [1] - 275:5 indulgence [1] - 192:8 industrial [6] - 242:7, 242:11, 272:1, 281:17, 281:19, 281:22 industrials [1] - 217:18 industry [6] - 207:8, 208:16, 209:23, 210:19, 211:12, 211:15 influence [1] - 229:1 influenced [1] - 290:10 influencing [1] - 229:3 Infor [2] - 285:13, 285:14 information [8] - 200:13, 268:21, 282:7, 282:16, 296:20, 297:12, 323:13 INFORMATION [2] - 297:19, 336:12 informed [1] - 200:21 inhouse [4] - 248:24, 249:1, 249:3, 274:16 initial [1] - 323:7 initiate [1] - 196:17 initiated [1] - 195:24 initiatives [4] - 228:23, 254:1, 304:17, 304:20 injuries [1] - 310:3 Inn [1] - 170:1 insight [1] - 217:6 inspection [1] - 274:14 inspections [1] - 275:8 install [2] - 193:15, 298:15 installation [2] - 193:21, 284:14 installed [4] - 237:22, 240:17, 240:19, 241:11 installment [1] - 237:5 instance [1] - 180:21 instead [2] - 214:7, 258:5 insulators [2] - 247:6, 282:14 Integrated [2] - 206:20, 301:22 integrated [2] - 209:5, 321:25 integration [1] -
--	--	---	--	---

314:16 integrity [2] - 228:2, 230:25 intended [2] - 181:7, 212:12 intending [1] - 313:2 intent [2] - 177:4, 307:12 intention [2] - 285:8, 320:3 intentions [1] - 323:17 Interconnection [1] - 254:10 interest [3] - 279:19, 279:24, 325:3 interested [3] - 307:21, 325:24, 326:17 interesting [2] - 282:18, 331:4 interim [1] - 174:21 internal [9] - 228:3, 231:8, 231:9, 274:1, 275:2, 275:7, 275:10, 279:2, 296:17 International [2] - 229:4, 320:8 interpretation [9] - 179:15, 179:16, 180:5, 180:9, 251:2, 257:24, 258:3, 258:19, 283:13 interpreted [1] - 236:24 interprets [1] - 179:22 interrupt [1] - 325:2 intervene [1] - 249:12 intervener [1] - 226:20 interveners [2] - 228:9, 331:15 introduce [1] - 202:18 Inventory [1] - 280:14 inventory [1] - 202:14 investing [1] - 206:9 investment [2] - 188:13, 234:20 involve [1] - 209:17 involved [2] - 195:7, 277:12 involvement [1] - 275:7 Iowa [4] - 318:6, 319:5, 319:6, 319:12 IOWA [2] - 319:20, 337:4 IPP [3] - 245:14, 266:8, 277:17 IPPs [1] - 245:3 IR [51] - 191:5, 191:9, 192:17, 194:14, 194:25, 195:1, 195:3, 197:9, 214:11, 214:12, 214:15, 214:23, 215:8, 215:9, 218:17, 221:13, 236:8, 237:14, 237:21, 238:11, 239:6, 239:9, 243:1, 243:25, 244:7, 246:25, 255:9, 270:5, 279:4, 281:15, 290:2, 298:10, 299:8, 301:6, 302:6, 302:10, 304:6,	308:7, 308:8, 310:4, 315:13, 317:2, 317:3, 319:17, 319:22, 328:6, 329:2, 334:21, 337:1 irony [1] - 227:9 IRs [13] - 174:5, 174:6, 174:7, 179:5, 191:6, 218:16, 237:8, 237:10, 237:11, 238:5, 255:6, 276:7, 304:6 IRS [2] - 221:12, 334:20 isolation [1] - 314:16 issue [11] - 172:9, 179:15, 210:21, 220:3, 225:5, 231:12, 234:11, 263:18, 266:25, 299:5, 324:20 ISSUE [2] - 225:12, 335:9 issues [14] - 172:22, 179:17, 198:25, 200:8, 220:10, 225:19, 229:20, 231:4, 257:1, 261:13, 263:19, 267:1, 267:3, 299:3 it's.. [2] - 273:14, 313:22 item [3] - 192:22, 236:8, 271:9 itemized [1] - 315:14 items [4] - 182:4, 226:21, 271:7, 314:3 iterations [1] - 175:17 itself [5] - 175:8, 185:1, 197:13, 321:22, 322:14	kilometres [1] - 300:9 kilovolts [2] - 247:7, 248:9 kilowatt [8] - 207:12, 243:17, 244:13, 245:9, 245:17, 245:24, 246:3, 246:4 kilowatts [1] - 281:19 kind [15] - 171:19, 187:15, 187:16, 196:4, 199:15, 207:22, 213:9, 215:25, 224:11, 230:8, 267:2, 301:8, 311:15, 314:4, 323:19 King [1] - 170:7 Klondike [1] - 245:4 knowing [2] - 307:21, 325:24 knowledge [5] - 217:2, 228:10, 287:21, 309:17, 315:16 KPIs [2] - 284:18, 285:7	228:11, 228:18, 229:9, 237:5, 239:9, 239:16, 245:11, 245:16, 246:11, 255:22, 259:21, 261:20, 265:20, 265:24, 273:6, 286:9, 288:22, 290:11, 298:9, 312:25, 317:11, 331:11 late [1] - 312:25 Lavalin [1] - 229:1 law [2] - 182:9, 251:1 lay [1] - 208:22 LCOC [3] - 245:6, 245:8, 245:15 leader [1] - 232:19 leadership [1] - 250:16 leads [2] - 183:2, 185:17 leap [1] - 199:13 learning [1] - 200:14 learnings [2] - 199:15, 254:5 least [1] - 270:12 leave [3] - 179:12, 286:5, 295:8 LED [3] - 218:15, 267:17, 268:3 legal [10] - 174:13, 174:15, 180:4, 219:22, 229:20, 250:22, 278:7, 278:10, 315:4, 316:12 legislation [6] - 179:14, 179:16, 179:18, 179:23, 192:2, 320:15 Lemke [1] - 170:11 LEMKE [1] - 172:18 length [1] - 282:4 lengthy [1] - 222:4 Lesley [1] - 170:8 less [13] - 175:19, 213:7, 213:22, 213:25, 252:2, 253:9, 253:15, 253:24, 261:3, 270:23, 308:10, 311:25 letter [5] - 238:16, 248:21, 250:11, 266:12, 303:23 level [9] - 179:17, 200:22, 229:17, 296:14, 314:14, 314:19, 315:15, 315:25, 316:9 levelization [1] - 213:1 levelized [4] - 210:25, 303:24, 304:8, 304:11 LEVELS [2] - 297:23, 336:16 levels [4] - 187:13, 243:4, 296:9, 297:14 liberties [1] - 190:25 licence [3] - 275:18, 276:12, 276:15 life [29] - 221:2, 266:5, 266:7, 266:19, 267:25, 268:2, 268:4, 272:18, 305:19, 305:23, 318:6, 319:12, 319:25, 320:5, 320:10, 320:22, 323:14, 323:17, 326:1, 326:11, 327:2, 329:7,	329:9, 329:11, 329:12, 329:21, 329:25, 330:4 LIFE [6] - 319:19, 321:11, 327:17, 337:3, 337:9, 337:15 light [6] - 205:17, 205:18, 209:22, 228:20, 247:4, 271:9 lighting [1] - 287:20 lights [1] - 182:25 likelihood [1] - 186:4 likely [3] - 285:4, 296:18, 311:5 limit [3] - 187:4, 189:7, 189:11 limited [2] - 298:17, 306:25 limiting [1] - 180:7 limits [1] - 188:1 line [65] - 177:16, 179:21, 180:4, 183:6, 190:5, 192:22, 193:3, 195:14, 218:22, 236:8, 239:23, 242:17, 245:3, 246:25, 247:1, 247:6, 247:10, 247:12, 247:23, 248:8, 248:10, 248:13, 248:16, 248:23, 259:15, 266:8, 267:12, 271:1, 271:7, 271:12, 272:19, 273:25, 277:6, 277:10, 281:5, 281:17, 281:25, 283:25, 286:9, 298:19, 301:11, 304:12, 306:15, 308:8, 308:11, 308:18, 309:1, 309:3, 309:9, 316:11, 321:21, 322:5, 322:12, 322:16, 322:19, 322:21, 323:4, 329:17, 329:19, 329:22, 330:9, 330:15, 330:19, 331:6 Line [1] - 254:14 lines [10] - 220:20, 221:15, 261:9, 272:17, 282:2, 282:4, 282:9, 282:19, 309:2, 312:11 LINES [6] - 221:11, 282:25, 283:2, 334:20, 336:2, 336:4 lips [2] - 171:3, 263:12 list [5] - 202:10, 238:24, 246:13, 246:15, 325:19 LIST [2] - 239:3, 335:16 listed [1] - 271:20 listing [1] - 297:4 lists [1] - 229:25 literally [1] - 187:12 live [2] - 181:6, 284:19 LNG [6] - 183:12, 233:23, 243:12, 244:24, 266:15, 268:6 load [34] - 174:21, 175:10, 182:20, 204:12, 204:18, 213:24, 214:7, 214:8, 223:7, 223:21,
J				
Jaimie [2] - 170:10, 289:24 January [1] - 291:18 Jason [3] - 290:17, 299:14, 310:21 Jeff [1] - 172:15 job [1] - 180:9 John [1] - 170:13 joined [1] - 172:17 jointly [1] - 203:16 judge [1] - 216:8 judged [1] - 240:22 July [1] - 295:7 jurisdictions [3] - 210:1, 210:13, 228:22 Justice [1] - 269:7 justified [1] - 252:20 justify [2] - 208:24, 275:25	K			
k [1] - 248:21 Keegan [1] - 170:15 keep [4] - 177:7, 182:24, 190:12, 205:23 Keish [1] - 170:1 Keno [3] - 281:18, 281:23, 322:17 key [8] - 177:18, 177:19, 197:2, 197:6, 201:1, 202:7, 205:24, 285:3 kickbacks [1] - 231:13	L			
L170 [4] - 282:3, 282:24, 309:2, 336:2 L2 [2] - 201:6, 201:8 labour [14] - 249:14, 249:16, 249:19, 250:9, 274:2, 274:16, 279:5, 290:9, 290:10, 290:24, 291:1, 291:7, 297:8 lack [1] - 208:11 lacking [1] - 280:8 Lakes [3] - 248:22, 254:10, 254:13 Landry [14] - 170:13, 171:9, 177:9, 180:6, 180:12, 191:18, 192:15, 214:16, 225:22, 226:6, 226:13, 226:21, 229:16, 325:19 LANDRY [29] - 171:2, 171:5, 171:11, 171:13, 171:22, 172:21, 179:13, 191:13, 191:21, 192:5, 192:13, 214:14, 214:18, 214:21, 225:23, 226:9, 229:13, 229:17, 263:17, 263:24, 264:9, 324:13, 325:2, 325:12, 325:21, 330:25, 331:4, 331:11, 331:20 landry [1] - 171:7 Landry's [1] - 171:3 landscape [2] - 205:1, 206:10 large [6] - 204:7, 204:17, 227:21, 235:2, 235:6, 254:4 largely [2] - 253:23, 290:10 larger [1] - 216:18 largest [2] - 239:21, 239:24 last [29] - 177:20, 202:21, 202:23, 203:3, 204:4, 219:23,	L			

223:24, 223:25, 224:4, 224:21, 224:25, 242:3, 242:13, 242:14, 257:25, 258:2, 258:5, 258:7, 258:10, 258:13, 258:21, 258:23, 259:3, 259:11, 259:24, 272:13, 302:1 loads [3] - 180:14, 180:16, 259:18 located [1] - 316:2 location [12] - 299:12, 299:22, 299:24, 300:3, 300:4, 300:5, 300:8, 300:12, 301:1, 301:2, 301:4 locations [3] - 303:2, 303:8, 311:22 LOLE [1] - 268:13 LONG [2] - 282:25, 336:3 long-range [3] - 231:21, 231:23, 263:11 long-term [13] - 176:11, 176:13, 176:15, 181:15, 183:19, 184:16, 187:22, 188:10, 232:10, 242:20, 259:17, 276:15, 305:4 look [21] - 175:1, 178:6, 199:21, 207:17, 208:6, 213:4, 213:15, 238:16, 250:24, 253:17, 268:13, 272:21, 276:6, 276:20, 277:18, 280:14, 301:8, 307:22, 315:21, 326:15, 326:18 looked [7] - 261:16, 261:18, 264:3, 287:20, 293:6, 306:17, 314:14 looking [18] - 191:8, 195:2, 195:13, 201:1, 202:10, 205:9, 214:12, 214:17, 218:20, 245:18, 246:19, 265:22, 276:24, 285:16, 314:15, 315:24, 325:3, 330:20 loop [1] - 287:6 loose [1] - 331:1 Lorelee [3] - 170:19, 333:16, 333:17 Lorrie [1] - 170:12 lose [3] - 180:22, 242:6, 242:9 loss [5] - 221:4, 239:22, 239:23, 247:1, 248:16 losses [7] - 246:25, 247:10, 247:12, 247:15, 247:23, 248:10, 248:13 lost [2] - 220:12, 227:5 love [1] - 226:7 low [36] - 174:2, 174:22, 175:10, 175:14, 180:19, 183:2, 183:17, 183:23, 184:3, 184:4, 184:19, 185:1,	185:10, 185:19, 185:25, 186:2, 189:16, 215:1, 215:10, 215:13, 215:21, 215:24, 216:6, 216:23, 222:22, 223:15, 223:20, 255:13, 256:16, 258:1, 258:6, 258:14, 258:20, 259:5, 260:2 Low [1] - 183:8 low-income [4] - 215:1, 215:10, 215:13, 216:6 lower [1] - 213:24 M machinery [3] - 266:16, 266:20, 268:8 madam [1] - 194:9 magnitude [1] - 303:25 main [4] - 175:7, 198:22, 318:14, 330:14 maintain [1] - 185:20 maintained [1] - 247:1 maintaining [2] - 176:2, 187:13 maintains [2] - 175:23, 176:16 maintenance [7] - 184:2, 280:10, 284:4, 284:6, 284:8, 290:4, 298:16 majeure [1] - 184:1 major [1] - 273:1 majority [2] - 215:19, 301:16 manage [4] - 188:17, 254:6, 275:2, 314:6 management [26] - 174:3, 178:6, 178:12, 190:8, 191:2, 192:21, 195:17, 195:23, 205:10, 207:3, 212:8, 212:11, 213:12, 233:4, 233:13, 236:11, 249:5, 251:1, 280:11, 285:23, 287:7, 287:10, 287:14, 287:22, 291:17, 313:4 Management [2] - 178:5, 280:21 management's [1] - 230:20 manager [11] - 248:24, 248:25, 249:3, 250:14, 250:20, 292:12, 292:24, 293:8, 293:11, 294:2 manages [1] - 184:3 mandate [3] - 179:19, 179:24, 180:5 manufactured [2] - 240:22, 247:16 March [2] - 284:19, 311:20 market [6] - 205:20, 243:15, 243:23, 244:10, 244:23, 306:25 match [1] - 320:5 matched [1] - 327:20 matching [3] -	326:10, 326:18, 327:2 MATCHING [4] - 327:16, 328:4, 337:14, 337:19 material [2] - 231:4, 231:9 materially [4] - 247:16, 247:23, 248:17, 322:7 materials [1] - 280:10 Materials [1] - 280:14 math [1] - 240:14 matter [1] - 316:18 matters [2] - 170:25, 230:10 mature [1] - 211:13 maximum [3] - 240:22, 241:1, 243:5 Mayo [7] - 235:8, 236:7, 247:22, 271:12, 275:5, 281:17, 322:17 Mayo-McQuesten [2] - 236:7, 271:12 McCullough [1] - 170:8 McQuarren [1] - 318:6 McQuesten [19] - 236:7, 247:22, 271:11, 271:12, 317:1, 317:24, 318:23, 319:25, 321:16, 321:19, 322:18, 322:24, 326:6, 328:9, 329:18, 329:25, 330:3, 330:5, 330:11 MCQUESTEN [2] - 321:10, 337:8 mean [23] - 171:25, 176:10, 192:1, 204:8, 204:24, 217:7, 217:19, 224:14, 225:3, 234:4, 235:19, 243:16, 264:25, 287:10, 298:21, 304:21, 311:24, 312:5, 322:2, 322:12, 325:2, 329:10, 330:10 meaning [1] - 284:23 MEANS [1] - 221:14 means [12] - 180:1, 204:10, 204:12, 207:10, 212:11, 212:25, 213:22, 213:24, 221:6, 253:15, 261:8, 309:21 meantime [1] - 173:6 measure [9] - 209:6, 209:15, 209:19, 210:17, 212:11, 212:23, 253:19, 253:20, 286:22 measured [1] - 209:14 measures [17] - 199:25, 202:10, 205:9, 208:2, 208:7, 208:14, 208:18, 208:23, 208:25, 209:11, 209:21, 209:23, 210:7, 210:16, 211:2, 216:7, 216:8 mechanics [3] - 187:10, 187:19, 189:4 mechanism [4] -	175:6, 185:2, 185:11, 269:4 mechanisms [1] - 285:7 mediation [4] - 234:1, 234:7, 235:13, 290:19 meet [8] - 197:23, 198:6, 198:7, 242:3, 242:11, 302:1, 302:4, 320:19 meeting [2] - 172:17, 216:10 meetings [7] - 197:11, 198:19, 199:7, 199:10, 199:16, 199:19, 200:20 megawatt [1] - 304:10 megawatts [26] - 199:23, 204:5, 204:11, 207:13, 213:17, 213:21, 214:3, 214:4, 214:6, 238:11, 240:1, 240:2, 240:4, 240:9, 240:10, 240:15, 240:16, 241:17, 241:18, 241:20, 241:21, 242:2, 242:5, 307:13 Member [3] - 170:7, 170:8, 170:8 memory [3] - 261:21, 293:15, 309:8 mention [1] - 225:24 mentioned [12] - 197:8, 204:4, 205:14, 205:15, 207:15, 293:4, 299:23, 300:24, 302:17, 306:16, 307:2, 326:2 message [1] - 172:20 meter [2] - 292:7, 292:8 method [1] - 215:24 methodology [1] - 234:14 metre [1] - 209:15 metric [1] - 299:13 metrics [2] - 216:8, 285:3 mic [1] - 190:20 Middler [1] - 170:8 midyear [1] - 221:24 might [20] - 178:24, 185:18, 187:18, 189:9, 199:13, 201:25, 214:25, 215:9, 215:24, 216:12, 221:23, 224:10, 264:22, 267:22, 305:17, 306:9, 314:9, 318:16, 320:17, 329:1 MILLION [2] - 321:9, 337:7 million [33] - 178:11, 186:3, 186:4, 186:10, 187:5, 187:6, 218:25, 220:24, 227:25, 251:23, 251:25, 252:1, 252:2, 270:12, 271:13, 271:14, 272:7, 273:4, 273:8, 273:17, 281:7, 296:25, 299:9, 310:12, 318:1, 318:2, 318:3, 318:24, 319:1,	319:24 millions [1] - 247:5 Milojevic [15] - 193:7, 195:4, 198:10, 199:13, 204:22, 207:15, 232:21, 232:23, 233:15, 288:23, 292:21, 292:22, 292:23, 303:22, 307:9 MILOJEVIC [81] - 173:22, 192:19, 192:25, 193:11, 194:3, 194:7, 194:18, 194:24, 195:5, 196:6, 197:24, 198:14, 198:22, 199:9, 199:21, 202:6, 203:1, 203:9, 205:5, 206:3, 206:22, 207:25, 209:10, 210:14, 213:3, 216:2, 216:4, 217:21, 217:23, 231:22, 232:24, 233:17, 237:3, 238:3, 239:22, 240:2, 240:6, 240:12, 240:19, 241:9, 241:14, 241:17, 241:20, 241:24, 242:19, 243:1, 245:7, 248:25, 249:4, 249:7, 251:20, 253:12, 254:13, 254:18, 255:9, 255:12, 265:14, 270:4, 270:15, 271:1, 271:7, 276:5, 276:19, 278:21, 278:24, 279:4, 286:17, 287:3, 287:9, 288:9, 292:14, 292:18, 292:21, 293:5, 302:12, 302:16, 303:3, 303:10, 304:4, 307:24, 334:5 Milojevic's [1] - 206:6 mind [3] - 177:8, 184:23, 316:14 MINE [2] - 321:12, 337:9 mine [32] - 180:22, 320:1, 320:10, 321:18, 321:20, 321:21, 322:3, 322:11, 322:15, 322:21, 322:23, 323:9, 323:10, 323:14, 323:17, 323:20, 328:11, 328:13, 328:24, 329:12, 329:15, 329:17, 329:20, 329:22, 330:1, 330:2, 330:5, 330:12, 330:16 mines [7] - 233:20, 233:22, 233:23, 261:8, 272:11, 273:7 Minister [1] - 269:7 minister [5] - 177:14, 269:14, 269:15, 269:24 Minto [8] - 328:10, 328:13, 328:23, 329:19, 330:1, 330:2, 330:5, 330:14 minus [2] - 186:3 minute [3] - 173:11, 173:15, 281:15 minutes [5] - 190:7,
--	---	--	--	--

218:4, 218:8, 328:24, 330:23 missed [3] - 214:14, 313:1, 313:2 missing [2] - 224:12, 264:21 mitigate [6] - 184:19, 184:23, 185:8, 185:21, 185:22, 200:25 mix [2] - 205:5, 281:23 MN [1] - 329:6 Mnt [1] - 329:6 mode [1] - 238:13 model [1] - 231:20 models [2] - 231:19, 232:11 modern [1] - 247:14 modules [1] - 280:9 Mollard [34] - 175:22, 176:21, 177:10, 180:13, 182:15, 183:1, 185:17, 189:2, 190:3, 207:14, 215:11, 218:22, 221:8, 222:4, 222:8, 222:21, 224:9, 225:2, 229:10, 230:16, 248:5, 256:11, 265:25, 270:16, 273:2, 279:8, 302:16, 308:15, 308:16, 309:18, 309:19, 317:7, 323:6, 326:1 MOLLARD [195] - 173:22, 174:24, 175:11, 175:25, 176:9, 176:20, 177:15, 178:23, 180:18, 181:3, 181:12, 182:1, 182:18, 183:5, 184:22, 185:24, 186:1, 186:6, 186:18, 186:24, 187:18, 188:14, 188:19, 189:22, 190:1, 207:9, 215:6, 215:15, 218:21, 219:18, 219:20, 220:18, 221:3, 221:25, 222:11, 223:2, 223:8, 223:13, 223:18, 223:23, 224:3, 224:13, 225:8, 227:23, 228:10, 228:13, 231:5, 231:15, 231:25, 232:6, 232:9, 232:16, 232:18, 233:25, 236:17, 237:13, 238:23, 239:11, 239:15, 243:13, 243:20, 243:22, 244:3, 244:5, 244:8, 244:15, 244:21, 245:19, 246:9, 246:15, 247:3, 248:6, 249:12, 250:3, 250:7, 250:17, 250:20, 251:5, 251:11, 251:17, 251:24, 255:18, 256:13, 256:23, 257:9, 257:15, 258:4, 258:8, 258:16, 259:1, 259:4, 259:13, 260:1, 260:9, 260:14, 260:19, 260:22, 261:12,	261:20, 265:14, 265:25, 266:2, 266:17, 266:22, 268:9, 269:3, 269:17, 271:15, 271:21, 271:24, 272:3, 273:9, 273:15, 275:16, 279:10, 280:1, 280:19, 280:23, 281:1, 281:11, 281:13, 281:21, 283:7, 285:24, 286:4, 286:6, 287:16, 288:4, 288:7, 288:13, 288:19, 288:21, 290:8, 293:23, 294:4, 294:8, 294:13, 294:23, 295:16, 297:17, 298:5, 298:23, 300:6, 301:1, 301:5, 305:12, 306:19, 308:23, 309:8, 309:12, 309:17, 309:22, 310:2, 311:17, 312:21, 313:11, 313:22, 314:13, 315:10, 315:16, 315:20, 316:3, 316:8, 316:10, 316:14, 316:21, 317:12, 317:14, 318:25, 319:8, 319:14, 320:2, 321:2, 322:16, 323:11, 324:1, 324:4, 324:6, 324:8, 325:8, 326:5, 326:13, 326:19, 326:21, 327:5, 327:10, 327:13, 327:22, 328:1, 328:16, 328:20, 329:13, 330:7, 330:10, 334:5 Mollard's [1] - 216:23 moment [1] - 229:19 money [12] - 178:3, 178:11, 185:6, 187:8, 188:19, 188:21, 189:15, 206:8, 271:25, 279:13, 312:5 monitor [1] - 187:16 monitoring [1] - 285:7 months [4] - 243:11, 243:19, 246:17, 255:23 morning [14] - 170:22, 173:25, 174:2, 181:4, 190:15, 190:16, 222:21, 222:22, 223:11, 223:15, 224:1, 259:14, 331:19, 331:23 most [7] - 189:8, 215:17, 241:5, 242:5, 244:16, 253:7, 291:6 motivation [1] - 217:14 motivator [1] - 313:9 Mount [3] - 245:5, 278:18, 278:20 mouth [1] - 286:5 move [13] - 173:7, 173:20, 188:7, 214:11, 233:20, 266:10, 290:5, 298:2, 308:6, 310:3, 312:9, 314:20, 316:24	moving [5] - 171:3, 226:19, 231:19, 254:7, 263:12 MUCH [2] - 283:1, 336:3 Mullen [1] - 170:12 multiyear [2] - 304:23, 308:17 must [3] - 227:25, 244:13, 320:9 mute [1] - 286:7 N N-1 [22] - 213:25, 239:7, 239:21, 239:24, 242:1, 242:4, 242:15, 265:21, 268:14, 300:16, 301:13, 301:23, 302:1, 302:4, 302:5, 302:14, 302:20, 302:23, 302:24, 303:11, 304:15, 305:8 name [7] - 194:20, 263:10, 289:24, 292:20, 318:5, 319:11 NAME [2] - 319:19, 337:3 nameplate [1] - 240:20 Nathaniel [1] - 170:18 Nation [3] - 234:25, 235:1, 235:3 Nation-owned [1] - 235:1 Nations [5] - 234:1, 234:7, 234:18, 235:14, 295:17 natural [5] - 182:13, 240:9, 241:8, 241:19, 241:20 nature [4] - 267:8, 284:23, 293:8, 314:15 near [1] - 254:15 necessarily [6] - 177:13, 179:5, 179:9, 273:14, 286:23, 293:9 necessary [1] - 177:12 need [32] - 174:16, 187:3, 187:20, 188:2, 192:2, 192:7, 192:11, 193:20, 194:15, 203:14, 205:22, 206:12, 213:7, 213:22, 213:25, 214:6, 233:24, 241:5, 241:23, 242:6, 274:18, 275:1, 275:7, 275:10, 293:1, 298:7, 302:19, 302:24, 303:7, 303:12, 304:3, 331:9 needed [4] - 191:23, 224:19, 302:22, 329:5 needing [1] - 253:17 needs [2] - 176:15, 182:14 negative [4] - 186:20, 186:22, 194:9, 310:6 negatives [1] - 311:9 negotiated [2] - 235:16, 290:20 negotiation [1] - 246:23 net [8] - 252:1, 267:6, 267:7, 268:10,	270:21, 271:15, 271:16, 310:7 never [8] - 175:19, 231:13, 268:22, 269:8, 269:9, 313:13, 314:14, 314:18 nevertheless [1] - 259:10 new [26] - 193:6, 199:18, 207:18, 211:18, 234:2, 247:5, 247:7, 247:14, 250:11, 250:19, 250:20, 270:3, 280:4, 288:25, 292:2, 292:13, 293:21, 294:6, 295:2, 304:19, 307:6, 308:1, 308:4, 312:12, 312:18 NEW [2] - 294:18, 336:9 next [22] - 185:18, 196:2, 205:18, 237:8, 254:17, 254:19, 257:2, 266:8, 266:11, 268:5, 276:21, 276:23, 278:16, 281:7, 281:14, 283:9, 284:9, 291:22, 293:17, 294:24, 296:8, 307:14 nice [1] - 331:22 night [1] - 331:25 nine [2] - 243:11, 243:19 NO [2] - 222:14, 335:1 nobody [1] - 322:21 non [8] - 174:15, 242:7, 242:11, 272:1, 281:17, 281:19, 281:22, 311:20 non-existent [1] - 311:20 non-industrial [6] - 242:7, 242:11, 272:1, 281:17, 281:19, 281:22 non-legal [1] - 174:15 none [5] - 171:2, 233:14, 266:20, 276:22 noon [1] - 262:3 normal [2] - 311:24, 320:16 normally [2] - 283:4, 312:1 North [1] - 245:4 north [3] - 300:9, 322:13, 323:4 Northern [2] - 246:8, 246:10 note [9] - 172:7, 172:24, 180:19, 204:1, 206:6, 215:17, 236:17, 323:2, 327:7 noted [2] - 237:21, 329:4 notes [1] - 333:6 nothing [6] - 171:15, 194:23, 194:24, 231:1, 270:13, 288:21 notification [1] - 246:10 notified [1] - 299:4 noting [1] - 229:8 November [12] - 179:3, 236:14, 236:19, 288:2, 288:5,	288:6, 288:7, 288:8, 288:12, 288:15, 288:17 NRCan [3] - 251:9, 251:19, 251:21 NUMBER [4] - 222:18, 319:19, 335:5, 337:3 number [33] - 172:1, 172:12, 186:14, 192:3, 214:15, 222:10, 229:9, 235:6, 237:11, 238:16, 241:16, 244:9, 246:1, 248:21, 249:18, 254:1, 255:10, 265:23, 267:6, 272:24, 276:9, 281:6, 281:12, 281:25, 291:2, 300:3, 316:6, 318:5, 318:10, 319:11, 321:5, 323:24, 323:25 numbers [6] - 232:12, 241:9, 243:14, 253:1, 306:23, 327:11 numerous [1] - 234:21 NY [1] - 237:21 NY-1-16 [1] - 310:5 NY-YEC-1-1 [1] - 298:12 NY-YEC-2-1 [1] - 238:6 O O&M [6] - 226:15, 249:17, 249:19, 250:9, 283:8, 290:5 o [1] - 250:11 objection [1] - 211:25 objective [2] - 185:15, 320:19 obligated [3] - 173:1, 188:5, 328:21 observation [2] - 230:24, 231:3 obsolete [1] - 266:3 obvious [1] - 185:18 obviously [6] - 176:24, 177:17, 177:19, 179:15, 179:23, 275:4 occasions [1] - 268:25 occurred [5] - 288:1, 290:16, 290:18, 308:21, 313:14 occurrences [1] - 185:25 occurring [1] - 184:21 ocean [1] - 225:3 October [3] - 292:24, 293:2, 293:14 OEM [2] - 267:4, 267:9 OF [34] - 221:11, 221:13, 222:15, 225:12, 225:14, 228:14, 239:3, 239:4, 265:10, 282:24, 294:17, 297:25, 317:16, 317:18, 319:18, 321:11, 321:13, 334:13, 334:20, 334:21,
--	---	--	---	---

335:3, 335:9, 335:10, 335:13, 335:16, 335:17, 336:1, 336:9, 336:17, 336:20, 336:21, 337:2, 337:9, 337:10 Offer [1] - 277:17 offer [7] - 197:4, 200:2, 231:11, 266:9, 277:24, 278:3, 306:1 offered [2] - 195:17, 197:17 offering [1] - 200:9 offerings [1] - 195:22 offhand [2] - 267:22, 291:2 Official [3] - 170:19, 333:14, 333:18 offline [2] - 294:9, 324:19 offset [3] - 189:17, 193:4, 251:12 offsets [1] - 251:17 offsetting [1] - 251:15 often [2] - 197:22, 235:19 Ohio [1] - 229:2 OIC [64] - 174:9, 174:19, 174:20, 174:23, 174:25, 175:3, 175:5, 175:8, 175:18, 175:23, 176:6, 176:10, 176:16, 176:17, 176:25, 177:12, 178:17, 179:2, 179:5, 179:9, 179:14, 179:16, 179:18, 179:22, 180:8, 180:15, 181:8, 191:1, 191:15, 196:9, 196:12, 196:15, 196:20, 196:24, 199:6, 203:11, 212:5, 212:6, 220:3, 220:6, 220:7, 220:10, 223:11, 226:1, 236:13, 236:18, 236:25, 250:24, 250:25, 255:14, 256:14, 257:4, 257:8, 257:14, 257:23, 258:19, 259:14, 288:3, 288:8, 288:9, 288:14, 335:22 okaying [1] - 268:16 old [4] - 220:23, 221:1, 266:14, 268:1 ON [6] - 221:10, 257:20, 283:1, 334:19, 335:20, 336:4 once [9] - 184:21, 185:3, 205:17, 241:5, 242:6, 275:9, 283:19, 291:9, 330:16 ONE [6] - 257:21, 257:22, 294:16, 335:21, 335:22, 336:7 one [75] - 171:14, 173:15, 181:7, 188:25, 191:4, 194:21, 197:2, 197:10, 201:17, 202:7, 204:23, 205:6, 212:5, 213:21, 217:1, 223:2, 225:24, 229:1, 232:24, 233:11, 233:19, 233:21,	235:12, 236:4, 237:9, 237:10, 237:12, 237:18, 250:14, 250:22, 250:23, 252:13, 257:7, 257:8, 261:23, 263:18, 263:19, 265:9, 265:18, 266:8, 266:11, 266:15, 267:11, 267:22, 268:5, 269:6, 273:6, 276:21, 276:23, 281:7, 281:8, 281:14, 283:9, 288:22, 292:3, 294:1, 294:5, 294:9, 299:21, 299:22, 302:20, 302:21, 302:24, 302:25, 303:5, 303:6, 303:7, 303:18, 309:23, 313:3, 321:24, 331:11 ones [2] - 236:10, 268:1 ongoing [2] - 203:3, 207:6 online [3] - 213:23, 270:2, 303:19 ONLY [2] - 257:22, 335:21 Ontario [2] - 228:25, 275:6 open [6] - 290:6, 298:10, 301:6, 310:8, 323:22, 324:10 opening [2] - 227:1, 272:16 operate [3] - 189:15, 233:24, 313:25 operates [2] - 175:24, 183:11 operating [1] - 290:4 operation [1] - 305:21 operational [1] - 187:10 operations [8] - 267:2, 287:11, 293:25, 294:3, 296:24, 301:23, 314:16, 322:23 OPERATIONS [2] - 294:15, 336:7 operator [1] - 294:7 OPERATOR [2] - 294:18, 336:10 operators [1] - 294:22 opinion [2] - 205:25, 272:5 opportune [1] - 190:13 opportunities [3] - 200:6, 234:20, 235:1 opportunity [6] - 197:20, 199:4, 216:10, 225:17, 256:10, 278:5 opposed [3] - 185:12, 320:22, 330:3 optimizes [1] - 212:14 option [5] - 272:21, 272:23, 304:10, 304:15, 305:7 options [4] - 208:25, 214:25, 215:9, 217:5 OR [2] - 297:25, 336:17 order [13] - 177:21, 179:17, 207:3,	216:15, 219:11, 223:9, 224:10, 226:13, 235:11, 237:19, 239:8, 255:19, 257:3 ORDER [2] - 225:12, 335:8 Order [8] - 222:24, 223:5, 224:9, 245:13, 245:22, 257:11, 296:6, 296:15 ordered [1] - 255:17 orders [1] - 223:12 Orders [1] - 256:18 organization [1] - 231:14 originally [1] - 196:8 OTHER [2] - 317:18, 336:21 otherwise [2] - 296:18, 297:7 ought [1] - 188:22 outage [1] - 283:3 outages [1] - 219:6 outcome [1] - 208:12 outlined [1] - 238:11 outlines [1] - 304:23 output [5] - 238:10, 240:22, 240:24, 241:1, 243:5 outputs [1] - 199:14 outset [2] - 202:17, 202:19 outside [8] - 189:23, 251:9, 273:20, 275:1, 296:11, 296:22, 297:7, 297:15 OUTSIDE [2] - 297:25, 336:17 OVER [2] - 321:11, 337:9 overall [6] - 199:22, 199:23, 242:2, 273:5, 284:3, 301:25 overarching [1] - 248:16 overhauled [1] - 265:24 overheating [1] - 238:14 overlap [2] - 276:2, 276:3 oversee [1] - 227:21 overzealous [1] - 226:8 own [5] - 170:18, 189:16, 197:5, 287:19, 329:19 owned [5] - 177:17, 235:1, 306:2, 306:3, 306:6 ownership [1] - 330:8 owns [2] - 329:17, 330:9	218:18, 220:20, 221:15, 238:16, 239:9, 239:10, 239:12, 239:16, 240:13, 241:14, 265:19, 266:12, 267:12, 276:9, 276:10, 281:14, 281:16, 283:24, 286:8, 290:6, 290:7, 291:19, 291:24, 292:10, 292:25, 293:17, 293:18, 293:24, 294:24, 294:25, 296:2, 298:4, 298:11, 301:7, 301:9, 302:10, 304:2, 304:7, 308:8, 310:5, 312:11, 314:22, 317:3, 317:5, 317:21, 318:11, 328:7 PAGE [4] - 221:11, 319:18, 334:19, 337:2 pages [7] - 195:13, 239:13, 264:21, 324:10, 324:11, 329:3, 333:4 paid [9] - 219:24, 234:15, 249:3, 275:12, 279:14, 313:5, 315:5, 316:16, 316:23 paint [1] - 306:13 pandemic [1] - 256:1 panel [10] - 173:9, 173:25, 174:13, 192:17, 218:14, 225:16, 226:19, 230:14, 289:3, 289:24 PANEL [7] - 173:24, 227:17, 265:16, 289:23, 334:7, 334:8, 334:9 panels [1] - 226:20 paragraph [5] - 184:15, 196:2, 286:9, 296:6, 296:12 paragraphs [1] - 296:1 parcel [1] - 254:22 pardon [2] - 270:19, 288:2 parent [4] - 177:23, 178:22, 220:16, 235:22 PART [2] - 221:10, 334:19 part [50] - 177:24, 178:1, 178:2, 192:3, 195:3, 195:9, 199:25, 200:23, 207:6, 207:25, 208:8, 208:22, 209:8, 214:17, 215:8, 216:7, 218:20, 218:23, 220:13, 220:20, 222:8, 227:3, 236:2, 251:15, 254:14, 254:22, 260:5, 261:17, 267:18, 269:7, 269:19, 283:7, 285:3, 298:19, 299:8, 301:24, 302:6, 304:16, 304:20, 310:9, 310:13, 313:11, 316:15, 317:5, 319:10, 324:20, 325:14, 328:8, 329:8 participants [5] - 193:22, 199:12,	253:14, 254:8, 263:7 participate [1] - 226:18 participating [1] - 225:20 participation [1] - 201:23 particular [12] - 205:24, 228:17, 231:12, 250:23, 251:15, 261:23, 267:16, 271:20, 275:19, 275:20, 277:7 particularly [6] - 199:1, 204:1, 234:13, 253:21, 254:2, 263:10 particulars [1] - 216:7 parties [1] - 226:18 parts [5] - 171:20, 266:4, 300:24, 302:11, 319:21 party [4] - 208:17, 210:1, 277:13, 284:14 passes [1] - 322:13 past [16] - 179:10, 181:20, 184:19, 202:21, 203:8, 206:2, 206:18, 215:16, 222:23, 223:15, 223:20, 224:8, 248:3, 287:19, 307:5, 307:18 PAST [2] - 225:11, 335:8 pay [17] - 178:13, 185:3, 185:11, 245:11, 245:17, 249:11, 249:25, 250:1, 252:7, 253:11, 261:8, 273:10, 273:15, 290:21, 290:23, 310:19, 316:19 paying [4] - 184:8, 245:9, 249:10, 273:7 payment [1] - 278:9 pays [2] - 184:25, 321:21 PDF [2] - 319:18, 337:2 pdf [33] - 183:4, 191:8, 191:9, 195:1, 195:2, 214:12, 218:18, 238:16, 276:9, 276:10, 290:6, 291:24, 292:25, 293:18, 294:25, 296:2, 298:4, 298:11, 301:7, 304:2, 304:7, 308:8, 310:5, 310:9, 312:11, 314:22, 317:3, 317:21, 318:10, 318:11, 324:10, 328:7, 329:3 peak [30] - 193:18, 200:25, 201:15, 204:7, 204:17, 204:21, 207:13, 213:13, 213:16, 213:19, 213:20, 213:24, 214:10, 241:5, 242:3, 242:4, 242:7, 242:11, 252:11, 252:14, 253:10, 253:15, 253:16, 254:4, 254:7, 282:1, 302:4, 303:15 Peak [6] - 194:14, 194:19, 194:21, 205:14, 209:13, 298:6
--	---	---	---	---

P

P.M [4] - 262:11, 263:3, 263:5, 332:1

P125 [2] - 283:10, 283:15

PACKAGE [2] - 265:10, 334:13

package [2] - 267:18, 281:3

page [59] - 183:4, 191:8, 191:10, 195:1, 195:2, 195:13, 214:12, 214:17,

peak-saving [1] - 204:21 peaks [1] - 211:5 penetration [2] - 205:20, 217:15 pension [3] - 312:10, 312:13, 312:14 people [3] - 227:3, 227:11, 268:8 per [13] - 196:20, 244:13, 245:9, 245:12, 245:17, 245:24, 246:3, 246:4, 299:12, 299:14, 306:20, 314:24, 315:21 percent [12] - 211:7, 215:19, 247:4, 251:19, 251:20, 272:11, 273:7, 273:10, 273:18, 290:23, 291:4, 291:15 percentage [2] - 290:24, 314:11 perfect [2] - 171:12, 289:11 perform [2] - 274:23, 275:3 performance [4] - 238:18, 284:4, 284:8, 285:3 performance-based [1] - 238:18 performed [3] - 277:2, 277:4, 284:16 performing [1] - 283:20 perhaps [7] - 173:7, 177:5, 179:13, 180:2, 197:11, 200:14, 253:9 period [13] - 181:24, 185:4, 186:23, 290:12, 290:13, 296:21, 297:1, 298:8, 299:17, 308:19, 309:13, 315:3, 326:3 periodic [1] - 198:18 periodically [1] - 232:1 periods [3] - 182:19, 182:22, 290:21 permanent [7] - 240:7, 240:15, 241:25, 242:12, 304:9, 304:12, 305:5 permit [2] - 264:6, 264:10 personally [2] - 230:24, 231:17 personnel [1] - 233:15 perspective [17] - 171:2, 171:15, 174:20, 175:6, 177:11, 177:12, 179:1, 179:20, 186:8, 191:23, 196:23, 200:4, 200:12, 248:17, 253:3, 264:25, 272:15 peruse [1] - 215:3 phone [1] - 264:1 phonetic [2] - 301:23, 314:2 pick [1] - 208:10 picture [3] - 243:7, 250:2, 306:13 piece [2] - 192:2, 266:18 pieces [2] - 201:13,	213:9 pilot [24] - 193:2, 193:8, 193:12, 193:15, 193:24, 194:5, 194:7, 194:13, 194:20, 194:21, 194:22, 205:14, 209:13, 237:1, 237:6, 253:5, 253:11, 253:22, 254:5, 270:7, 270:11, 271:4, 271:8 pilots [1] - 252:21 pinpoint [1] - 320:24 place [14] - 175:15, 211:25, 228:21, 230:23, 235:9, 236:13, 250:12, 264:16, 269:5, 285:3, 299:15, 305:5, 308:13, 320:17 placed [3] - 249:5, 252:5, 268:4 plan [39] - 194:7, 197:11, 197:22, 198:5, 199:3, 202:8, 204:3, 204:5, 206:13, 208:23, 214:3, 237:6, 237:24, 254:15, 254:22, 254:24, 255:1, 260:4, 268:14, 268:15, 268:16, 268:19, 269:5, 269:10, 269:11, 269:18, 269:19, 269:22, 269:25, 288:24, 304:23, 305:4, 305:5, 307:7, 312:14, 312:23, 313:7, 314:18 planned [3] - 184:2, 195:18, 283:18 planning [22] - 195:10, 196:13, 196:18, 196:22, 200:22, 220:2, 232:19, 232:21, 232:23, 232:25, 233:1, 233:16, 239:7, 280:10, 284:20, 285:4, 292:11, 292:16, 292:24, 293:6, 293:10, 293:11 plans [2] - 205:23, 269:2 PLANT [2] - 294:18, 336:9 plant [4] - 294:7, 294:22, 304:19, 305:5 play [1] - 280:5 please [21] - 174:25, 175:2, 195:7, 195:11, 212:2, 214:24, 215:7, 227:7, 227:12, 228:12, 230:13, 234:3, 239:9, 255:10, 257:4, 258:4, 263:10, 282:8, 289:21, 303:4, 319:7 plus [3] - 186:3, 274:13 point [24] - 182:8, 187:1, 187:23, 187:25, 188:15, 199:3, 202:1, 206:6, 206:7, 216:6, 216:21, 216:23, 226:13, 230:7, 252:22, 266:23, 272:4, 272:8, 273:6, 278:8, 284:17, 303:14, 319:6, 331:5	POINTED [2] - 321:14, 337:11 points [2] - 239:1, 252:9 policy [11] - 234:2, 234:8, 234:25, 235:3, 235:4, 235:7, 254:3, 266:18, 285:23, 285:25, 320:19 population [1] - 252:24 portion [1] - 308:9 portioning [1] - 261:13 position [32] - 175:22, 177:21, 181:17, 184:18, 186:21, 186:23, 249:1, 250:19, 250:20, 255:24, 292:3, 292:5, 292:7, 292:8, 292:13, 292:15, 292:17, 293:3, 293:6, 293:7, 293:14, 293:22, 294:1, 294:6, 294:7, 294:10, 294:20, 295:2, 295:7, 295:18, 310:7, 316:21 POSITION [4] - 294:16, 294:18, 336:8, 336:9 positions [3] - 250:1, 293:3, 297:5 positive [5] - 185:20, 186:5, 188:8, 188:9, 310:6 positives [1] - 311:9 possible [2] - 208:13, 287:25 post [1] - 210:22 posted [1] - 191:19 potential [4] - 198:25, 202:12, 287:3, 305:6 potentially [3] - 186:16, 201:18, 318:17 Power [2] - 239:18, 246:7 power [2] - 248:14, 329:17 practices [1] - 231:18 preamble [3] - 229:17, 229:24, 230:9 precise [1] - 218:14 predictable [1] - 283:5 preference [1] - 323:7 preliminary [3] - 170:25, 195:22, 236:10 premature [1] - 266:18 preparation [2] - 246:12, 256:5 prepared [4] - 227:4, 227:5, 243:24, 296:20 preparing [1] - 256:8 present [1] - 200:4 presented [1] - 215:9 president [1] - 295:17 pretty [9] - 182:2, 259:5, 272:6, 278:4, 305:18, 305:23, 307:2, 311:21, 318:20 prevents [1] - 215:25	previous [7] - 175:17, 188:25, 203:20, 259:15, 267:18, 291:8, 291:16 previously [6] - 173:23, 183:8, 203:18, 204:15, 265:15, 308:2 price [13] - 182:7, 243:15, 243:23, 244:6, 244:8, 244:10, 244:16, 244:17, 245:12, 245:23, 246:2, 285:13, 306:11 prices [6] - 182:10, 244:18, 244:19, 244:24, 306:20 pricing [3] - 300:14, 307:2, 307:22 primarily [2] - 289:25, 323:9 primary [4] - 185:15, 217:13, 301:12, 302:3 principle [4] - 176:10, 182:3, 259:19, 279:11 principles [1] - 320:16 PRIOR [2] - 225:11, 335:8 priorities [1] - 277:11 prioritization [3] - 308:18, 308:21, 309:14 prioritize [1] - 308:11 priority [1] - 204:16 pro [1] - 231:14 problem [8] - 171:14, 188:4, 198:16, 223:5, 253:5, 267:5, 286:8, 292:21 problems [1] - 173:4 procedures [2] - 227:19, 228:24 proceed [3] - 190:22, 227:16, 289:21 proceeding [8] - 203:4, 219:23, 255:22, 256:6, 261:2, 261:17, 269:20, 315:23 PROCEEDING [2] - 297:21, 336:14 Proceedings [1] - 170:1 PROCEEDINGS [6] - 170:21, 262:9, 262:11, 263:5, 332:1, 332:3 proceedings [6] - 215:16, 228:24, 234:13, 266:6, 268:25, 333:5 process [13] - 187:15, 205:2, 220:25, 235:5, 256:5, 279:18, 279:20, 299:1, 299:3, 299:6, 300:25, 309:25, 316:15 procurement [5] - 227:19, 228:23, 234:25, 235:4, 293:21 produce [2] - 213:21, 242:5 Producers [1] - 246:7 product [1] - 172:2 professionals [1] -	291:17 program [80] - 192:21, 193:5, 193:9, 194:19, 194:20, 195:19, 195:22, 195:24, 196:13, 196:17, 196:22, 197:2, 197:12, 197:19, 199:22, 199:24, 199:25, 200:4, 200:12, 200:16, 200:23, 201:8, 202:9, 202:17, 202:22, 203:17, 203:19, 204:15, 204:19, 207:6, 208:1, 208:17, 208:22, 209:21, 210:2, 210:17, 212:11, 212:12, 212:24, 213:12, 216:9, 218:15, 219:2, 219:5, 219:9, 233:2, 234:2, 236:24, 245:14, 252:10, 252:13, 252:25, 253:8, 253:13, 253:14, 253:15, 253:20, 253:21, 253:25, 254:6, 254:7, 266:9, 270:1, 270:6, 270:11, 270:19, 270:21, 271:10, 274:14, 277:12, 277:25, 278:1, 278:3, 280:4, 280:5, 286:15, 286:23, 287:8, 287:10 Program [2] - 276:25, 277:17 programming [4] - 202:4, 207:4, 215:12, 220:3 programs [42] - 193:6, 195:9, 195:17, 196:25, 197:4, 197:6, 197:17, 199:1, 199:5, 200:1, 200:8, 200:14, 200:15, 202:14, 203:7, 203:14, 203:22, 203:25, 204:21, 205:22, 207:11, 207:18, 208:9, 208:10, 209:1, 209:17, 210:13, 210:23, 213:23, 216:12, 217:9, 217:15, 219:10, 219:25, 236:23, 270:2, 270:3, 270:9, 270:13, 276:22, 286:19, 289:1 Project [2] - 254:10, 254:14 project [46] - 191:11, 206:1, 234:17, 234:19, 235:16, 236:1, 236:3, 236:5, 236:7, 236:9, 237:1, 245:5, 248:20, 248:25, 249:9, 249:21, 251:13, 251:17, 252:5, 253:6, 253:11, 271:4, 271:16, 272:12, 272:21, 279:17, 279:20, 279:23, 280:24, 281:2, 282:14, 292:12, 292:24, 293:8, 293:10, 307:11,
---	--	---	--	---

307:25, 308:3, 308:17, 308:18, 308:20, 308:23, 309:1, 309:7, 320:4 project's [1] - 307:12 Projects [1] - 249:25 projects [27] - 184:2, 233:1, 234:9, 234:18, 235:2, 235:6, 235:21, 245:6, 245:7, 246:6, 248:24, 249:6, 249:20, 267:20, 269:20, 269:23, 274:8, 274:12, 274:19, 276:14, 276:15, 281:9, 284:22, 290:5, 294:2, 309:13, 321:23 promote [2] - 212:12, 217:8 promotion [1] - 212:17 pronounce [1] - 292:19 proper [2] - 281:15, 286:14 properly [1] - 316:13 property [1] - 294:2 PROPOSAL [2] - 321:8, 337:6 proposals [1] - 176:8 PROPOSED [2] - 297:24, 336:16 proposed [3] - 291:21, 297:14, 310:10 proposing [2] - 312:12, 319:23 proposition [1] - 177:7 protected [4] - 182:9, 182:14, 223:25, 259:17 protection [5] - 176:11, 178:18, 181:19, 224:4, 259:22 protections [1] - 181:15 protects [1] - 244:23 proven [1] - 229:22 provide [29] - 177:18, 188:5, 195:11, 196:7, 200:18, 202:8, 214:24, 221:7, 222:9, 224:7, 225:2, 225:5, 231:8, 241:4, 244:9, 245:7, 251:19, 255:9, 257:5, 267:9, 269:18, 269:24, 290:20, 297:4, 297:11, 300:15, 301:25, 302:7, 315:17 PROVIDE [16] - 221:13, 222:17, 225:10, 228:14, 239:3, 257:18, 297:18, 317:16, 334:21, 335:4, 335:7, 335:13, 335:16, 335:19, 336:12, 336:20 provided [12] - 179:19, 194:4, 228:8, 252:8, 266:5, 267:5, 291:20, 295:21, 298:14, 300:10, 307:8, 316:9 provides [3] - 232:10, 276:11, 299:9	providing [4] - 201:5, 250:15, 285:15, 320:25 Province [1] - 333:8 provision [1] - 236:24 provisions [1] - 191:3 proviso [1] - 174:12 proxy [2] - 279:19, 279:24 prudency [4] - 207:20, 251:6, 254:16, 281:10 prudent [1] - 302:19 prudently [2] - 252:16, 253:4 PST [5] - 262:9, 262:11, 263:5, 332:1, 332:3 public [5] - 212:16, 217:4, 217:9, 217:16, 228:21 PUBLICATION [2] - 321:13, 337:11 publication [1] - 320:25 publicly [2] - 215:22, 323:12 published [1] - 323:21 pull [3] - 175:2, 293:1, 323:24 pulled [2] - 174:10, 192:17 pump [1] - 248:23 purchase [11] - 228:25, 244:2, 244:3, 246:22, 278:1, 281:2, 304:15, 305:6, 306:19, 307:20, 308:1 purchased [1] - 306:18 purchases [1] - 303:25 purchasing [3] - 293:20, 307:6, 307:23 purpose [9] - 172:12, 174:23, 197:15, 200:11, 286:18, 298:15, 301:12, 301:14, 322:14 purposes [3] - 178:2, 264:16, 328:18 pursued [2] - 304:14, 304:18 pursuing [1] - 287:7 putting [2] - 269:12, 285:3	211:23, 218:14, 222:19, 225:19, 226:10, 226:15, 226:19, 230:14, 230:20, 235:8, 237:8, 237:16, 244:25, 250:22, 255:4, 263:14, 265:17, 265:18, 267:11, 286:13, 290:4, 291:22, 328:25, 330:19, 331:14, 331:18 QUESTIONS [4] - 173:24, 289:23, 334:7, 334:9 queue [2] - 245:3, 246:13 quick [3] - 171:13, 173:11, 233:21 quickly [2] - 230:15, 256:1 quid [1] - 231:14 quite [9] - 206:11, 208:15, 211:11, 211:13, 211:14, 212:21, 306:22, 306:23, 308:19 quo [4] - 175:23, 176:3, 176:16, 231:14 quotation [1] - 215:8 quote [4] - 183:7, 184:13, 195:11, 297:2	185:11, 185:16, 186:11, 187:8, 216:15, 219:13, 219:17, 228:4, 249:24, 251:13, 252:7, 253:7, 253:11, 253:23, 254:8, 261:6, 261:11, 268:9, 270:20, 272:1, 272:2, 272:5, 273:4, 275:25, 310:19, 316:19 RATES [1] - 169:8 Rates [1] - 327:20 rates [15] - 176:12, 182:14, 185:12, 185:16, 186:9, 224:20, 224:22, 227:10, 245:19, 252:4, 253:25, 260:25, 261:3, 261:5, 290:9 rather [4] - 173:6, 184:7, 204:23, 216:13 rating [1] - 240:25 ratio [1] - 208:11 Raven [1] - 170:1 re [1] - 308:18 re-prioritization [1] - 308:18 reached [1] - 272:17 read [22] - 183:7, 184:14, 195:6, 195:14, 212:9, 214:23, 218:23, 219:4, 219:8, 220:21, 229:5, 250:13, 270:13, 284:1, 295:23, 295:24, 296:3, 296:12, 297:3, 301:11 reader [1] - 292:7 reader/office [1] - 292:8 readily [1] - 192:11 ready [14] - 173:8, 173:12, 173:17, 218:3, 218:10, 226:24, 246:16, 255:8, 263:13, 263:15, 289:8, 289:13, 289:18, 301:23 real [2] - 206:12, 252:10 realistic [1] - 306:7 realize [5] - 176:23, 250:21, 277:22, 283:4, 286:12 realized [1] - 228:16 really [29] - 173:19, 185:1, 186:12, 187:23, 196:1, 196:20, 197:6, 200:11, 201:3, 201:11, 204:17, 205:6, 205:24, 206:10, 213:13, 215:23, 226:7, 252:15, 252:20, 256:7, 306:7, 311:21, 313:9, 323:5, 323:18, 325:15, 325:16, 325:23, 329:20 reason [5] - 174:17, 176:17, 303:10, 304:21, 329:21 reasonable [5] - 210:23, 211:24, 303:6, 311:18, 330:22 reasonably [1] -	314:3 reasons [2] - 177:13, 265:20 rebates [1] - 201:6 receipt [1] - 256:25 receive [1] - 253:8 received [4] - 203:11, 246:10, 275:9, 306:17 recent [3] - 175:16, 207:4, 235:6 recently [4] - 234:22, 234:24, 244:16, 291:7 reciprocating [1] - 266:25 recognition [1] - 279:18 recognize [1] - 255:20 recognized [4] - 178:14, 196:10, 224:19, 299:2 recognizing [1] - 176:4 recollection [1] - 206:24 recommendations [5] - 250:25, 269:13, 269:21, 273:19, 274:9 Recommendations [1] - 274:11 recommended [1] - 274:24 recommends [1] - 291:10 recommissioned [1] - 237:23 reconcile [1] - 326:15 reconciled [2] - 260:17 reconvene [3] - 218:7, 262:4, 330:24 record [30] - 177:6, 182:2, 182:16, 185:13, 191:14, 191:15, 204:17, 207:23, 224:15, 225:20, 226:1, 230:5, 250:8, 255:3, 256:9, 264:7, 264:17, 265:2, 268:11, 268:19, 269:19, 282:17, 293:16, 295:23, 309:20, 313:16, 324:18, 324:21, 325:14, 325:15 records [1] - 321:4 recover [1] - 278:10 recovered [3] - 310:11, 315:6, 315:19 recruitment [1] - 193:22 reduce [6] - 185:8, 185:15, 193:18, 193:19, 248:12, 313:19 reduced [8] - 206:19, 206:20, 211:5, 237:24, 296:10, 297:15, 310:14, 311:1 REDUCED [2] - 297:25, 336:17 reduces [2] - 186:14, 253:15 reducing [2] - 214:8, 252:14 reduction [7] - 204:5, 208:13, 209:6, 209:16, 295:6,
---	--	--	---	--

313:20, 314:11 refer [6] - 181:12, 183:3, 238:4, 274:19, 276:5, 318:8 reference [16] - 174:25, 186:7, 197:12, 214:15, 224:8, 224:14, 225:3, 225:5, 225:25, 230:4, 243:1, 255:10, 280:20, 298:20, 304:2, 331:7 REFERENCE [2] - 225:11, 335:7 referenced [9] - 171:20, 194:14, 197:9, 241:9, 270:16, 297:2, 302:9, 309:19 references [1] - 196:2 referencing [4] - 203:10, 258:9, 270:5, 307:7 referred [6] - 204:9, 231:4, 232:11, 234:5, 236:22, 307:10 REFERRING [6] - 221:10, 282:23, 321:7, 334:19, 336:1, 337:6 referring [16] - 174:4, 191:1, 231:11, 231:17, 237:14, 239:11, 240:12, 241:10, 255:1, 256:23, 257:10, 274:7, 276:8, 289:25, 304:6, 304:13 refers [1] - 203:2 refine [1] - 254:6 reflect [2] - 181:10, 240:6 reflected [2] - 270:4, 310:15 reflective [2] - 243:15, 325:25 reflects [3] - 176:13, 238:10, 279:22 refresh [2] - 205:23, 206:12 refund [2] - 187:8, 189:8 refurbish [1] - 308:17 refurbished [1] - 309:3 refurbishing [1] - 282:2 refurbishment [3] - 279:5, 308:11, 309:1 REFURBISHMENT [2] - 282:24, 336:1 regard [2] - 208:15, 235:3 regarding [8] - 174:20, 175:9, 196:25, 251:1, 257:1, 270:17, 295:22, 296:1 regardless [2] - 243:8, 323:15 regards [2] - 200:12, 205:15 regularly [1] - 226:18 regulated [1] - 239:1 REGULATED [2] - 239:5, 335:17 regulation [4] - 238:19, 238:21, 238:22, 314:4 regulatory [6] -	186:16, 234:12, 238:18, 313:18, 314:6, 316:15 RELATED [4] - 321:10, 321:13, 337:8, 337:10 related [13] - 180:17, 183:21, 219:1, 234:13, 235:2, 272:12, 277:22, 297:8, 310:10, 310:15, 315:1, 319:24, 320:25 relating [1] - 267:19 relation [5] - 263:21, 298:21, 316:12, 316:19, 321:17 RELATION [2] - 319:16, 337:1 relations [2] - 217:4, 295:17 Relations [1] - 235:23 relative [1] - 208:6 relevance [1] - 230:11 relevant [1] - 328:14 reliability [3] - 299:3, 299:7, 302:17 reliable [3] - 280:6, 305:14, 305:17 relies [1] - 304:24 rely [5] - 214:10, 231:20, 237:8, 238:21, 303:7 remaining [3] - 193:4, 302:7, 302:8 remarks [1] - 227:1 remind [1] - 175:13 reminder [3] - 227:1, 263:8, 263:9 remote [1] - 238:13 removal [1] - 278:25 remove [2] - 174:20, 175:8 removed [1] - 278:21 renewable [14] - 204:3, 213:6, 214:2, 228:25, 254:15, 254:22, 254:23, 255:1, 268:19, 269:18, 269:25, 275:20, 304:22, 307:7 renewables [1] - 268:16 renewal [1] - 275:18 rent [2] - 242:13, 298:14 rental [19] - 204:13, 213:25, 241:23, 274:2, 298:3, 299:10, 300:22, 301:15, 301:21, 301:24, 302:7, 302:8, 302:14, 304:11, 305:14, 305:16, 305:18, 306:21 rentals [10] - 240:5, 240:7, 274:16, 298:15, 301:12, 302:4, 303:24, 304:9, 305:2, 305:20 renting [4] - 302:18, 307:16, 307:20, 307:23 repeat [7] - 215:7, 223:2, 223:19, 245:25, 258:4, 303:4, 326:13 rephrase [1] - 230:3	replace [4] - 282:14, 307:13, 308:2, 308:4 replaced [2] - 247:5, 248:18 replacement [6] - 219:1, 267:10, 273:2, 283:11, 307:11, 307:25 replacements [1] - 247:8 replacing [4] - 238:17, 272:19, 283:19, 283:21 report [17] - 188:3, 198:6, 198:23, 207:23, 208:14, 209:2, 236:7, 236:19, 255:24, 256:8, 269:6, 269:19, 269:25, 275:8, 275:9, 288:16, 298:23 Report [1] - 257:6 REPORT [2] - 257:20, 335:20 reported [1] - 256:21 reporter [3] - 198:11, 222:3, 263:9 REPORTER [6] - 233:9, 245:25, 246:5, 248:5, 248:7, 260:21 Reporter [2] - 333:14, 333:18 Reporters [1] - 170:19 reporters [1] - 172:7 reporting [7] - 178:3, 198:18, 198:20, 199:4, 207:16, 233:19, 235:19 Reporting [1] - 320:9 reporting-up [1] - 198:20 reports [5] - 198:1, 206:25, 207:21, 233:18, 233:19 representatives [3] - 197:25, 198:3, 246:11 represents [1] - 227:11 request [7] - 203:7, 228:12, 268:20, 313:6, 317:8, 327:5, 329:10 requested [3] - 228:11, 269:24, 283:12 require [1] - 201:25 required [14] - 186:15, 188:3, 198:8, 231:7, 232:3, 277:13, 298:22, 301:20, 303:2, 312:16, 312:19, 314:2, 322:3 Requirement [2] - 249:13, 249:18 requirement [17] - 176:13, 236:1, 249:15, 249:21, 249:24, 259:21, 260:13, 260:18, 261:14, 268:21, 305:2, 308:11, 315:7, 316:13, 316:20, 321:20, 328:17 requirements [4] - 204:6, 293:7, 312:15, 329:10 requires [1] - 329:11 research [1] - 238:24 reserve [34] - 172:11,	174:3, 174:22, 175:10, 175:14, 180:19, 183:3, 183:17, 183:23, 184:3, 184:5, 184:19, 185:1, 185:10, 185:20, 185:25, 186:2, 188:12, 189:17, 222:21, 222:23, 223:15, 223:20, 255:13, 258:14, 258:20, 259:6, 260:3, 292:24, 310:3, 314:21, 315:8, 316:5, 317:11 RESERVE [2] - 317:19, 336:22 Reserve [1] - 183:8 residential [7] - 193:2, 193:8, 194:12, 194:19, 216:16, 270:8, 322:9 resolution [2] - 171:13, 172:6 resolved [1] - 172:10 resource [14] - 237:24, 254:21, 254:22, 268:14, 268:15, 268:16, 269:1, 269:5, 269:10, 292:11, 292:16, 293:5, 293:10, 293:11 resources [2] - 240:8, 304:25 resourcing [1] - 215:14 RESPECT [2] - 294:15, 336:6 respect [9] - 236:19, 249:14, 266:24, 291:25, 292:10, 293:19, 293:24, 294:25, 328:19 respecting [1] - 236:18 respectively [1] - 318:1 respond [2] - 189:21, 303:20 responded [4] - 237:3, 238:17, 243:25, 259:13 responding [1] - 277:11 RESPONSE [2] - 297:19, 336:13 response [39] - 193:2, 193:8, 194:12, 194:14, 194:19, 195:12, 215:2, 219:8, 220:20, 238:4, 238:6, 238:17, 239:7, 239:13, 256:24, 270:8, 276:6, 276:8, 276:17, 297:12, 298:11, 298:17, 299:8, 302:6, 304:6, 306:16, 307:7, 307:8, 310:13, 310:23, 315:13, 317:4, 317:5, 317:23, 319:13, 319:22, 325:11, 327:7, 329:8 responses [16] - 181:4, 191:5, 191:8, 236:8, 255:6, 290:2, 290:3, 298:11, 298:13, 301:6, 308:7, 310:4, 317:2, 328:7, 328:8, 329:3	RESPONSES [2] - 319:17, 337:2 responsibility [1] - 250:15 responsible [2] - 201:14, 269:16 rest [1] - 225:21 restate [1] - 326:9 RESTATE [4] - 327:14, 328:2, 337:13, 337:18 restated [1] - 326:20 restatement [2] - 327:9, 327:25 restrict [2] - 174:14, 230:14 result [9] - 181:23, 198:17, 198:22, 253:2, 300:15, 312:15, 327:8, 327:11, 327:24 resulted [3] - 206:19, 256:5, 296:16 resulting [1] - 292:3 results [4] - 177:20, 232:7, 252:10, 313:13 resume [1] - 263:13 RESUMED [1] - 263:5 retail [1] - 215:18 retained [1] - 220:6 retire [1] - 307:14 retired [7] - 265:22, 307:5, 307:14, 307:17, 308:2, 308:3, 308:5 retrofit [2] - 218:15, 221:16 retrofitted [2] - 267:14, 268:2 retrofitting [2] - 221:21, 222:6 RETROFITTING [2] - 222:14, 335:2 return [12] - 174:2, 188:11, 188:22, 238:21, 272:12, 273:12, 279:15, 279:16, 298:3, 313:21, 314:10 returns [1] - 217:1 Revenue [2] - 249:13, 249:18 revenue [18] - 176:13, 235:25, 249:15, 249:21, 249:24, 259:20, 260:13, 260:15, 260:18, 260:24, 261:3, 261:5, 261:14, 312:15, 315:6, 316:13, 316:20 revenues [2] - 180:22, 260:11 review [14] - 207:21, 210:22, 254:17, 269:1, 269:7, 269:22, 273:21, 274:9, 274:13, 274:19, 274:20, 274:21, 275:9, 314:9 reviewed [1] - 261:20 reviewing [3] - 254:16, 254:23, 313:15 reviews [1] - 208:17 Revised [1] - 238:15 revised [11] - 174:6, 218:16, 237:10,
---	--	--	---	---

237:11, 237:13,
238:4, 239:6, 243:9,
245:2, 248:19, 250:11
REVISED [2] -
221:12, 334:20
rewarding [2] -
229:1, 229:3
RFID [10] - 266:11,
266:13, 268:10,
310:11, 310:16,
311:3, 311:7, 311:10
RFP [4] - 300:12,
300:14, 300:24, 301:3
RFPs [1] - 285:19
Richard [1] - 170:6
rider [5] - 186:11,
187:7, 187:8, 188:6,
189:10
Rider [1] - 244:22
rights [1] - 188:20
risk [40] - 174:21,
175:9, 175:10,
175:16, 175:19,
175:20, 176:4, 178:7,
178:19, 178:21,
180:13, 180:15,
180:17, 180:21,
180:23, 180:25,
181:6, 181:10,
181:11, 181:23,
222:25, 223:6,
223:21, 230:21,
244:20, 259:11,
259:22, 279:13,
285:23, 313:4,
313:20, 313:24,
313:25, 314:7,
314:11, 314:14,
314:19
risking [1] - 238:13
risks [4] - 181:5,
182:5, 313:17
Road [1] - 276:25
ROE [4] - 174:19,
181:10, 181:14,
181:20
Roger [2] - 170:16,
172:21
role [2] - 256:19,
293:10
roll [1] - 201:8
rolled [2] - 201:10,
316:6
rolled-up [1] - 316:6
rolling [2] - 200:22,
237:2
Rondeau [44] -
170:16, 172:14,
172:16, 173:3, 190:5,
190:10, 190:14,
218:3, 226:14,
226:16, 226:22,
226:25, 229:23,
230:3, 230:8, 230:18,
231:10, 232:9,
233:12, 234:3, 238:3,
239:1, 239:11,
240:13, 243:13,
250:18, 254:25,
257:9, 258:17, 259:2,
263:13, 263:18,
265:12, 268:18,
272:3, 274:7, 280:19,
282:13, 287:9, 288:4,
288:13, 289:5, 308:25
RONDEAU [17] -
190:11, 226:24,
227:14, 227:17,
228:16, 230:16,
239:6, 246:6, 248:8,

257:24, 261:22,
262:5, 263:15,
265:16, 283:3, 289:2,
334:8
Rondeau's [1] -
284:17
rough [1] - 305:23
roughly [1] - 178:10
round [1] - 265:18
Round [22] - 174:6,
174:7, 191:7, 194:25,
214:12, 218:16,
238:4, 255:6, 261:24,
276:7, 290:2, 290:3,
298:11, 301:7, 304:6,
308:7, 310:4, 310:8,
317:3, 328:7, 329:3
ROUND [4] - 221:12,
319:17, 334:20, 337:2
RPR [2] - 170:19,
333:17
rules [5] - 188:20,
258:18, 277:25,
314:1, 320:18
run [6] - 177:6,
179:15, 182:24,
238:12, 249:20,
287:11
running [2] - 193:22,
213:20
runs [2] - 287:5,
321:21
Rutherford [5] -
170:15, 303:21,
308:14, 308:16,
309:19

S

SABO [31] - 172:5,
172:13, 172:24,
173:10, 173:14,
173:18, 173:24,
177:9, 180:11, 190:4,
190:14, 190:23,
191:18, 191:25,
192:15, 211:22,
212:4, 214:16,
214:20, 214:22,
217:25, 218:12,
221:15, 222:19,
225:16, 226:6,
226:12, 325:5,
325:10, 325:18, 334:7
Sabo [37] - 170:9,
173:8, 173:17,
174:24, 176:22,
176:24, 177:4,
179:21, 180:2,
181:12, 186:24,
191:17, 191:22,
192:8, 192:14, 197:8,
200:18, 202:7, 206:5,
206:22, 207:9, 208:2,
213:3, 214:14, 215:6,
216:5, 216:21, 218:5,
218:10, 221:3, 222:1,
225:23, 226:9, 237:3,
286:12, 325:12, 331:6
Safety [1] - 274:11
safety [9] - 273:18,
274:8, 274:9, 274:13,
274:14, 274:19,
274:20, 274:21
sale [3] - 305:6,
306:1, 306:11
SAME [4] - 257:19,
297:18, 335:20,
336:12
sanctioned [1] -

268:17
SATCOM [1] - 247:9
satisfy [1] - 228:4
saving [2] - 204:21,
207:12
savings [16] - 204:2,
204:7, 204:11,
205:19, 208:21,
209:12, 209:20,
210:4, 210:8, 210:9,
210:18, 252:10,
252:13, 310:14,
310:20, 311:15
says.. [1] - 271:19
scenario [1] - 302:14
SCHEDULE [4] -
327:15, 328:3,
337:13, 337:18
Schedule [11] -
272:9, 318:11,
323:22, 325:7, 326:9,
326:15, 326:18,
327:1, 327:8, 327:20
schedule [5] - 199:8,
273:16, 322:5,
325:24, 326:23
scheduled [7] -
199:9, 199:10, 218:7,
270:2, 290:15, 308:3,
330:23
scheduling [2] -
280:10, 284:21
scholarship [1] -
234:23
scoping [1] - 195:22
screen [1] - 192:11
screenshot [3] -
264:4, 264:5, 264:10
se [2] - 306:20,
315:21
season [1] - 299:16
seasonal [1] -
213:11
second [8] - 214:19,
234:11, 265:18,
265:19, 272:8, 294:5,
295:6, 324:14
secondly [1] -
252:15
secretary [1] -
172:21
SECTION [2] -
321:12, 337:10
Section [4] - 174:19,
175:2, 212:7, 250:25
section [5] - 212:8,
212:10, 250:24,
320:24, 321:5
seeing [2] - 232:14,
243:10
seeking [1] - 312:17
seem [1] - 305:24
segments [3] -
309:3, 309:9, 309:24
select [4] - 208:9,
208:23, 209:1, 286:22
selected [1] - 199:25
selection [1] - 201:2
self [1] - 263:9
sell [1] - 306:14
senior [6] - 248:20,
248:23, 248:25,
285:4, 292:2, 292:12
sense [7] - 193:14,
197:19, 197:21,
258:15, 305:25,
327:4, 329:23
sensitivity [1] -
284:16
separate [5] - 269:7,

300:2, 323:23, 325:8,
325:13
separated [1] -
276:16
separately [1] -
237:10
SEPTEMBER [1] -
332:3
September [5] -
169:19, 170:5, 238:5,
263:2, 333:9
serve [9] - 214:10,
242:7, 242:14,
272:24, 297:6,
322:14, 322:20,
329:15, 330:14
serves [2] - 322:8,
322:11
SERVICE [4] -
319:19, 327:17,
337:3, 337:15
service [20] - 238:22,
246:19, 249:22,
254:15, 254:19,
272:20, 272:22,
284:20, 298:16,
298:20, 307:5,
307:18, 318:6,
319:12, 326:1,
326:11, 327:2, 329:9,
329:25, 330:4
services [2] - 275:12,
329:20
serving [3] - 322:13,
322:25, 323:10
Session [1] - 263:3
sessions [1] - 285:4
set [11] - 185:14,
223:22, 237:8,
249:14, 259:20,
276:22, 291:22,
299:6, 305:21, 306:6
sets [1] - 175:4
setting [2] - 176:12,
181:14
settled [1] - 290:13
seven [2] - 300:19,
306:14
several [3] - 204:4,
250:21, 300:8
severe [1] - 184:20
share [1] - 278:14
shareholder [2] -
220:19, 315:6
shareholders [1] -
220:17
sharing [2] - 200:13
sheet [14] - 186:25,
187:12, 187:14,
231:23, 231:25,
255:16, 256:20,
256:21, 257:2,
257:13, 258:25,
259:4, 259:24
sheets [1] - 257:5
SHEETS [2] -
257:19, 335:19
shift [3] - 213:11,
213:13, 259:11
shifted [1] - 181:23
shifting [2] - 214:8,
259:10
shipment [1] -
193:13
short [6] - 176:14,
232:4, 232:10,
232:17, 285:6, 305:8
short-range [1] -
232:4
short-term [4] -

176:14, 232:10,
232:17, 305:8
shortened [1] -
323:11
shortfall [4] - 265:21,
301:14, 304:16, 305:8
shorthand [2] -
333:5, 333:6
shortlisted [1] -
285:17
shortly [2] - 172:23,
199:18
show [3] - 235:12,
315:11, 315:15
showing [1] - 296:21
shown [3] - 276:3,
276:16, 280:18
shows [3] - 239:17,
250:9, 314:23
shutting [1] - 238:13
side [26] - 174:3,
190:7, 191:2, 192:21,
195:17, 195:23,
201:22, 204:5,
205:10, 207:3,
208:25, 212:8,
212:10, 213:12,
214:7, 232:25,
236:10, 251:1, 287:7,
287:10, 287:14,
287:17, 287:22
side/demand [1] -
287:22
sign [1] - 227:25
signed [3] - 246:21,
246:24, 252:23
significant [3] -
186:23, 206:8, 252:25
signing [1] - 227:24
SIM [1] - 231:20
Sima [1] - 245:5
similar [14] - 229:18,
232:7, 244:6, 247:21,
257:13, 297:10,
303:24, 305:16,
309:14, 312:23,
313:10, 313:18,
318:20, 328:10
similarities [1] -
328:12
simple [3] - 205:16,
235:12, 240:21
simplifies [1] - 265:5
simply [4] - 230:4,
270:9, 277:6, 285:15
single [2] - 239:18,
239:24
site [11] - 246:12,
278:22, 278:25,
302:21, 303:11,
303:18, 321:22,
322:22, 329:18,
329:20, 330:15
sites [1] - 303:19
situation [4] -
182:11, 224:18,
302:5, 329:24
six [1] - 306:14
skill [1] - 333:7
skip [1] - 235:9
slapped [1] - 235:10
slightly [1] - 319:1
slim [1] - 277:10
slow [1] - 198:12
small [7] - 201:25,
247:22, 248:15,
252:24, 267:13,
272:24, 293:13
Smart [5] - 194:15,
194:19, 194:21,

205:14, 209:13 smooth [1] - 183:11 smoothing [2] - 185:2, 185:11 SNC [1] - 229:1 SNC-Lavalin [1] - 229:1 SO [4] - 327:16, 328:4, 337:14, 337:19 so.. [1] - 172:3 socioeconomic [1] - 217:13 software [7] - 280:18, 280:25, 281:3, 281:4, 285:11, 285:15, 285:16 sole [1] - 228:24 solely [1] - 312:2 solicit [1] - 306:19 solution [5] - 201:14, 284:2, 301:25, 305:25, 306:8 Solution [2] - 287:2, 287:5 sometimes [3] - 264:12, 295:23, 320:12 somewhat [4] - 256:3, 300:7, 300:11, 320:13 somewhere [1] - 270:22 soon [1] - 190:12 sophisticated [1] - 217:12 sorry [48] - 173:3, 174:24, 176:21, 186:24, 188:18, 189:20, 189:22, 190:21, 198:14, 206:5, 214:14, 214:18, 214:21, 215:6, 223:18, 228:17, 233:9, 233:18, 243:13, 243:24, 245:25, 246:4, 248:5, 248:20, 250:3, 250:17, 252:2, 258:8, 258:11, 260:21, 270:18, 275:23, 280:19, 281:1, 286:5, 286:6, 287:9, 288:4, 288:9, 288:20, 292:19, 294:9, 303:3, 324:6, 326:2, 326:13, 328:20, 331:4 sort [6] - 199:22, 225:19, 231:4, 248:2, 263:11, 263:19 sorted [2] - 173:5, 263:7 sorts [2] - 217:17, 230:10 sound [2] - 171:4, 286:4 sounded [1] - 177:5 sounds [1] - 289:15 sourced [2] - 300:20, 300:21 sourcing [2] - 228:24, 325:20 Southern [3] - 248:22, 254:10, 254:13 spare [11] - 298:7, 298:15, 298:21, 302:7, 302:20, 303:5, 303:6, 303:7, 303:11, 303:18, 303:20	spares [3] - 298:9, 298:24, 303:7 speaking [7] - 198:10, 230:12, 253:12, 263:10, 282:2, 301:9, 305:22 speaks [3] - 246:25, 250:25, 255:13 SPECIFIC [2] - 321:12, 337:10 specific [16] - 186:7, 191:3, 199:24, 224:7, 230:20, 236:18, 274:7, 274:12, 276:12, 298:24, 300:3, 314:10, 315:13, 315:14, 320:24, 328:21 specifically [13] - 175:2, 267:7, 276:24, 283:17, 283:21, 298:19, 307:12, 310:23, 310:25, 311:1, 311:3, 311:8, 315:20 speculate [1] - 217:7 spelled [1] - 284:12 spend [1] - 312:5 spent [6] - 247:4, 270:11, 270:12, 271:5, 282:9, 282:19 SPENT [2] - 283:1, 336:3 split [3] - 249:16, 250:9, 261:16 spoken [1] - 171:18 spot [1] - 330:20 spring [1] - 325:9 spur [3] - 321:21, 322:5, 322:21 St [1] - 170:1 stacking [1] - 237:19 staff [4] - 275:2, 277:10, 296:17, 311:23 Staff [4] - 170:11, 170:11, 170:12, 170:12 staffed [2] - 294:10, 295:18 stages [3] - 196:21, 233:1 standard [9] - 208:19, 209:23, 210:16, 210:18, 211:15, 228:3, 244:17, 278:1, 278:6 Standards [1] - 320:9 standards [2] - 208:16, 231:8 Standing [1] - 277:17 standing [3] - 266:9, 277:24, 278:3 stands [1] - 279:25 start [4] - 174:18, 191:5, 200:22, 263:17 started [6] - 170:24, 224:24, 246:23, 258:9, 263:8, 289:13 starting [5] - 183:6, 218:22, 250:24, 290:4, 301:11 starts [1] - 218:18 STATCOM [1] - 247:9 state [3] - 239:20, 263:10, 291:23 statement [8] -	196:24, 219:15, 223:13, 223:19, 227:23, 267:13, 272:16, 304:1 States [1] - 229:2 states [9] - 183:6, 220:21, 229:4, 261:7, 297:3, 308:9, 310:9, 320:15, 328:8 stating [1] - 257:1 station [1] - 322:17 stations [1] - 205:13 Stats [1] - 215:23 status [6] - 175:23, 176:3, 176:16, 193:8, 246:7, 296:5 stay [1] - 218:3 staying [7] - 194:25, 291:19, 292:10, 293:24, 299:8, 328:6, 329:2 stead [1] - 170:18 steer [1] - 180:9 step [5] - 197:6, 221:4, 234:10, 237:15 still [23] - 180:21, 181:6, 194:2, 194:3, 194:4, 226:10, 231:20, 231:23, 238:21, 241:21, 242:21, 247:12, 249:5, 251:2, 251:3, 251:19, 251:22, 258:23, 275:1, 280:21, 313:8, 322:24, 322:25 stipulation [1] - 288:11 stop [1] - 174:15 stopped [1] - 270:7 stopping [2] - 211:25, 218:1 storage [1] - 248:23 story [1] - 285:6 strategic [1] - 285:4 strategy [4] - 196:11, 197:19, 208:9, 304:23 stream [1] - 260:12 streetlight [8] - 218:15, 219:1, 219:6, 220:24, 221:16, 221:20, 222:5, 267:15 STREETLIGHT [2] - 222:14, 335:2 streetlights [4] - 221:1, 267:14, 267:17, 268:3 stretching [1] - 188:15 structure [2] - 198:20, 231:9 structures [1] - 282:15 studies [8] - 202:23, 203:8, 203:9, 204:23, 204:24, 205:3, 206:15, 206:19 Studies [1] - 278:19 Study [1] - 276:25 study [4] - 202:24, 203:7, 277:1, 277:3 stuff [2] - 173:20, 287:17 sub [4] - 298:13, 301:7, 329:4, 329:14 sub-transmission [1] - 329:14 subject [17] - 186:24, 190:1, 192:25, 203:15, 206:22,	231:3, 231:6, 231:25, 243:22, 251:5, 256:16, 267:21, 300:24, 309:10, 317:22, 318:13, 329:13 submissions [1] - 180:10 subsequent [2] - 201:8, 320:7 subsequently [2] - 220:7, 256:3 subsidies [1] - 201:5 SUBSTATION [4] - 319:20, 321:10, 337:4, 337:8 substation [32] - 317:1, 317:25, 318:4, 318:7, 318:14, 318:16, 318:17, 318:24, 319:2, 319:12, 319:25, 320:22, 321:16, 321:17, 321:19, 321:22, 322:8, 322:13, 322:14, 322:19, 322:24, 323:4, 323:9, 326:6, 327:3, 328:9, 329:18, 329:19, 330:3, 330:9, 330:11 substations [1] - 247:5 successful [3] - 253:3, 283:22, 316:18 sufficiently [1] - 276:3 suggest [1] - 264:1 suggested [1] - 273:2 suggesting [1] - 306:10 sum [1] - 242:10 Sumanik [2] - 278:18, 278:20 summarize [1] - 203:5 summarized [1] - 297:3 summary [3] - 175:25, 240:14, 299:10 summer [1] - 213:6 supervision [1] - 250:16 supplier [3] - 298:16, 300:14, 300:18 Supplies [1] - 280:14 supply [23] - 193:20, 198:2, 204:9, 204:11, 208:25, 212:20, 212:24, 213:5, 213:10, 213:14, 214:5, 214:7, 216:15, 224:5, 224:23, 232:25, 287:7, 287:10, 287:12, 287:14, 287:17, 287:22 support [3] - 275:7, 277:14, 277:24 supported [1] - 181:20 supporting [1] - 315:18 surplus [1] - 243:3 surprises [1] - 178:15 switch [3] - 226:13, 295:20, 319:4	System [3] - 206:21, 239:18, 301:22 system [26] - 182:20, 182:23, 209:5, 240:5, 247:12, 247:14, 247:23, 248:15, 248:17, 272:11, 272:14, 275:4, 277:11, 280:6, 280:7, 280:17, 284:18, 284:19, 285:2, 285:10, 301:25, 303:15, 308:12, 315:9, 317:25, 319:3 system-wide [1] - 247:12 systems [4] - 239:17, 284:15, 287:20
T				
Tab [5] - 249:13, 249:18, 249:22, 250:8, 318:9 Table [14] - 232:9, 232:14, 257:6, 270:5, 274:11, 276:17, 276:18, 276:24, 277:18, 278:18, 280:4, 280:21, 291:19, 299:10 table [6] - 191:10, 219:19, 270:18, 271:8, 276:11, 284:12 TABLE [2] - 257:20, 335:20 tables [5] - 240:6, 267:23, 325:25, 326:10, 327:2 TABLES [4] - 327:15, 328:3, 337:14, 337:19 tangible [2] - 284:10, 284:12 tank [1] - 193:16 tanks [2] - 211:4, 299:20 target [2] - 216:14, 216:21 targeted [3] - 215:12, 215:13, 246:19 targeting [5] - 199:23, 205:4, 216:1, 216:12, 217:12 targets [1] - 204:21 taste [1] - 286:5 tax [1] - 217:1 team [5] - 233:4, 233:13, 233:16, 233:18, 250:16 Tech [1] - 277:4 technical [4] - 172:22, 173:4, 227:6, 229:17 technically [2] - 192:7, 264:15 technologically [1] - 227:4 technologies [1] - 205:21 technology [5] - 205:8, 205:11, 205:18, 205:19, 253:22 template [1] - 278:2 temporary [3] - 242:13, 294:21, 305:3 ten [5] - 204:3, 254:14, 301:1, 323:18, 328:24 ten-year [2] - 204:3,				

254:14 tend [2] - 180:6, 305:18 tendered [1] - 309:24 tendering [1] - 300:25 tenders [1] - 306:20 tends [1] - 182:19 term [41] - 176:11, 176:13, 176:14, 176:15, 181:15, 183:19, 184:16, 186:25, 187:12, 187:14, 187:22, 188:10, 208:4, 208:11, 231:23, 231:25, 232:10, 232:17, 234:5, 242:20, 253:17, 255:16, 256:20, 257:1, 257:5, 257:12, 257:13, 258:24, 259:4, 259:17, 259:24, 276:2, 276:15, 279:8, 292:17, 300:13, 305:4, 305:8, 305:25 TERM [2] - 257:18, 335:19 terms [22] - 177:2, 184:16, 191:2, 197:12, 199:14, 205:12, 206:11, 207:17, 211:8, 217:12, 230:11, 231:16, 235:16, 240:21, 241:1, 252:14, 253:1, 264:21, 298:25, 301:18, 320:25, 321:23 territory [3] - 234:18, 310:1, 311:23 test [14] - 193:22, 197:18, 208:5, 232:5, 237:4, 243:19, 244:2, 253:22, 298:7, 309:13, 312:15, 312:25, 314:25, 315:3 tested [1] - 211:16 tests [5] - 208:5, 211:9, 211:16, 253:19, 281:10 Tetra [1] - 277:4 text [1] - 176:19 THAT [12] - 222:13, 239:4, 239:5, 297:22, 327:16, 328:4, 335:1, 335:17, 336:15, 337:14, 337:19 that.. [1] - 325:14 therefore [2] - 253:3, 316:15 thermal [14] - 182:23, 183:12, 183:13, 183:21, 183:24, 184:9, 213:8, 213:22, 214:10, 245:21, 258:1, 258:6, 258:14, 266:25 THESE [2] - 283:2, 336:4 THEY [6] - 283:1, 327:16, 328:4, 336:3, 337:14, 337:19 they've [1] - 276:16 thinking [1] - 323:7 third [6] - 208:17, 210:1, 239:12, 277:13, 284:14,	294:19 third-party [3] - 210:1, 277:13, 284:14 thirds [1] - 331:17 three [18] - 174:1, 232:15, 233:5, 233:18, 241:6, 242:24, 247:5, 248:2, 283:15, 283:19, 284:24, 285:17, 290:1, 300:12, 309:2, 309:3, 309:4, 309:9 three-quarters [2] - 232:15, 242:24 three-year [2] - 248:2, 300:12 threshold [2] - 181:2, 187:14 throughout [2] - 247:24, 275:3 tick [1] - 265:9 tie [1] - 330:25 tied [3] - 254:1, 320:9, 320:21 TIME [4] - 294:16, 294:18, 336:7, 336:9 timing [2] - 196:7, 321:23 title [2] - 274:11, 293:10 TLR [1] - 277:12 today [11] - 174:1, 174:4, 202:15, 208:1, 227:6, 242:12, 272:9, 285:6, 286:17, 290:1, 323:19 together [6] - 199:2, 201:12, 203:17, 220:10, 286:18, 320:6 tomorrow [5] - 225:17, 330:21, 331:16, 331:19, 331:23 took [2] - 235:8, 236:13 tool [1] - 313:5 top [2] - 271:1, 325:1 topic [1] - 329:1 topics [1] - 308:6 total [6] - 213:20, 219:7, 270:21, 271:21, 280:15, 318:25 totalled [1] - 318:1 touch [2] - 172:21, 198:12 touched [3] - 288:14, 305:12, 307:9 touches [1] - 230:10 tough [1] - 210:21 towards [3] - 285:2, 317:24, 322:4 trace [1] - 284:7 track [1] - 311:14 tracking [1] - 282:1 traditional [1] - 234:18 training [7] - 234:23, 311:18, 311:19, 312:4, 312:5, 312:7 transactions [1] - 260:6 transcribed [1] - 333:6 transcript [5] - 172:8, 172:9, 292:25, 304:2, 333:4 Transcript [1] - 333:1 transfer [2] - 218:24,	294:2 transformers [5] - 247:8, 247:13, 247:15, 247:16, 299:20 Transmission [3] - 254:10, 254:14, 276:24 transmission [12] - 212:15, 239:23, 248:23, 271:12, 308:10, 308:12, 308:17, 309:1, 309:15, 318:14, 329:14, 330:15 transmitting [1] - 248:13 Transparency [1] - 229:4 transparency [3] - 235:13, 235:14, 235:15 transport [1] - 303:16 travel [10] - 274:2, 274:16, 310:14, 310:24, 311:13, 311:19, 311:22, 311:23, 312:2, 312:4 treat [1] - 189:5 treated [1] - 189:17 treatment [1] - 328:10 trick [1] - 209:4 trigger [3] - 187:14, 314:9, 314:12 triggers [1] - 186:25 tripping [1] - 303:22 trouble [2] - 259:8, 286:6 true [1] - 175:5 true-up [1] - 175:5 truly [2] - 189:14, 323:20 trust [5] - 184:17, 188:19, 189:15, 189:23 try [8] - 171:10, 173:5, 174:14, 217:3, 227:2, 258:16, 299:6, 318:10 trying [14] - 177:10, 178:25, 187:15, 205:2, 215:11, 217:8, 230:12, 241:22, 259:25, 315:23, 315:25, 324:16, 324:20, 331:14 turn [6] - 172:24, 212:6, 218:16, 239:9, 291:24, 317:4 turning [3] - 293:17, 294:24, 317:21 turnover [1] - 205:17 turns [1] - 225:24 two [33] - 195:13, 197:11, 201:11, 213:9, 213:18, 214:25, 215:9, 220:10, 221:19, 239:13, 245:20, 257:5, 284:24, 292:17, 293:3, 298:7, 298:9, 298:21, 299:21, 302:7, 302:13, 302:15, 303:1, 303:7, 303:8, 306:20, 309:3, 309:10, 313:11, 317:11, 329:16,	331:17 TWO [2] - 257:18, 335:19 two-part [1] - 313:11 two-thirds [1] - 331:17 two-year [1] - 292:17 type [11] - 210:17, 229:7, 229:11, 231:10, 264:21, 269:12, 269:13, 284:22, 285:15, 313:18, 314:5 types [7] - 190:24, 209:11, 209:21, 210:7, 217:4, 284:22, 306:25 typical [2] - 209:22, 238:7 typically [8] - 207:7, 208:5, 208:17, 210:15, 240:19, 244:15, 283:7, 314:15 typo [1] - 221:18	336:12, 336:13, 336:20, 337:1, 337:6, 337:13, 337:18 undertaking [14] - 197:1, 200:14, 203:19, 221:8, 221:25, 222:8, 228:12, 282:6, 294:12, 297:4, 297:11, 317:8, 319:10, 327:20 UNDERTAKINGS [1] - 334:17 undertook [1] - 272:21 underway [2] - 308:5, 308:20 unfortunately [2] - 263:25, 324:1 unidentifiable [1] - 311:9 union [1] - 291:2 unit [11] - 238:2, 238:12, 240:24, 266:2, 267:2, 298:20, 299:12, 299:25, 300:22, 303:18 units [34] - 238:7, 238:8, 298:7, 298:15, 298:18, 298:22, 300:19, 300:20, 300:22, 301:2, 301:15, 301:19, 301:21, 301:24, 302:7, 302:8, 302:14, 302:18, 302:22, 305:7, 305:14, 305:23, 306:2, 306:18, 306:21, 306:25, 307:4, 307:6, 307:17, 308:1, 308:2, 308:3, 308:5 unlikely [1] - 213:12 Unreportable [1] - 286:4 unsuccessful [2] - 220:8, 220:14 unsure [1] - 264:4 up [51] - 173:5, 173:6, 174:10, 175:2, 175:5, 176:8, 176:22, 185:4, 185:14, 187:8, 190:16, 192:11, 192:17, 197:25, 198:2, 198:20, 199:18, 204:20, 212:3, 214:9, 215:16, 225:4, 229:13, 233:18, 235:22, 238:12, 241:25, 243:21, 244:19, 245:18, 249:15, 252:23, 253:17, 261:16, 264:22, 276:6, 281:9, 290:18, 293:1, 299:6, 299:11, 301:6, 301:8, 304:3, 305:21, 306:6, 310:25, 316:6, 320:23, 330:25, 331:3 update [8] - 203:20, 205:7, 232:1, 237:1, 242:23, 243:11, 243:15, 255:24 updated [9] - 205:23, 232:1, 232:14, 232:16, 254:21, 267:14, 268:2, 279:21 updates [4] - 177:18, 198:18, 232:2, 232:3
--	---	--	--	--

updating [1] - 235:5 upgrade [2] - 271:12 upgrading [1] - 247:21 uprate [1] - 283:20 upside [1] - 187:5 uptake [8] - 210:4, 217:10, 217:15, 252:18, 252:22, 252:25, 253:3, 253:22 urge [1] - 227:1 USA [5] - 228:22, 315:12, 315:14, 315:19, 315:20 usable [1] - 266:1 usage [1] - 193:19 USE [2] - 297:25, 336:17 USED [2] - 257:20, 335:20 useful [3] - 284:20, 322:25, 323:15 user [2] - 252:19, 253:3 uses [3] - 211:15, 259:24, 311:3 USING [6] - 257:19, 257:21, 257:23, 335:20, 335:21, 335:22 UTILITIES [3] - 169:1, 239:4, 335:17 utilities [12] - 182:9, 198:4, 198:24, 210:13, 211:10, 211:19, 228:21, 238:25, 274:2, 284:15, 312:22, 320:16 Utilities [1] - 170:16 utility [32] - 176:4, 176:7, 182:5, 182:14, 184:6, 193:18, 197:16, 200:24, 201:7, 201:21, 201:24, 203:22, 205:12, 209:5, 209:13, 209:18, 211:3, 211:12, 212:16, 216:14, 224:18, 238:20, 272:18, 279:12, 279:18, 286:22, 305:15, 305:21, 313:5, 314:4, 320:14 utility's [2] - 184:12, 196:22 utility-deployed [1] - 286:22 utilize [2] - 201:9, 237:19	312:14 variations [5] - 182:10, 183:19, 184:16, 223:25, 244:23 variety [1] - 240:23 various [5] - 175:14, 179:17, 229:24, 234:8, 237:19 vary [1] - 182:12 varying [1] - 309:14 vast [2] - 215:19, 301:16 vehicle [2] - 200:22, 205:13 vendor [6] - 285:15, 299:4, 305:22, 306:1, 306:17, 306:21 vendors [1] - 306:23 verbatim [2] - 318:7, 327:24 verifiable [1] - 211:7 verification [7] - 206:25, 207:7, 207:16, 207:21, 208:16, 210:15, 246:20 verify [1] - 209:2 versa [1] - 303:17 versus [3] - 176:6, 299:25, 302:25 vertical [1] - 314:16 Vespa [3] - 170:19, 333:16, 333:17 VGC [10] - 316:25, 317:24, 319:23, 321:8, 326:12, 327:18, 328:5, 337:7, 337:16, 337:20 via [2] - 169:20, 170:1 vice [2] - 295:17, 303:17 Vice [1] - 170:7 Vice-chair [1] - 170:7 vice-president [1] - 295:17 Victoria [3] - 272:13, 329:17, 330:12 videoconferencing [2] - 169:20, 170:2 view [16] - 172:15, 179:2, 179:4, 179:7, 179:11, 181:22, 192:1, 202:18, 214:4, 214:24, 230:21, 230:22, 252:15, 253:4, 263:11, 314:8 views [1] - 213:2 virtual [1] - 312:7 virtually [3] - 311:19, 311:20, 324:16 visibility [2] - 209:18, 210:9 visible [1] - 173:1 volatility [5] - 185:12, 185:16, 186:9, 224:20, 313:13 voltage [1] - 248:13 Volume [3] - 169:18, 170:4, 263:1 VOLUME [1] - 334:3	waiting [3] - 172:20, 172:25, 256:11 walk [3] - 299:11, 303:8, 321:15 Ward [1] - 170:11 warranty [2] - 266:21, 267:8 WAS [6] - 225:13, 283:1, 294:16, 335:9, 336:3, 336:7 Water [2] - 183:8, 234:14 WATER [2] - 225:14, 335:10 water [60] - 174:2, 174:22, 175:10, 175:14, 178:6, 180:19, 182:11, 182:13, 182:19, 183:3, 183:15, 183:17, 183:20, 183:22, 183:23, 184:3, 184:5, 184:10, 184:19, 185:1, 185:4, 185:10, 185:20, 185:25, 186:2, 189:17, 193:15, 193:16, 211:4, 222:21, 222:23, 223:15, 223:20, 223:24, 224:5, 224:19, 224:24, 225:7, 242:20, 242:22, 243:3, 243:4, 243:8, 252:12, 255:13, 256:16, 258:1, 258:2, 258:6, 258:7, 258:14, 258:15, 258:20, 258:21, 259:5, 260:2, 260:3 ways [1] - 287:11 website [4] - 191:19, 226:2, 324:15, 324:17 week [1] - 246:11 weigh [1] - 188:24 weight [1] - 265:4 welcome [2] - 170:22, 263:6 WERE [6] - 222:16, 282:25, 283:1, 335:4, 336:3 WG1 [1] - 266:24 WG2 [1] - 266:24 WH1 [1] - 283:16 WH2 [4] - 283:9, 283:11, 283:20, 283:21 WHAT [2] - 221:14, 334:21 WHERE [4] - 225:12, 282:25, 335:8, 336:2 whereby [1] - 234:14 WHICH [2] - 321:12, 337:10 Whitehorse [15] - 169:21, 170:2, 170:15, 265:22, 283:16, 299:22, 300:1, 300:9, 300:11, 300:12, 301:1, 301:2, 302:21, 302:25, 303:17 whole [1] - 264:18 wholly [1] - 253:25 wide [1] - 247:12 WILL [2] - 297:24, 336:16 wind [4] - 183:14, 183:16, 183:20,	183:22 Wind [2] - 266:9, 278:18 winter [6] - 193:23, 213:7, 237:4, 241:5, 253:1, 299:15 WIP [2] - 307:11, 307:25 wiped [1] - 311:19 wish [1] - 262:1 wishes [1] - 170:25 WITH [2] - 294:14, 336:6 witnessed [1] - 231:13 witnesses [1] - 326:2 won [2] - 306:22, 309:23 wonder [2] - 191:13, 324:13 wondering [8] - 191:16, 199:14, 215:4, 220:25, 221:18, 311:11, 324:21, 325:16 word [2] - 184:22, 302:2 words [7] - 202:9, 214:5, 228:5, 270:3, 288:3, 312:18, 315:13 works [2] - 265:7, 284:6 world [2] - 182:3, 211:10 worry [3] - 180:16, 201:21, 278:11 worth [2] - 214:6, 272:7 wrapped [1] - 212:3 written [4] - 219:12, 219:16, 270:20, 271:3 wrote [1] - 220:14	299:2, 306:15, 307:5, 307:15, 307:18, 309:4, 309:10, 317:11, 320:23, 321:4, 322:24, 323:18, 323:21, 326:6, 326:22, 326:24, 327:21 YEARS [4] - 222:15, 297:21, 335:3, 336:14 YEC [123] - 169:8, 173:9, 173:25, 175:16, 178:22, 179:22, 180:8, 181:7, 181:11, 183:6, 184:3, 184:7, 184:18, 186:21, 188:8, 192:17, 192:20, 195:14, 195:15, 199:14, 202:20, 204:24, 206:18, 207:22, 218:17, 219:13, 219:17, 221:12, 221:16, 222:25, 223:6, 227:20, 228:2, 229:11, 230:4, 230:17, 231:18, 231:20, 231:23, 233:3, 233:23, 238:17, 239:4, 239:18, 241:8, 256:14, 264:5, 265:18, 267:13, 267:15, 269:16, 274:20, 285:16, 289:24, 290:9, 290:14, 290:24, 291:10, 291:20, 292:1, 292:2, 292:6, 292:11, 292:12, 292:16, 292:23, 293:20, 293:25, 294:14, 295:1, 295:2, 296:4, 296:7, 296:13, 296:16, 296:20, 297:5, 297:10, 298:6, 298:13, 298:22, 299:1, 299:8, 299:11, 301:15, 301:18, 302:6, 302:13, 304:14, 305:6, 307:5, 308:9, 308:16, 309:21, 310:5, 310:9, 310:13, 310:15, 310:18, 312:12, 312:17, 313:8, 314:23, 314:24, 315:4, 315:5, 316:18, 317:23, 318:3, 319:23, 320:25, 321:14, 325:6, 326:2, 328:8, 328:18, 329:8, 334:21, 335:17, 336:6, 337:11 YEC's [4] - 228:14, 321:7, 335:13, 337:6 YEC's [21] - 174:19, 177:11, 179:2, 179:4, 184:15, 187:17, 195:10, 195:19, 202:23, 210:24, 214:24, 251:2, 284:3, 298:17, 310:11, 310:19, 313:20, 313:21, 316:12, 318:4, 323:7 YEC-2-20(a) [1] - 283:3 Yee [10] - 170:18,
V vacant [1] - 249:2 validating [1] - 306:11 value [4] - 193:1, 200:17, 204:20, 330:11 valued [1] - 330:16 values [1] - 241:15 valves [1] - 267:2 VARIABILITY [4] - 225:13, 225:14, 335:9, 335:10 variability [3] - 224:23, 225:6, 225:7 variances [3] - 180:20, 191:12,	W wage [1] - 275:12 wages [4] - 249:3, 249:10, 249:25, 250:9 wait [3] - 248:20, 281:14, 302:9	Y YCL [1] - 239:18 YDC [1] - 251:9 YEAR [2] - 222:18, 335:5 year [47] - 180:22, 187:21, 189:6, 196:16, 196:18, 197:7, 202:13, 204:3, 222:2, 222:10, 232:5, 232:15, 237:5, 242:21, 242:23, 242:24, 243:3, 243:8, 243:11, 243:19, 244:2, 246:16, 248:2, 254:12, 254:14, 254:19, 255:16, 256:2, 256:9, 258:22, 259:7, 260:7, 273:11, 275:21, 279:22, 283:22, 284:19, 285:1, 285:2, 292:17, 296:25, 300:12, 303:15, 312:15, 313:1, 314:24, 314:25 years [41] - 186:11, 211:20, 217:8, 221:19, 221:22, 222:6, 228:11, 229:9, 234:16, 235:5, 247:17, 247:20, 259:21, 261:18, 269:8, 274:10, 274:20, 284:24, 286:2, 290:22, 291:9, 296:15, 297:13,	Y YCL [1] - 239:18 YDC [1] - 251:9 YEAR [2] - 222:18, 335:5 year [47] - 180:22, 187:21, 189:6, 196:16, 196:18, 197:7, 202:13, 204:3, 222:2, 222:10, 232:5, 232:15, 237:5, 242:21, 242:23, 242:24, 243:3, 243:8, 243:11, 243:19, 244:2, 246:16, 248:2, 254:12, 254:14, 254:19, 255:16, 256:2, 256:9, 258:22, 259:7, 260:7, 273:11, 275:21, 279:22, 283:22, 284:19, 285:1, 285:2, 292:17, 296:25, 300:12, 303:15, 312:15, 313:1, 314:24, 314:25 years [41] - 186:11, 211:20, 217:8, 221:19, 221:22, 222:6, 228:11, 229:9, 234:16, 235:5, 247:17, 247:20, 259:21, 261:18, 269:8, 274:10, 274:20, 284:24, 286:2, 290:22, 291:9, 296:15, 297:13,	

YEC 2021 GRA, Volume 2, September 28, 2021

171:23, 230:8, 237:11, 237:18, 263:22, 264:2, 264:9, 264:23, 265:6 YEE ^[1] - 265:7 Yee's ^[1] - 171:19 YEE'S ^[2] - 265:10, 334:13 yesterday ^[15] - 171:18, 204:10, 227:1, 229:18, 230:9, 292:19, 292:23, 293:13, 303:21, 304:11, 304:13, 304:22, 307:10, 308:14, 309:18 YIS ^[1] - 301:20 yourself ^[1] - 230:14 yourselves ^[1] - 295:24 YUB ^[12] - 219:11, 237:12, 244:22, 245:11, 246:25, 251:2, 257:22, 259:13, 261:24, 265:18, 269:1, 335:22 YUB-1-1 ^[1] - 243:9 YUB-1-11 ^[1] - 245:2 YUB-1-39 ^[2] - 248:19, 250:11 YUB-1-46 ^[1] - 250:21 YUB-1-59 ^[1] - 276:18 YUB-1-61(b) ^[1] - 251:7 YUB-1-73 ^[1] - 254:9 YUB-2-13(b) ^[1] - 267:12 YUB-2-14 ^[1] - 268:6 YUB-2-15(a) ^[1] - 268:13 YUB-2-17 ^[6] - 270:1, 271:11, 273:18, 275:18, 276:23, 277:17 YUB-2-19 ^[1] - 282:2 YUB-2-21 ^[1] - 283:9 YUB-2-24 ^[1] - 283:24 YUB-2-32 ^[1] - 286:8 YUB-2-33 ^[1] - 288:22 YUB-approved ^[1] - 245:11 YUB-YEC ^[1] - 265:18 YUB-YEC-1-1 ^[2] - 242:17, 243:2 YUB-YEC-1-110 ^[3] - 317:4, 319:22, 328:7 YUB-YEC-1-127 ^[1] - 329:4 YUB-YEC-1-59 ^[1] - 276:9 YUB-YEC-2-1 ^[1] - 302:10 YUB-YEC-2-17 ^[2] - 191:7, 270:5 YUB-YEC-2-3 ^[1] - 301:7 YUKON ^[1] - 169:1 Yukon ^[74] - 169:21, 170:2, 170:13, 170:14, 173:23, 175:15, 177:1, 177:17, 178:1, 178:2, 178:4, 182:18, 195:8, 195:16, 196:20, 197:1, 197:3, 197:25,	198:1, 198:25, 200:3, 200:9, 200:15, 200:21, 201:5, 201:10, 203:16, 203:17, 206:9, 206:20, 211:15, 215:17, 215:20, 216:10, 216:11, 216:13, 216:18, 229:10, 232:4, 232:20, 234:17, 235:20, 235:23, 236:14, 239:18, 240:15, 241:18, 244:14, 244:20, 247:4, 251:22, 252:6, 253:23, 254:2, 255:15, 265:15, 277:6, 277:20, 278:4, 280:5, 286:11, 286:14, 286:16, 286:18, 286:24, 287:7, 301:22, 310:1, 312:22, 312:23, 313:6, 325:13, 334:6 Yukoners ^[2] - 206:10, 252:17
Z	
	zeroing ^[1] - 171:19