

**IN THE MATTER OF the *Public Utilities Act*  
Revised Statutes of Yukon 2002, c 186 as amended**

**An Application by Yukon Electrical Company Limited and Yukon  
Energy for a 2009 Joint Phase II Rate Application**

**P R O C E E D I N G S**

October 5, 2010

Volume 1B

1:30 P.M. Session

**C. OSLER, E. MOLLARD, P. BOWMAN, S. DUNCAN, N. PALLADINO, B. DESJARLAIS**  
**Continued Cross-Exam by Mr. Buonaguro**

1 Proceedings taken at Hearing, The Yukon Utilities Board, held  
 2 at The Yukon College, Whitehorse, Yukon.

3 -----

4 Volume 1B

5 October 5, 2010

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|---------------|--------|
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| 15 J. Landry, Esq.    | For The Yukon Energy<br>Corporation |
| 16 M. Buonaguro, Esq. | Utilities Consumers' Group          |

|                            |                |
|----------------------------|----------------|
| 17 S.J. Lea Dormer, CSR(A) | Court Reporter |
| 18 D.J. Harmata, CSR(A)    |                |

19 -----  
 20 THE CHAIR: Good afternoon. So,  
 21 Mr. Buonaguro, if you want to continue from where you were,  
 22 that would be great.

23 MR. BUONAGURO: Thank you very much. Good  
 24 afternoon.

25 C. OSLER, E. MOLLARD, P. BOWMAN, S. DUNCAN, N. PALLADINO, B.  
DESJARLAIS (For YEC/YECL) previously sworn, cross-examined by  
 Mr. Buonaguro:

Q. MR. BUONAGURO: Gentlemen, I've got this in my  
 notes, which was ostensibly under the category of cost of

14:32

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1 service still -- classification allocation, and I'm going to  
2 go to YUB No. 4, and this is where I said I was going to come  
3 back to the Aishihik plant. And at part (c), at the bottom  
4 of the answer, the utilities state that: (as read)

5 "Under the current capacity criteria,  
6 Aishihik plant cannot be relied upon to  
7 serve peak loads at critical times and,  
8 consequently, can only be considered to  
9 provide an energy benefit to the  
10 system."

14:33

11 We compared that to a couple of statements: One  
12 was from YEC's application for an energy project certificate  
13 at page 26, and I'll paraphrase some of it. It was talking  
14 about Whitehorse, Mayo B and Aishihik in tandem. And on page  
15 26 of that application, there's this conclusion:

16 "As a result, the typical approach that  
17 would be used to stacking these three  
18 plans on a weekly basis is to maximize  
19 the reasonable output of Whitehorse as  
20 a first priority and then dispatch  
21 Mayo-B with the use of Aishihik being  
22 driven by loads in excess of the  
23 amounts that can be supplied by  
24 Whitehorse and Mayo."

14:33

25 We also compared it to a statement at CW2(e),

1    which I'll read which is very short. It just says: (as read)  
2               "Per the table below, over the past  
3               five years, Aishihik has provided on  
4               average 45 percent of WAF winter peak  
5               load and would be expected to  
6               contribute at this same level for the  
7               winter peak for 2010."

8               This lead to confusion on our part. There  
9    seemed to be an assertion that it wasn't for peak; it was  
10   purely considered energy, but then also there's these two  
11   statements which suggest that it's actually used for peak so  
12   we're asking you to reconcile those two views of the role  
13   that Aishihik plant plays.

14:34

14   **A.   MR. BOWMAN:**                   Thank you, Mr. Chair, members  
15   of the Board. The classification of Aishihik is an issue  
16   that is addressed in Tab 3 and that took a fair bit of  
17   thought and attention in preparing the bulk power methods for  
18   this cost-of-service study. Fundamentally when you're  
19   dealing with cost of service, you look at a series of  
20   different facts about the asset in question to help you  
21   determine whether you're going to classify it to demand in  
22   energy, and in particular, generation. Distribution is also  
23   classified to customer. And these can lead to, you know, a  
24   fair bit of debates before regulatory tribunals in places  
25   where this type of matter gets reviewed.

14:35

1                   In Yukon, the history has been Aishihik was  
2   classified 60 percent energy and 40 percent to demand, which  
3   is reasonably typical of hydro plants in a lot of the  
4   interconnected systems in Canada and that have Crown-owned  
5   utilities who are dominated by hydro.

6                   When we looked at it for this hearing though,  
7   we went back to first principals and said there has been some  
8   things that have changed on the system, and the particular  
9   one that informs the Aishihik classification is the system  
10  planning criteria.

14:36

11                  It's, you know a reasonably well-accepted  
12  methodology, and you'll find it in the literature, like, the  
13  manuals and the like that set out how to do cost-of-service  
14  studies. That one of the things you would look at and a  
15  relatively primary driver of how you look at classifying  
16  assets and cost of service is how you plan the system and  
17  what type of load drives investment in that particular type  
18  of plant.

19                  In the case of Aishihik, what we've learned  
20  through going through the capacity planning criteria, is that  
21  when you have a plant that that's large connected by a  
22  non-redundant transmission line, a single transmission line  
23  to the main load centers, you need to think carefully about  
24  the extent to which you reflected in your capacity-planning  
25  criteria. We did that during the resource plan process. We

14:36

1 engaged Dr. Billinton, who is a world expert on planning  
2 small systems, and his conclusion, and we brought that to the  
3 Board, is that when looking at the Aishihik plant, and when  
4 you're looking at the overall capacity planning criteria, you  
5 want to be very careful about giving Aishihik too much  
6 capacity credit, and in fact, in the N minus 1 criteria, we  
7 don't give it any capacity credit.

8 It's a huge source of supply for to the  
9 system. It tends to help meet peak load. It tends to be one  
10 of the bigger suppliers to meeting peak load at -- at winter 14:37  
11 times. But when it -- when push comes to shove, growth in  
12 peak on the system and customers who impose peak loads on the  
13 system are not driving investment at Aishihik because  
14 investment at Aishihik isn't worth anything from the overall  
15 capacity planning criteria. They're driving investment in  
16 plants on this side of that line or in diesel assets.

17 So something like a diesel unit that is  
18 installed entirely based on demand-related drivers on the  
19 system gets classified to demand. Something like  
20 Whitehorse 4, which is an almost entirely energy-driven 14:38  
21 resource get classified as 100 percent energy. And by the  
22 same logic and extension, Aishihik gets classified 100  
23 percent energy in this study. That's the proposed  
24 classification. And it's -- it comes fundamentally from that  
25 factor. That similar to something like wind or similar to

1 something like IPPs in other jurisdictions, when you're  
2 planning your system to meet your critical peak periods, you  
3 ignore Aishihik, because I can't count on that transmission  
4 line being up when I need it. I've got to design the rest of  
5 the system around the fact that that transmission line is the  
6 key link.

7 Q. So it sounds like as a practical matter and in the  
8 day-to-day operation the Aishihik plant is actually used to  
9 meet peak load, but because of the impact of the planning  
10 criteria on how you view the Aishihik plant, in particular,  
11 the N-minus-one criteria, you can't, from a planning  
12 perspective, count on it to meet the peak load. So that's  
13 why you use it or you define it as being energy?

14:38

14 A. MR. BOWMAN: Yeah. And that's true. And  
15 it's also, you know, similar to, say, wind or other resources  
16 that aren't dispatchable the same way or that you can't rely  
17 on them. From a practical point of view, jurisdictions that  
18 have a lot of wind installed will tend to have wind helping  
19 supply the peak load, but they don't plan their system  
20 assuming the wind will be blowing when it's a peak load.  
21 They tend to discount it. If not, take it completely out of  
22 the planning criteria, and as a result, when you do cost of  
23 service, you tend to allocate those type of assets to energy  
24 or classify them to energy

14:39

25 Q. Okay. I'm very hesitant to go down planning-criteria

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1 questions, but I just have one sort of clarification question  
2 I think. My understanding is that you have a combination of  
3 planning criteria. You have the N minus one, which is a  
4 fairly simple concept, but then there's also the -- and I  
5 can't remember which one you have and which one was proposed.  
6 It would be LOLE planning criteria?

7 A. MR. BOWMAN: The second criteria, which is  
8 not driving investment today; it's not the determining  
9 criteria, is an LOLE criteria. Loss of load expectation.  
10 "Probabilistic criteria" they call it.

14:40

11 Q. And just very quickly, there's -- are those two types of  
12 planning criteria always used in tandem or usually used in  
13 tandem, or is it only in Yukon or certain jurisdictions where  
14 they're used in tandem?

15 A. MR. BOWMAN: It's only -- it's only in  
16 Yukon, and the only other example we know of is  
17 Northwest Territories that uses them, particularly as it's  
18 done here. They're both relatively industry-standard thought  
19 processes, but typically they're applied differently to  
20 generation and transmission; whereas in Yukon, because of the  
21 type of transmission we're dealing with, which is really only  
22 designed to bring the generation to the load center, it --  
23 the transmission is integrated into the same overall  
24 calculations.

14:40

25 Q. Okay. And am I correct that as between the two planning

1 criteria, it's consideration of the N-minus-one criteria that  
2 drives the classification of Aishihik as being energy only as  
3 opposed to consideration of the LOLE criteria?

4 A. MR. BOWMAN: Not necessarily, but it -- but  
5 that would be the dominant -- you know, you -- when you're  
6 looking at capacity planning on this system, you need to meet  
7 both criteria. What we know from having run these types of  
8 models over the last while, the way the system is configured  
9 at this the point in time -- so as long as you meet the  
10 N-minus-one criteria, you're sure to meet the LOLE criteria,  
11 so it's a bit redundant at this point in time. But the  
12 N minus one is the driving factor, and that's the one that  
13 gives Aishihik effectively no credit. LOLE will give  
14 Aishihik some credit but quite diminished compared to any --  
15 an asset that would be -- generation that would be on the  
16 main grid.

14:41

17 A. MR. OSLER: If I could just add one thing  
18 in terms of basic principles, because the question has  
19 surfaced a few places. The fact that an asset is used  
20 typically or on average or something is not determinative to  
21 having it classified to demand. It's a question of how can  
22 you rely on it at the coincident peak. That's why wind  
23 -- that's why Aishihik -- and that's also why Whitehorse 4 in  
24 previous Board decisions was not classified at all to demand.  
25 We knew typically that Whitehorse 4 would contribute 4

14:42

1 kilowatts to demand --

2 A. MR. BOWMAN: Megawatts.

3 A. MR. OSLER: -- roughly, megawatts, sorry.

4 -- to demand in the middle of winter, but it could only be  
5 relied upon under draught conditions as far as we knew ten  
6 years ago to do about 19. And the other -- others already  
7 had 20, so it didn't add anything. In this filing, the  
8 difference factually is the evidence over the past decade has  
9 said, well, we actually think today we probably could rely on  
10 it for up to 4 megawatts. That is a different set of facts  
11 than we had ten years ago. But the key thing is not the  
12 average, it's what can you rely upon professionally or -- all  
13 the evidence at the time of the coincident peak. Given that  
14 you are going to -- given your methodology that says I'm  
15 going to allocate my demand costs based on the share that  
16 each class has of that coincident peak. They're sort of  
17 related to each other, what I'm saying. If that's your  
18 methodology, then that's your rule for how you allocate  
19 -- classify the costs.

14:43

20 Q. All right. Thank you. Thank you for those answers.  
21 Now, just sticking quickly with -- I hope quickly -- with  
22 YUB No. 4. At Part (c), there is a table that shows the  
23 outage data for the Aishihik hydro units. A quick question,  
24 under forced outages, are forced outages, as they're shown on  
25 this table, all necessarily unplanned? Are they synonymous?

14:43

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1     A.     MR. BOWMAN:                     My understanding would be that  
2     the table is designed to deal with unplanned outages as  
3     forced outages. The two are synonymous.

4     Q.     Okay. Thank you. And then I think further on in the  
5     answer it's -- sorry. Right after -- right at the beginning  
6     of Part (c) it says, "Review of the daily -- for 2006 to  
7     2009." Sorry, I got mixed up here. The very first part.  
8     "Outage data for the Aishihik plant from 1994 to 2005 is not  
9     available." We don't understand why that would be the case.  
10    Can you explain?

14:44

11   A.     MR. MOLLARD:                    I'd have to check that. I  
12   don't know off the top of my head why that's --

13   Q.     Okay.

14   A.     MR. MOLLARD:                    -- not available.

15   Q.     Because -- well, you'll see why we're questioning that,  
16   because it seems to us that generation outage data for this  
17   time period appears to have been provided to the Board during  
18   a review of the 20-year resource plan, and I can give you a  
19   reference for that. That was YUB-YEC-1-3 Part (e). It  
20   appears to us that the generation outage data was provided  
21   for that time period, so that leads us to think that maybe  
22   you're mistaken about this data being unavailable. So  
23   perhaps we can just do that by way of undertaking. If you  
24   can look into it if it's not too much trouble, to see if that  
25   -- that data is available.

14:45

1     **A.     MR. MOLLARD:**                     I will to that yes.

2     Q.     And you can use that reference to see if we're right,  
3     that similar data was actually provided. Thank you.

4                     **UNDERTAKING - TO REVIEW THE COMPANIES'**  
5                     **DATA AND PROVIDE THE OUTAGE DATA FOR**  
6                     **THE AISHIHIK PLANT FROM 1994 TO 2005**  
7                     **(SEE YUB NO. 4(C))**

8     Q.     Moving on to YUB No. 5. At Part (f) -- well, Question  
9     (f) was:

10                    Please provided a detailed explanation  
11                    complete with examples as to what wind  
12                    facilities are typically classified  
13                    -- as to what wind facilities are  
14                    typically classified as in Canada.

14:45

15     And at Part (f), the answer. You make reference to wind  
16     generation in B.C., Manitoba, and Newfoundland, Labrador.  
17     Are there any other references beyond those three that the  
18     companies used to come to the conclusion that in Canada, wind  
19     generation facilities are generally classified as 100 percent  
20     energy related, or is that -- is that the sample?

14:46

21     **A.     MR. BOWMAN:**                     **Mr. Buonaguro, when you're**  
22     **dealing with cost of service of this style, you have to start**  
23     **with places that actually still do generation cost-of-service**  
24     **studies. We gave three examples here of jurisdictions that**  
25     **we've done a fair bit of work in. I believe**

1 Northwest Territories had some wind, 100 percent energy.

2 They don't right now. Inuvik has some wind assets that would  
3 be 100 percent energy. And I'll not familiar with, say,  
4 Saskatchewan, and I think you'll find in something like  
5 Alberta, it's not the same set of facts.

6 Q. I see. So the beginning part of your answer, though, is  
7 that for many other jurisdictions when it comes to wind  
8 generation, they're simply not regulated, and therefore,  
9 there's no need for classification, or if there was, it  
10 wouldn't become before a regulatory board? Is that part of  
11 your answer? That's how I understood it. You would expect  
12 the sample size to be lower, because we're talking about  
13 generation.

14:47

14 A. MR. BOWMAN: The other clarification is in a  
15 lot of cases wind will be developed by independent power  
16 producers under a purchase power agreement, and sometimes the  
17 classification factors will be set for those IPP as opposed  
18 to based on generation per se.

19 Q. Okay?

20 A. MR. BOWMAN: But I think that you'll find  
21 that almost all the examples you find in Canada -- wind that  
22 is brought into a cost-of-service study -- are covered. Is  
23 that...?

14:48

24 Q. Okay. Thank you. Moving to CW-1(a). The question was:  
25 With reliance during the winter peak on

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1 a net contribution of 4 megawatts, the  
2 20 megawatt total capacity of  
3 Whitehorse, Unit No. 4, please explain  
4 why YUC would not allocate some  
5 percentage, for example, 20 percent, to  
6 demand and the remainder to energy."

7 With respect to Whitehorse 4, presumably. And the answer  
8 was:

9 It is not easy to quickly change just  
10 this one asset as described, but even  
11 in the extreme example that all Yukon  
12 hydro assets are changed to 40 percent  
13 demand and 60 percent energy; i.e. well  
14 beyond the change in the question, the  
15 net effect on residential class  
16 allocated costs is only in the order 1  
17 percent.

14:48

18 Now, my question in relation to this answer is this: Did the  
19 utilities review the actual use of all assets in order to  
20 functionalize, classify, and allocate asset-related costs  
21 using the causality principle? And I suspect you might be  
22 circling back to some of the answers you've already given me.

14:49

23 **A. MR. BOWMAN:** With respect to bulk power, we  
24 reviewed each asset, with respect to first principles for  
25 classification. It doesn't necessarily hinge on the use of

1 the asset for the reason that we covered. It's not just how  
2 is it typically used; it's how was the system planned, what  
3 type of underlying loads give rise to investment in the  
4 asset, what are the basic economic rationales for investment  
5 in the asset. Those criteria are much higher on the list  
6 than how's it typically used, but -- there was a review of  
7 each of the key assets and how they should be classified from  
8 first principles, yes.

9 Q. Okay. Thank you. Now, the last part of that answer  
10 was, "The net effect on residential class allocated costs is  
11 only on the order of 1 percent." Am I correct in assuming  
12 that you mentioned that in the answer not because that was  
13 part of the consideration but, rather, that just happens to  
14 be the fact in this case? And I want to just understand the,  
15 "Net effect on residential class allocated cost" isn't what  
16 you consider when you're actually doing the  
17 functionalization, classification, allocation?

14:50

18 A. MR. BOWMAN: No. It's not a key  
19 consideration. The focus is on trying to find the correct  
20 way to represent the system in doing a proper analysis. In  
21 something like Whitehorse 4, we could have pursued some form  
22 of saw-off, as proposed in the question, that says, if this  
23 was an asset, like the other three Whitehorse units, that was  
24 fully available for demand and energy, we would put 40  
25 percent of it to demand, but because only 20 percent of this

14:50

1 unit is available for demand, 4 megawatts or the 20  
2 megawatts, we might take 20 percent of that 40 and come up  
3 with 8 percent to demand or something, and done some kind of  
4 saw-off like that. That could have been an option.

5 It may be a -- in fact, a refinement that's a  
6 bit of a -- could be considered for the study. But the  
7 latter part of the question really just went to trying to  
8 understand at what point in the cost-of-service analysis one  
9 may be sort of getting beyond practical effects or just be  
10 chasing one's tail or doing an academic exercise that has 14:51  
11 very little practical effect. You'll find that cost of  
12 service becomes a fairly contentious topic in places where  
13 you have customers of -- major customers of very differing  
14 load characteristics.

15 So in 1996/'97 or in 1992 when Yukon was doing  
16 reviews of cost of service, you would have the Faro Mine  
17 representative sitting on one side of the room very  
18 interested in making sure that costs showed up as demand  
19 costs not energy costs, and other classes on the other side  
20 of the room fighting on the other side. And it's because it 14:52  
21 had a very material outcome to the amount that they were  
22 going to pay at the end of the day. I have some quick  
23 numbers here that every dollar allocated to demand on the  
24 system in '97, the Faro Mine paid 30 percent of. Every  
25 dollar allocated to energy they paid 43 percent of. So they

1 have a strong interest in seeing costs show up as demand, and  
2 the other classes, vice versa.

3 Today the classes are -- that are available on  
4 the system have a much, much more similar load  
5 characteristic, so it was just an attempt to sort of put into  
6 perspective that not nearly as much turns, at least at this  
7 point in time, on those classification factors.

8 A. MR. OSLER: Just to conclude on a simple  
9 note. The point is you start trying to reflect the system  
10 and the changes. You check later on to see how material some  
11 things are and how immaterial other ones are. But the point  
12 is to try and track the system within some reasonable level  
13 of effort.

14:53

14 Q. All right. Thank you very much. And I think this  
15 rounds out this line of questioning. And this refers to  
16 CW-3(a). And the question was about confirming that Mayo  
17 hydrogen generation typically contributes to the MD's  
18 system's ability to serve peak loads. And as part of the  
19 response, the Utility stated:

20 The appropriate test is not what the  
21 plant normally does but factors such as  
22 what the plant is designed and built to  
23 do or what system characteristics drive  
24 its costs. What consideration to the  
25 related costs, savings, benefits, and

14:53

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1                   underlying investment?"

2   And that strikes me as a -- at least a partial list of all  
3   the factors that you've been talking about in terms of  
4   properly functionalizing and classifying, in this case,  
5   plant.

6                   My question is: Is that an exhaustive list,  
7   or is there something you want to add to that list in terms  
8   of the factors? Because it talks about factors such as,  
9   which suggests there may be more.

10   A.   MR. BOWMAN:                   I'm not sure it's an exhaustive   14:54  
11   list. It is a list of the key -- of key criteria used in  
12   this study. I think there's another list in Tab 3. In each  
13   case, though, going back to first principles, there's a need  
14   to look at the unique factors of each -- of each asset, and I  
15   think when they're written like this, you want to be careful  
16   about saying this is it; this is the entire list. There's --  
17   nothing else will inform. So that is -- that's my caveat on  
18   it --

19   Q.   Okay.

20   A.   MR. BOWMAN:                   -- but that is a reasonable   14:55  
21   list.

22   Q.   Okay. Thank you. I'm moving to WC-4-A (CW). The  
23   question was, "Please provide a calculation of the benefit of  
24   avoided diesel generation that the transmission system  
25   provides." And hopefully this is a -- this should be a quick

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1 answer, hopefully. In the table, the Utilities used 2009  
2 diesel fuel prices of .992 per litre., \$.992 per litre on the  
3 WAF grid and \$.975 per litre on the Mayo-Dawson grid to  
4 calculate the diesel fuel costs. I think you can see that on  
5 the table. How does that correspond to the Board's directive  
6 from page 1, which requires Yukon Energy to use the fuel  
7 price of 96 cents-per-litre for Whitehorse and additional  
8 cost of 3.2 cents-per-litre for Faro; 1.5 cents-per-litre,  
9 Dawson; and .7 cents-per-litre for Mayo?

10 A. MR. BOWMAN: They're the same.

14:56

11 Q. They're the same?

12 A. MR. BOWMAN: The WAF fuel for the purposes  
13 of estimating is assumed to run at Faro.

14 Q. I see. So even though they're broken out differently,  
15 they're actually the same? The way I broke it out, because  
16 it's different.

17 A. MR. BOWMAN: You listed 96 cents as the  
18 Whitehorse price, and then you said for Dawson it would be  
19 1-and-a-half cents higher.

20 Q. Right.

14:56

21 A. MR. BOWMAN: So 96 plus 1-and-a-half would  
22 be 97.5.

23 Q. Okay.

24 A. MR. BOWMAN: You'll see 97.5 in the table as  
25 the Mayo-Dawson --

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1 Q. Okay.

2 A. MR. BOWMAN: -- price. You also listed plus  
3 3.2 cents for Faro. So 96 plus 3.2 cents is 99.2.

4 Q. Thank you very much. Can you tell me what the actual  
5 avoided diesel fuel cost was in 2009?

6 A. MR. BOWMAN: I can't, sitting here, at the  
7 moment. It would be very close to these numbers though. The  
8 fuel prices were very close to those numbers through at least  
9 a good part of the year. I don't know exactly what it would  
10 have been on average over the course of the year, but they  
11 were reasonably close.

14:57

12 Q. Okay.

13

14 \*\*end of Take

15

16

17 A. MR. OSLER: And just again for the record,  
18 the company's avoided cost will be based on those prices  
19 because those are the approved prices. Whether there is an  
20 effect on Rider F account, up or down, is for future  
21 consideration, but those are the prices to get locked down  
22 from the GRA, and therefore, they're the income and expense  
23 account items for these companies.

14:57

24 Q. And lastly on that, are you able to tell me what the net  
25 savings of operating these transmission assets were in 2009,

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1 i.e., offset fuel savings with the cost of the assets?

2 A. MR. BOWMAN: Yes. Again, on a forecast  
3 basis dealing with the same premise, in the cost-of-service  
4 study, the costs that are considered to be  
5 transmission-related costs is \$9.063 million. So, you would  
6 take the -- it's a bit of an odd analysis that just suits the  
7 question that was asked, but it effectively says if you  
8 didn't have transmission everywhere, other than Whitehorse  
9 would be served by diesel, that would cost you 23 million.  
10 Instead, you have transmission that gives a net cost of 9  
11 million. The difference is 14.

14:58

12 Q. Thank you. All right. So, I'm starting to get into the  
13 questions which I think are for the rate design panel. So  
14 I'll just give you the heading and you can confirm that it's  
15 for the next panel.

16 So I'm assuming that anything having to do  
17 with Rider D is for the YECL panel that is coming up later?

18 A. MR. PALLADINO: Right.

19 Q. Although I'm not trying to ask the YEC panel about that.  
20 We'll deal with that later.

14:59

21 I have some questions on the monthly customer  
22 charges which I don't think are a matter of dispute between  
23 the companies. Maybe I can try asking as a whole. And the  
24 reference is UCG No. 17, part (b). The question was: (as  
25 read)

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1 "Please provide the customer level cost  
2 per customer and explain whether any  
3 weighting factor was used to determine  
4 the average customer-related cost  
5 levels; i.e., did a residential  
6 customer carry the same weight as an  
7 industrial customer."

8 So...

9 A. MR. DUNCAN: So the only weighting factors  
10 that we used on the model are on the distribution meter and  
11 transformer assets to recognize that a meter for a commercial  
12 class customer would be more expensive, and it would also  
13 cost more to install it and the same with the transformer  
14 assets. They would be a larger transformer and it would cost  
15 more to install it as well. Those are the only two types of  
16 weighting factors we have in the model.

15:00

17 Q. Okay. Now, looking at the results here, are these the  
18 combined costs for both utilities?

19 A. MR. DUNCAN: Yes.

20 Q. And are these 2009 costs?

15:00

21 A. MR. DUNCAN: Yes.

22 Q. And can you explain why it would cost \$5,900 more to  
23 serve a general service government customer versus a general  
24 service non-government customer?

25 A. MR. DUNCAN: It would be derived from the

1 allocators, so the PP&E that's employed by the rate class,  
2 and the demand and the energy that is used by the rate class,  
3 so those allocators are used to divide the costs up for each  
4 of the rate classes. That's why different rate classes will  
5 have different costs assigned to them.

6 A. MR. OSLER: In simple language, it would  
7 probably be different characteristics of those two groups  
8 within the general service. It might be the government group  
9 has got a lot larger customer on average than the average  
10 you're talking about on the other one, but that would be  
11 where you would go and look for characteristics that were  
12 different.

15:01

13 Q. So they would actually relate to specific cost  
14 allocation-related differences between the customers within  
15 those classes? Because on the face of it, when I read it, it  
16 seems the only difference to be government versus  
17 non-government and it's perhaps a function of my not  
18 understanding the differences between the two classes.

19 A. MR. DUNCAN: Right, that would be correct.

20 A. MR. OSLER: Just so it reads properly, it  
21 would be correct that it would reflect the characteristics of  
22 the two different customer groups, not the fact that one's  
23 called government and the other one is called something else.  
24 And Brian, you can confirm that, or sorry, Scott.

15:02

25 A. MR. DUNCAN: Yes, that's correct.

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1 Q. The same would then go for the difference between the  
2 residential non-government and the residential government,  
3 the \$149 difference?

4 A. MR. DUNCAN: Correct.

5 Q. There are actual operating or customer-related  
6 differences? Okay, thank you.

7 A. MR. DUNCAN: Right.

8 Q. Thank you. This is sort of a general question. Over  
9 the last ten years, have the utilities done anything specific  
10 to try and reduce the level of cost recovered through the  
11 monthly customer charges and, if so, what has been the  
12 specific impact of those efforts?

15:02

13 A. MR. OSLER: Could I ask you, just as a  
14 clarification. So you're talking not about rates at all,  
15 you're talking about the companies dealing with costs that  
16 would, when dealt with in the study, end up being assigned to  
17 a customer account. What have we been doing as companies to  
18 reduce those types of costs.

19 Q. Yes.

20 A. MR. OSLER: Is that the question?

15:03

21 Q. Yes.

22 A. MR. OSLER: Thank you.

23 A. MR. MOLLARD: The costs that drive those  
24 assets - poles, wires, transformers, nothing specific. We  
25 try our best in our procurement practices to get competitive

1 bids, but to a large -- in large respect here, subject to the  
2 whims of the market in terms of commodity prices for metals,  
3 copper and wood poles. So we try and buy as efficiently as  
4 we can, but we're somewhat limited in terms of how we can cut  
5 into those costs.

6 A. MR. PALLADINO: And there are changes in  
7 standards, as well, to that that occurs over time. And one  
8 that I can use as an example is going from overhead to  
9 underground service that would drive -- it would be one of  
10 the cost drivers that you would see showing up in the  
11 customer charge as an example.

15:04

12 Q. Thank you. I'd like to briefly ask about  
13 performance-based regulation, and I think maybe generally the  
14 panel can accept over the course of the last few proceedings,  
15 certainly the ones that I've been involved in with you, YEC  
16 in particular, the topic of the possibility of  
17 performance-based regulation has been brought up. Is that  
18 fair? I know because we brought it up. The alternative is  
19 to read all the quotes and I don't want to.

20 A. MR. OSLER: It has been raised, and in one  
21 of these IRs somewhere, probably from you people, a question  
22 was asked about it quoting a Board direction that the  
23 companies should look at it. So it's been raised and the  
24 Board has taken note of it.

15:05

25 Q. Have the utilities actually studied performance-based

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1 regulation scenarios to any degree?

2 A. MR. MOLLARD: No.

3 A. MR. OSLER: The two utilities in Yukon have  
4 not sat down and discussed to date that I know of  
5 performance-based regulation matters beyond -- no, in the  
6 sense that that word would have a meaning. Probably -- you  
7 know, ATCO can talk in terms of other jurisdictions. It may  
8 we'll have talked about it in other places, but I don't think  
9 we've had any conversations that I'm aware of in the Yukon  
10 context.

15:05

11 A. MR. PALLADINO: That's right. In the Yukon  
12 context, we haven't addressed it or looked at it. We are  
13 going through a PBR process in Alberta as we speak, but in  
14 the context of the Yukon, we haven't.

15 Q. Okay. And in YECL's response to UCG No. 4: (as read)  
16 "YECL to us seemed to indicate that if  
17 existing base rates are sufficient to  
18 recover the revenue requirement, there  
19 is no need to address PBR."

20 Is that a fair interpretation of your position  
21 on the need or the lack of a need for performance-based  
22 regulation?

15:06

23 A. MR. PALLADINO: I guess you have to look at it  
24 in terms of what we're trying to achieve from a PBR process.  
25 I think to, you know, to the extent that Yukon Electrical has

1 not -- we've not gone into a Phase I application for some  
2 time, you know, would suggest that in terms of managing costs  
3 on a reasonable basis, that one could look at that as a way  
4 to suggest that we are being prudent in terms of the  
5 operation of our electric system, but in terms of actually  
6 addressing performance-based regulation for Yukon, I'm not  
7 sure exactly what would be the -- you know, the framework in  
8 terms of what the PBR mechanism would be for the Yukon and  
9 why it would be necessary. I struggle with that.

10 Q. Would the utilities agree with me generally that the  
11 desired behaviours or outcomes of PBR would include: One,  
12 lower costs; two, improved service; three, benefit sharing;  
13 and, four, a more rational allocation of risks and rewards?

15:08

14 A. MR. BOWMAN: Can you repeat them?

15 Q. Sure. One, lower costs; two, improved service; three,  
16 benefit sharing; and four, a more rational allocation of  
17 risks and rewards as some of the things that  
18 performance-based regulation seeks to achieve?

19 A. MR. OSLER: At a general level,  
20 performance-based regulation certainly is trying to cut down  
21 regulatory costs by putting in place procedures that will  
22 achieve basic regulatory objectives without the need for as  
23 many hearings.

15:09

24 Basic regulatory objectives include trying to  
25 improve service, benefit sharing between the company and the

1 customers and, you know, hopefully, the theory is  
2 performance-based regulation might lead to a more efficient  
3 and reasonable allocation of cost and this type of stuff.

4 So at a high level, without having done a lot  
5 of thinking about it coming in here, I think it sounds  
6 reasonable. I'll let Nick comment from the point of view of  
7 YECL and ATCO?

8 A. MR. PALLADINO: One of the things that, if I  
9 can use ATCO, the exercise that we're going through right  
10 now, in that there are several mechanisms that you can use 15:10  
11 for performance-based regulation and one being a mechanism  
12 where you escalate your rates by a certain factor, inflation,  
13 minus productivity factor, and you scale your rates in that  
14 fashion.

15 Now, one of the challenges that I see for  
16 Yukon that I have to think about a little bit as to how that  
17 would be handled would be the current OICs that are in place  
18 that limit the manner in which rates can change between the  
19 rate classes. I think before we, you know, even contemplate  
20 a PBR exercise, I think we need to fundamentally look at how 15:10  
21 rates are achieved in Yukon because that poses certain  
22 challenges that one would have to overcome.

23 A. MR. OSLER: On the same vein, if the answer  
24 to UCG 4(a) where Yukon Energy made some comments on this, it  
25 started off by saying it's fundamentally a performance-based

1 regulation, a matter for Phase I rather than Phase II, and in  
2 the sense that we were thinking about that, that is true. It  
3 really goes to not needing to have a revenue requirement  
4 hearing as often because you've sort of sorted out the basics  
5 of how the revenue requirement can increase. That is, as was  
6 just noted by my college, that also presumes that you don't  
7 need to have a hearing to sort out major ongoing rate  
8 adjustments because you've got everything sort of organized;  
9 otherwise you can't implement that decision, "without having  
10 to have a hearing."

15:11

11 So to the extent that we raised some other  
12 questions in the answer, but to the extent that you're  
13 looking at trying to get your mind around something that can  
14 stop hearings, or not have as many of them, you have to look  
15 at what type of fundamental issues you've got and whether  
16 they can be addressed in this mechanism or whether you have  
17 to go through some more discussions before you're ready to go  
18 to something more mechanized.

19 Given that we haven't had a lot of hearings  
20 for a while and the problem has been how to get back up and  
21 running, it's probably something that we will keep talking  
22 about for a while, rather than come up with a snappy answer  
23 at the next GRA.

15:12

24 Q. Thank you.

25 A. MR. BOWMAN: The only other thing I'd add

1 that was referenced out of part (a) is that some of the  
2 things that you note related to to performance-based  
3 regulation, it's not that the utilities are without  
4 performance incentives today. There are a lot of things that  
5 they have incentives to ensure that they can maintain their  
6 performance, keep their rates at the same level, not need  
7 rate increases, you know, provide good services to customers.  
8 All of those things exist with certain incentives there  
9 today.

10 Often when people get into the language of  
11 performance-based regulation, it goes to saying if there is  
12 something I can do, you call it benefit sharing. If there is  
13 something I can do in respect to the amount the utility can  
14 earn as return, that let's them profit when they do better at  
15 these things. And the means by which the utility can profit  
16 or earn returns is entwined in the policy framework and the  
17 regulatory framework set in place for our jurisdiction.

15:13

18 I know in other cases where we've been  
19 involved in discussions about this type of thing in other  
20 jurisdictions, it has to start right up at the level of the  
21 utilities legislation.

15:13

22 Not all of the utilities regulatory  
23 legislation permits a board to put in place a framework that  
24 lets utilities profit from performance. A lot of them have  
25 very prescriptive regimes about the way that a utility can

1   earn rates and can earn a return. And, I think, without  
2   having looked at it, you can very well be one of those. That  
3   if a performance-based regulatory regime is something that  
4   would be of interest to people, it may be that it has to  
5   start with looking at the *Act* and looking at the overall  
6   regulations that they are today able to put in place such a  
7   regime.

8   Q.   The only follow-up I have on that is this last point  
9   about -- within the Yukon whether there are statutory or  
10   other regulatory blocks, and you seem to suggest that there  
11   may be but you hadn't looked at it. Perhaps by way of  
12   undertaking, you could tell me if you think that such  
13   impediments actually exist, and if so, what they are.

15:14

14   A.   MR. BOWMAN:                   I think, more accurately, there  
15   may be, but it would be a legal question that I'm not sure  
16   the witnesses would be qualified to answer. The point is  
17   your regime for regulation stems from the *Utilities Act*,  
18   which says how a utility can earn profit. And from what I've  
19   seen in other jurisdictions, unless that utilities Act is  
20   correctly structured, you may not be able to adopt a  
21   performance-based regulatory regime, which provides another  
22   route for utility to earning profit by achieving some of the  
23   things you listed.

15:14

24   Q.   There may be a legal impediment, but if there is, it is  
25   what it is, I guess we can look to the legislation and the

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1 powers around the Board in terms of requiring a PBR. I think  
2 that's what you're telling me, on that particular reason not  
3 to do it.

4 A. MR. BOWMAN: Yeah. And that regimes that go  
5 to take something like this on, usually do it starting from a  
6 policy level, starting from a review of the overall regime,  
7 not just out of a hearing about a utility's rates.

8 Q. This is where I skip a lot of rate design material,  
9 which will come later, and I'm going to terms and conditions  
10 of service, and I have a brief question on maximum investment 15:15  
11 levels.

12 And if I can take you UCG No. 18, and I'm  
13 looking at -- first, the answer to part (b) refers to a study  
14 -- sorry, refers to the study undertaken in the application  
15 and a search that is consistent with a similar study for  
16 utilities in Alberta and support for the proposition that the  
17 issue shouldn't be removed from further discussion.

18 And, obviously, this interrogatory was within  
19 when the companies weren't ad idem I think on this particular  
20 issue. In terms of your supporting your study, there was a 15:16  
21 reference to the study in Alberta. I was wondering if we  
22 could have that study put on the record so we can compare the  
23 two.

24 A. MR. PALLADINO: Certainly, we can do that.

25 UNDERTAKING - TO PRODUCE A COPY OF THE

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1                   STUDY IN ALBERTA THAT IS REFERRED TO IN  
2                   UCG NO. 18(B).

3       Q.    Thank you. My understanding is that the new proposal,  
4       for example, moves the maximum level -- sorry, the maximum  
5       investment levels in 2012 for residential single-family  
6       dwellings and multi-dwelling units from -- as filed, 1,740  
7       -- sorry, \$1,740 and \$1,500 to \$870 and \$725 respectively.  
8       Is that -- I think I've summarized that properly. From 1,740  
9       to 1,500 and from 870 to 725. I think you went over this  
10      with --

15:17

11      A.   MR. PALLADINO:                   That's correct.

12      Q.    Thank you. Now, my understanding is that the study that  
13      is part of the evidence is in support of the \$1,740 and the  
14      \$1,500. Sorry. And the \$870. Those are the two original  
15      figures that are supported by the study for 2012?

16      A.   MR. PALLADINO:                   Subject to check, that's  
17      correct, yeah.

18      Q.    Okay. But the -- I'm going to presume that there's no  
19      separate or new study that supports the new levels that the  
20      companies' supporting; i.e. the move from 1,740 to 1,500? So  
21      the new 1,500 number isn't part of the study and the new \$725  
22      level isn't part of the study. Is that fair?

15:18

23      A.   MR. PALLADINO:                   That's correct. The manner in  
24      which the 2010 -- sorry, the 2010 levels were determined. In  
25      discussions with YEC, we felt that in order to come to, I

1 guess, a consensus as to how we will move forward, the  
2 maximum investment levels, based on the average cost  
3 approach, as set out in the principles and as part of the  
4 application, we used a percentage of the coverage or the  
5 average costs of the maximum -- sorry, the average cost of  
6 the extension for each rate class, and we used it based -- we  
7 based it on the current levels and the 2011 levels, which is  
8 approximately 33 percent. But to answer your question in  
9 terms of was it part of the study, the -- the average cost  
10 approach was used as the basis for the study. How we arrived 15:19  
11 at the \$1,500 level is still consistent with that method in  
12 which we used to determine the average cost approach in the  
13 study itself.

14 Q. Okay. Because I asked if -- you're telling me that the  
15 \$1,500 new figure and the \$725 new figure are consistent with  
16 the study even though they're not included in the study?

17 A. MR. PALLADINO: The study itself,  
18 Mr. Buonaguro, is a study in which we look at the average  
19 costs of connecting a new customer between 2011 to 2015. The  
20 original proposal was just a matter of escalating that cost 15:20  
21 to get to that end point in 2015.

22 So that formed the basis of the study. The  
23 original proposal, in order to get to those levels by 2015,  
24 we escalated them by I think it was a factor of 39 percent,  
25 and that's how we arrived at the levels on a per-year basis.

1                   For 2010, in this updated proposal, we clawed  
2 back that 39 percent and used, I believe, 33 percent as a  
3 basis to move forward on a joint -- on a joint effort for  
4 2010. But again, the study hasn't changed. The average cost  
5 approach hasn't changed. It's just a matter of how far do we  
6 go to getting to those average costs. Whether do we do it in  
7 2015, or do we do it in 2017 or beyond that.

8 Q. Thank you. At YUB No. 30, you were asked about late  
9 payment charges. And I'm looking at the answer. There's  
10 only one part, so it's Part (a). And the word -- my concern 15:22  
11 is with the first part of the proposed terms and conditions,  
12 which define satisfactory credit rating as -- I'm looking at  
13 the first part -- "determined, subject to the discretion of  
14 the company."

15                   Could you fill that concept out in terms of  
16 the discretion of the company and in terms of how far that  
17 discretion extends? Because it seems pretty expansive on its  
18 face, and we were wondering beyond the factors that are  
19 already listed explicitly in Article 2.1, what the discretion  
20 of the company entails. 15:22

21 A. MR. MOLLARD:                   It's primary -- in our case,  
22 it's primarily the payment history with the company, if they  
23 have one.

24 Q. In accordance with the rest of 2.1?

25 A. MR. MOLLARD:                   Yes.

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1 Q. Okay. So you're telling me that in your case, the  
2 discretion of the company is then defined by the rest of the  
3 paragraph?

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

5 Q. Okay. And does YECL have the same understanding?

6 A. MR. PALLADINO: That's correct, subject to  
7 check, but I'm pretty confident it's the same.

8 Q. Okay. All right. So if I don't hear from you... Okay.  
9 Thank you. And YUB No. 32. To paraphrase this, my  
10 understanding is that the companies do not pay interest to  
11 customers for amounts owing due to billing errors, although  
12 they do charge late payment fees. Would the companies have  
13 an opinion on whether that's common practice among utilities  
14 in Canada, specifically, to not pay interest for amounts  
15 owing due to billing errors?

15:23

16 A. MR. PALLADINO: From my experience, that is  
17 common, although in Alberta, it's a little different because  
18 of the way the electric market is set up, in that we bill  
19 predominantly retailers as opposed to customers individually.  
20 But we still have that same provision in place with  
21 retailers, so if there is a billing error that works in the  
22 customer's favour or the utility's favour, interest is not  
23 -- is not included in the bill. So my experience is that it  
24 is common practice not to include interest.

15:24

25 Q. Okay.

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1 A. MR. MOLLARD: For both. For both ways.

2 Q. Okay.

3 A. MR. MOLLARD: We don't pay, and we don't  
4 charge.

5 Q. I see. So I guess that leads to why would that be the  
6 case? Because I was talking about specifically on amounts  
7 due -- amounts owing to customers, and you're saying you  
8 don't do it because, on the reciprocal end --

9 A. MR. MOLLARD: Yeah. If there's a billing  
10 error --

15:25

11 Q. -- you don't charge them --

12 A. MR. MOLLARD: Yeah.

13 Q. -- if you bill --

14 A. MR. MOLLARD: If they owe us, we don't bill  
15 them interest. If they owe -- if we owe them, they don't  
16 get --

17 Q. Even though the billing error is presumably -- although  
18 I guess there's some circumstances where it may not be. But  
19 presumably the billing error is usually the companies' error,  
20 right?

15:25

21 A. MR. MOLLARD: We don't pay, and we don't  
22 charge.

23 Q. Okay. YUB No. 35. This has to do with late payment and  
24 dishonoured payment fees. And there the companies indicate  
25 "connection and reconnection fees and meter accuracy test

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1 handling fees are based on the actual cost to perform these  
2 functions while late payment and dishonoured payment fees  
3 were increased to be consistent with neighbouring utilities  
4 such as Northland Utilities and NTPC. And we took it from  
5 that answer that although connection, reconnection fees, and  
6 meter accuracy test handling fees are based on actual costs,  
7 which is what it says, that's not the case for late payment  
8 and dishonoured payment fees. And I was wondering if I could  
9 get a further explanation of why that would be the case if  
10 we've understood it correctly?

15:26

11 A. MR. PALLADINO: I can give a -- I can give this  
12 question a response, a shot. I think in terms of when we  
13 look at connection and reconnection, there is, you know, a  
14 certain amount of labour involved to physically go out and  
15 connect and reconnect a customer. And in the past, we've  
16 found that in circumstances that whether it's got customers  
17 connecting and reconnecting for various reasons -- and that  
18 could involve where customers are switching bills from  
19 different -- different people in the premise -- at times we  
20 have to physically go out and connect and reconnect to  
21 service. So it was a -- is a -- it was a means of, you know,  
22 incenting the customer not to play those type of games. So  
23 there's an amount of manual intervention that goes into this  
24 process of connecting and reconnecting a customer, so we felt  
25 that it was appropriate to send that signal and tell

15:27

1 customers that there is a certain amount of work involved to  
2 go through this process.

3 Late payment and dishonoured payment fees are  
4 a little bit different in that, you know, typically we -- we  
5 work with the customers to avoid these type of situations  
6 arising. So we felt that there wasn't a need to flow through  
7 that cost on an actual basis compared to what we see on a  
8 connection process.

9 A. MR. MOLLARD: I think -- if I could just add,  
10 if you were to look at those late payment charge and  
11 dishonoured payment fees, those are pretty standard numbers.  
12 Whether you're talking about electrical utilities or grocery  
13 stores or whatever, that's pretty normal kind of rates for  
14 interest and numbers for NSF cheques and such.

15:28

15 Q. All right. Thank you. In the Phase I decision for YEC,  
16 on page 9, the Board stated that it remained,

17 ...convinced that DSM is a vital  
18 component of the comprehensive load and  
19 facilities planning strategy that  
20 complements YEC's strategy to displace  
21 forecast base load diesel generation,  
22 and directed YEC and YECL to:

15:29

23 ...consult and negotiate with  
24 stakeholders; i.e. intervenor groups,  
25 and communities and develop a policy

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1 paper with respect DSM initiatives to

2 be submitted in their next GRA.

3 Now, you were asked about this I believe in CW-29(b). And  
4 the answer there was that the utilities indicate that they're  
5 developing "a suite of Yukon-specific DSM initiatives for  
6 discussion with customers and stakeholder groups this fall."  
7 First of all, I presume that means now-ish?

8 A. MR. MOLLARD: I believe that actually has  
9 been delayed somewhat, but I'm not -- I don't have the actual  
10 dates that it's proposed to happen.

15:30

11 Q. Okay. Is there a more specific plan for those  
12 consultations that you can share with us?

13 A. MR. MOLLARD: I don't have anything at the  
14 current time, sorry.

15 Q. When you say "at the current time," you don't have it on  
16 you, or --

17 A. MR. MOLLARD: I don't have --

18 Q. -- it hasn't been developed yet?

19 A. MR. MOLLARD: I would have to check. I'm not  
20 -- we do have a team working together --

15:30

21 Q. Okay.

22 A. MR. MOLLARD: -- with YECL, and I'm not sure  
23 where exactly they are in the process --

24 Q. Okay.

25 A. MR. MOLLARD; --if they have a process laid

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1 out yet.

2 Q. Okay. So perhaps by way of undertaking you can tell me  
3 as of right now, at this hearing, what the process is or what  
4 it's contemplated to be.

5 UNDERTAKING - WITH RESPECT TO CW-29(B) ,  
6 TO ADVISE WHAT THE PLANS ARE TO DEVELOP  
7 A SUITE OF YUKON-SPECIFIC DSM  
8 INITIATIVES FOR DISCUSSION WITH  
9 CUSTOMERS AND STAKEHOLDER GROUPS

10 A. MR. MOLLARD: I agree.

15:30

11 Q. MR. BUONAGURO: Yes. Sorry. Thank you. And  
12 this is related to DSM. It may be a rate design question,  
13 but I'm going to throw it out here, because I don't think  
14 it's fundamental to the differences that you may have on the  
15 block structure, the two different block structures. But do  
16 the utilities have any evidence that implementing blocked  
17 rates, in general, will change Yukon consumer consumption  
18 habits?

19 A. MR. OSLER: I think, sir, that it may lead  
20 us into a bunch of other questions about the different types  
21 of rates, so you may want to just save that for the rates  
22 panels --

15:31

23 Q. That's --

24 A. MR. OSLER: -- to make sure we don't --

25 Q. That's fair. Thank you. I'm just checking my last page

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1 of questions to make sure they're rate design questions. I  
2 think I actually have one last bit of questioning here, and  
3 this has to do with customer bill of rights. And at page 7-3  
4 of the application, the application states:

5 An undertaking was made for  
6 representatives of both companies to  
7 discuss issues related to the electric  
8 service regulations/terms and  
9 conditions of service and provision for  
10 a customer bill of rights separately  
11 with a representative of the Utility  
12 Consumers' Group. Due to scheduling  
13 issues, this undertaking is outstanding  
14 at the time of filing but is expected  
15 to be completed shortly. Any required  
16 further update will be provided as  
17 required.

15:32

18 Then at page 5-2 of the application, I'm quoting:  
19 Revised terms and conditions of service  
20 document. The main proposed changes  
21 are to clarify and improve the wording  
22 of clauses that were not sufficiently  
23 clear in previous versions to fully  
24 communicate the rights and obligations  
25 of each of the utility and the

15:32

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1 customer.

2 Now, can you tell me if any discussions have taken place in  
3 accordance with what the application's talking about?

4 A. MR. MOLLARD: There was a meeting with the  
5 Utilities Consumers' Group. I don't have the exact date.  
6 Oh, yes. Sorry. February 23rd of this year was a meeting  
7 with representatives from YEC and YECL with UCG at the YECL  
8 offices downtown.

9 Q. And are there -- is there a plan for further meetings?

10 A. MR. MOLLARD: I don't believe so. My  
11 recollection of the meeting, we were able to address the  
12 concerns that were raised, and in general terms, the position  
13 of the companies was that the existing terms and conditions  
14 addressed the issues that were raised in the draft consumer  
15 bill of rights that was put forward.

16 Q. Okay.

17 A. MR. OSLER: This is addressed in CW-28 just  
18 so that the record -- this meeting and this discussion.

19 Q. Actually, I was going to go there. So going to 28 and,  
20 in particular, Part (c), the utilities state that at the  
21 meeting held February 23rd, 2010:

22 ...the companies addressed the issues  
23 of concern raised by UCG in the meeting  
24 and identified where the answer to the  
25 matters raised could be found in the

15:33

15:33

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1                   current ESRs or how they were dealt  
2                   with in current policies and practices.

3    So I understand from that that the utilities feel that the  
4    customer-rights issues that were raised are easily found in  
5    the current ESRs and that the related policies and practices  
6    are broadly known by the public?

7    A.   MR. MOLLARD:                   Our position is that ESRs are  
8    an important component where a consumer can determine what  
9    their rights are. There are other things that we do as  
10   utilities to make sure customers are aware of their rights.  
11   Our standard practice in our company -- and I'm sure it's  
12   quite similar for YECL -- if a customer phones in, we're  
13   always very clear. They always have the right to contact the  
14   YUB at any point if they are feeling that they are not being  
15   heard. We have a web page set up on our home page that has  
16   frequently asked questions that allows -- directs the  
17   consumers to the Utilities Board or provides information on  
18   how to get connections or how to make complaints or...  
19   Anything that they need to know, there's information there as  
20   well.

15:34

15:35

21   Q.   Okay. And then at Part (e) you talk about your  
22   conclusion that UCG was satisfied with responses provided. I  
23   think I may have asked you, but I can't remember. Following  
24   the February 3rd -- 23rd meeting in -- February 23rd, 2010,  
25   meeting, has there been follow-up with UCG?

1     A.     MR. MOLLARD:                     We left -- my recollection from  
2     the meeting is we left it with Mr. Rondeau. If he had any  
3     further questions, that he could follow up with us, and we  
4     would be more than happy to engage again.

5     Q.     He's not here, so I can't lean over and confirm, but  
6     thank you for your answer. Thank you for your answer.

7                     Those are my questions for this Panel. Thank  
8     you very much.

9     THE CHAIR:                     Thank you very much,  
10    Mr. Buonaguro.

15:35

11                    So I believe the next intervenor is  
12    Mr. Maissan. Mr. Maissan, I'll turn it over to you to --  
13    whenever you'd like to start.

14    MR. MAISSAN:                   Thank you, Mr. Chair. I'm  
15    ready to start.

16    MR. MAISSAN CROSS-EXAMINES THE PANEL:

17    Q.     MR. MAISSAN:             I would like to start with  
18    dealing with an issue on which I represent a -- I won't call  
19    it a client, because it's a volunteer organization. That's  
20    Braeburn Lake Christian Camp and the cost-sharing period  
21    issue. Is the Panel aware of the issue, or should I describe  
22    it briefly before going into the questions?

15:37

23    A.     MR. MOLLARD:             It may be beneficial to give a  
24    little bit of context.

25    Q.     All right. The party I represent here, Braeburn Lake

1 Christian Camp, is a registered charity. In 2001, they  
2 requested a connection to the grid. They paid a customer  
3 contribution of I think it was about \$27,000. They got their  
4 funding support through the rural electrification program and  
5 are paying back that customer contribution over 15 years, and  
6 I think the annual payment is something like \$2800 a year.

7 After seven years, a neighbour at the end of  
8 the line requested connection through Yukon Energy. They  
9 were connected, and they were not asked or required to pay  
10 any share of that \$27,000, and the issue is that the company,  
11 the utilities, have a five-year cost-sharing period. The  
12 Yukon government rural electrification program uses a 15-year  
13 cost-sharing period.

15:38

14 So, I guess the questions I have relate to the  
15 IRs I asked dealing with this issue and to explore that a bit  
16 further. One of the questions that I asked, which is Leading  
17 Edge 31, related to the number of large customer contribution  
18 projects that the utilities might have. So, in answer to  
19 Leading Edge 31, both Yukon Energy and Yukon Electric  
20 supplied information.

15:39

21 The Yukon Energy information is fairly limited  
22 in numbers, so details are easy to deduce, but Yukon Electric  
23 information has more data. And the way it was presented I  
24 wasn't sure whether these were the number of projects and the  
25 projects seemed very large, and on further contact, I was

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1 informed by Yukon Electric that these were the numbers of  
2 customers as opposed to the numbers of distribution projects.  
3 So, rather than extend the IR process, I said  
4 that I would follow up with some questions in  
5 cross-examination. So, I was wondering whether Yukon  
6 Electric at this point could clarify in Table 2 of the answer  
7 whether they had the information on the numbers of projects  
8 involved as opposed to the numbers of customers that made  
9 contributions of this size?

10 A. MR. PALLADINO: Mr. Maissan, if I can get that  
11 information request number again. That was number 3.

15:40

12 Q. The question was LE-YEC/YECL 1-31. And it's parts (b)  
13 through (g). And specifically in that table I'm looking at  
14 customers who would have contributed \$5,000 or more towards  
15 their distribution extension.

16 A. MR. PALLADINO: Without going into the data,  
17 sir, I would suggest that there is a strong correlation  
18 between the number of customers and extension -- new  
19 extension projects. Generally when we're looking at the  
20 projects, per se, typically when we -- when we are hooking up  
21 a new customer, that it would be, on its own, a new extension  
22 project.

15:41

23 So without having to go into specifically each  
24 of these years, and the amounts outlined herein, I believe  
25 that they would be very close, if not the same, in terms of

1 the number of customers versus number of extensions that  
2 we're talking about.

3 Q. To be honest, I'm extremely surprised to hear that  
4 because it means that you don't -- you seldom have projects  
5 that involve two or more customers that make contributions of  
6 \$5,000 or more? I can think of many examples of projects in  
7 which there were a number of customers that were connected in  
8 one distribution extension, each of whom would have paid  
9 \$5,000 or more.

10 Well, if you don't have the information --

15:42

11 A. MR. PALLADINO: So the question you're asking  
12 is let's look as an example here in 2007, we had 72 customers  
13 that paid a contribution greater than \$5,000.

14 Q. Correct, yes.

15 A. MR. PALLADINO: Now, the question is is whether  
16 or not those were -- if those 72 customers were new projects  
17 or whether they were a number of customers that were part of  
18 one project?

19 Q. Correct, yes.

20 A. MR. PALLADINO: I'd have to go back to the  
21 engineering folks to see exactly how that's broken out to see  
22 if, in fact, that is the case.

15:43

23 You're right, there would be cases where we  
24 would have more than one customer per project, but it's just  
25 a matter of reconciling that data and bringing it together.

1 Q. Yes, all right. Can I ask for that as an undertaking  
2 for at least for the categories (d) and up, \$10,000 or more  
3 to limit the numbers?

4 A. MR. PALLADINO: I will do that.

5 Q. That will be helpful. Thank you.

6 UNDERTAKING - WITH RESPECT TO THE  
7 RESPONSE TO LE-YEC/YECL 1-31, TO ADVISE  
8 IN RELATION TO THE CATEGORIES (D) AND  
9 UP IF THEY WERE NEW PROJECTS OR IF THEY  
10 WERE A NUMBER OF CUSTOMERS THAT WERE  
11 PART OF ONE PROJECT (SEE TEXT).

15:43

12 Q. MR. MAISSAN: And I wondered whether you had  
13 any idea how many of these customers would be or would have  
14 been, say, a general service customer that just connects to  
15 the grid so that there is no real distribution extension  
16 involved, just a service connection? Would there be any of  
17 those types of customers included in this listing?

18 A. MR. PALLADINO: I'm not sure, sir. I'd have to  
19 look at the projects individually.

20 Q. Thank you. And so I suppose by difference, you wouldn't  
21 know how many of these projects would involve a distribution  
22 line to which other customers connect versus projects such as  
23 a simple connection of one general service customer to which  
24 no other customer would ever be expected to connect?

15:44

25 A. MR. PALLADINO: That's correct, sir. You'd

1 have to look at each individual project to see how the  
2 extension is tapped off of the existing facilities to  
3 determine how long the facilities are and make some  
4 assessment as to whether other customers could tap off of  
5 those same facilities.

6 So, it gets into a lot of work to draw out the  
7 number of projects and customers that tap off of those  
8 facilities. It would be quite the exercise.

9 MR. MAISSAN: Yes. With respect, Mr. Chair,  
10 I thought I was asking a simple question that was focused on 15:45  
11 projects involving only distribution extensions as opposed to  
12 distribution connections, but obviously the way I phrased the  
13 IR was not as clear as it could have been.

14 Q. With respect to the corresponding Yukon Energy  
15 information in Table 1, many of the numbers are small, so  
16 obviously if you've got one customer, it has to be at least  
17 one project.

18 Can you confirm, or I guess deny, whether your  
19 numbers, for instance, in 2007 where there are multiple  
20 customers involved, whether it's information on the same 15:46  
21 basis as Yukon Electric or whether it's numbers of projects  
22 as opposed to number of customers?

23 A. MR. MOLLARD: I would have to do the same.  
24 I'd have to go check with my engineering folks to make sure  
25 that I knew what that was.

1 Q. Okay, thank you.

2 A. MR. MOLLARD: Sorry, was that an undertaking?

3 Q. I hope so.

4 A. MR. MOLLARD: Okay, just to clarify.

5 Q. Thank you.

6 UNDERTAKING - TO ADVISE WHETHER THE  
7 NUMBERS IN 2007, WHERE THERE ARE  
8 MULTIPLE CUSTOMERS INVOLVED, IT IS  
9 INFORMATION ON THE SAME BASIS AS YUKON  
10 ELECTRIC OR WHETHER IT IS NUMBERS OF  
11 PROJECTS AS OPPOSED TO NUMBER OF  
12 CUSTOMERS (SEE LE-YEC/YECL 1-31)

15:46

13 Q. If we turn now to the following question Leading Edge  
14 32, which is on the same topic. The response to this  
15 question indicates that Yukon Energy has no customers in the  
16 last three years connect to projects on which the original  
17 contributors paid 5,000 or more in customer contributions and  
18 that Yukon Electrical had nine such connections in the last  
19 three years.

20 This suggests to me that the cost-sharing  
21 administration costs for projects with customer contributions  
22 of 5,000 or more is really fairly nominal and it's not a huge  
23 amount. And I was wondering where is the reasonable balance,  
24 then, for customers who pay significant amounts of money when  
25 a customer -- for a customer like Braeburn Camp who has paid

15:47

1 a contribution of \$27,000, are continuing to pay \$2800 a year  
2 and somebody can come in after five years and get a free  
3 ride. You know, in terms of balance between administration  
4 costs and customer interests, it would seem to me that it's  
5 not entirely fair. And I just wondered whether anybody would  
6 care to comment.

7 A. MR. MOLLARD: I guess if I could comment  
8 -- if I could comment. It is an additional administration  
9 cost. And I think when you look at the fairness concept, you  
10 have to look not only at the fairness to that individual  
11 customer but also to the rest of the customers who are on the  
12 system who would have to bear that additional administration  
13 cost that would be created by that lengthening of that time  
14 period.

15:48

15 Q. Wouldn't it be the customers who connect to that bear  
16 the administration costs?

17 A. MR. MOLLARD: The administration, subject to  
18 check of our cost of service model, I don't believe is  
19 directly assigned to that individual customer.

20 Q. When I look at the numbers involved back in the previous  
21 question, it seems to me that there are very large numbers of  
22 customers that make small contributions -- witness those  
23 numbers under 10,000 -- who make contributions under 10,000,  
24 and even under 5,000 there's a very significant percentage.  
25 Only well under 30 percent would pay 10,000 or more, and when

15:48

1 we're looking at customers that pay \$27,000 or more, it would  
2 seem to me that the policy is driven by the very large number  
3 of customers who pay relatively small amounts and those  
4 customers -- few customers who pay very large amounts sort of  
5 get the short end of the stick. So, I guess that's my  
6 concern in the matter.

7 A. MR. PALLADINO: If I can speak from experience,  
8 Mr. Maissan. I don't think it really matters when you look  
9 at a cost-sharing mechanism whether you're dealing with a  
10 customer that paid a contribution of \$5,000 or a customer  
11 that paid a contribution of greater than 25,000. You need to  
12 put in systems and processes in place in order to track those  
13 cost-sharing extensions in all cases.

15:49

14 So, it just becomes a significant  
15 administrative process to develop a tracking mechanism that  
16 goes beyond what we're proposing to do is five years.

17 You're going back -- you're cutting cheques,  
18 you're collecting amounts from other customers. You're doing  
19 the cost-sharing calculation. It does require a lot of time,  
20 not only to facilitate the process, but even to track the  
21 process on a going-forward basis.

15:50

22 Again, we don't look at the amount of  
23 contribution that the customer paid; we look at all customers  
24 equally. So, it becomes quite an excessive exercise.

25 Q. With respect, sir, we're dealing with a very small

1 number of customers, and when the question was asked, you  
2 don't even track the costs. You don't know what the costs  
3 are. So it doesn't seem -- it just doesn't seem appropriate  
4 that you claim oh, it's high cost, but you don't even track  
5 the costs, you don't know what they are. And when we're  
6 dealing with very small customers, it seems to me that the  
7 policy could be fairer towards those few customers who pay  
8 large amounts of money. Anyway, I have no further questions  
9 on that topic.

10                   Going to other matters, I have one follow-up  
11 question on an issue raised by UCG in cross-examination, and  
12 that's customer class demand and the measurement of the  
13 contribution of different customer classes to peak. And if I  
14 understood correctly, that putting in place systems and  
15 equipment to track this would cost millions of dollars. Did  
16 I understand correctly?

15:51

17 **A. MR. DUNCAN:**                   Yes. We use -- in Alberta we  
18 have automatic meter reading. We also have metering on the  
19 lines in the substations so they can calculate the line  
20 losses on each of the lines. As well as there's  
21 communication equipment involved in the substations to send  
22 the data back to the collection software. So, it's quite an  
23 extensive infrastructure to collect the data.

15:52

24 **Q.** I was wondering if as a practical matter or practical  
25 compromise for getting Yukon specific data, whether you

1 could, in fact, place metering on a couple of feeders that  
2 predominantly fed one type of customer class; for instance,  
3 the residential subdivisions or to downtown that fed  
4 generally general service customers to get aggregated  
5 information on which you could base some truthing or  
6 adjusting of the other customers and, therefore, reduce costs  
7 and substantially increase the quality of the information  
8 without incurring those extremely high costs?

9 A. MR. DUNCAN: In Alberta, we take sampling on  
10 the lines, so we don't use the same lines every time, and we 15:53  
11 use a five-year averaging on them to make sure that we have a  
12 good statistical basis for the sampling.

13 I think if we used the same line all the time,  
14 we might run into problems with maybe over allocating losses.  
15 It's possible, but like I said, I don't know that it would  
16 provide a good statistic sampling to fairly allocate the  
17 losses to all the customers.

18 Q. My thought was that if we could get some Yukon-specific  
19 data to truth, say, the information from Alberta that's being  
20 used now, it might be very useful and helpful at a fairly 15:54  
21 modest cost.

22 A. MR. OSLER: Mr. Maissan, I'm advised by  
23 Mr. Campbell, who has been around as long as I have, and he  
24 was working for YECL earlier in the time period we were doing  
25 some of those earlier cost-of-service studies, that in that

1 era, people were organized by YECL as a manager to come out  
2 during the coldest period and do some spot checks and things.  
3 So in his view, remembering back, there was a process that  
4 was sort of Yukon-specific that wasn't the gap that we seem  
5 to have at the moment between relying on totally outside data  
6 versus doing a massive study. It would be too much money.

7           Given that he was listening to this earlier  
8 today and recalled that, that would seem to me to be the type  
9 of thing that we should look into as a way, in practical  
10 terms, to do what people used to do when we got -- every time 15:55  
11 we had a major cost-of-service study, Canadian Utilities, on  
12 behalf of the two companies, did file a justified, as you  
13 will remember, a total set of sheets that showed the  
14 customers, classes and the overall coincident peaks and  
15 energy and losses, and it all had to make sense. And I  
16 didn't understand until he told me today that that was based  
17 upon this type of process for doing some cross-checks that  
18 the manager organized when it got really cold and they'd make  
19 sure some people were here to double-check a bunch of things.

20           And it wouldn't have the accuracy that an 15:55  
21 Alberta or a Manitoba or B.C. study would have, but it would  
22 be a little bit more helpful to my colleagues down there than  
23 just having to rely on the type of debate we've been through  
24 for the last couple of weeks. So that might be useful for us  
25 to think about.

1 Q. Thank you.

2 A. MR. PALLADINO: I guess we would have to spend  
3 some time to see, in fact, if something like that would be of  
4 material value. I still struggle with the fact that we're  
5 suggesting that the Alberta data is incorrect. When I look  
6 at a residential customer in High Level and I look at a  
7 residential customer in Whitehorse, I would suggest that they  
8 would be very similar in terms of the characteristics, and  
9 you can draw out that analogy as well to a general service  
10 customer.

15:56

11 Whether you have a Boston Pizza in Grande  
12 Prairie or you have a Boston Pizza in Yukon, I can't see why  
13 the load factor would be any different. So for us to go down  
14 that exercise just because we believe that there's  
15 potentially something that looks odd with the Alberta data,  
16 which we believe that's not the case, I'm not sure why we  
17 want to go through that exercise and incur, you know, costs  
18 or even spend the time to undertake.

19 Q. My concern has been that the customers here might be  
20 quite different, particularly, residential customers. We  
21 don't have access to gas, so, you know, we don't heat water  
22 with gas; we use electric water heaters. The same with  
23 cooking. Our demand on those who use electric heat might be  
24 different. I think the incidents of electric heat in Alberta  
25 is properly somewhat less than here in Yukon. So if there

15:57

1 are some practical ways, cost-effective ways that this can be  
2 tested, I think it's beneficial.

3 My next series of questions relate to the  
4 -- to the assignment of costs for plants between demand and  
5 energy, and my first question relates to diesel plants in  
6 isolated communities. I am correct, am I not, in thinking  
7 that they serve both demand and energy requirements?

8 A. MR. BOWMAN: Diesel plants serve both demand  
9 and energy requirements, but the components that make up the  
10 cost of those plants are classified in different ways.

15:58

11 Q. Yes. And -- yeah. So rates in diesel-served  
12 communities include demand charges as well, right? I mean,  
13 it's not entirely energy charges that you charge in isolated  
14 communities, that we have historically charged in isolated  
15 communities?

16 A. MR. BOWMAN: That mixes in another factor.  
17 In the cost-of-service side, we were talking about demand and  
18 energy as looking at a set of costs and looking at what  
19 -- whether they're related to demand or energy. On a diesel  
20 plant, whether it's in an isolated community or on the grid,  
21 you would say that the diesel engines themselves, the cost of  
22 the diesel engines and the investments made in the diesel  
23 units is 100 percent demand cost, and the cost of the fuel to  
24 operate them is 100 percent energy costs. That's true  
25 whether you're in an isolated system or the grid. When you

15:59

1 actually bring in rates, and is there any demand-related  
2 component to the rates, it's how you design rates given a set  
3 of cost is a whole other question. General service will have  
4 demand charges but residential won't, and that's more for  
5 practical reasons than it is for the underlying-cost reasons.

6 Q. And in general, the demand charges for general service  
7 customers in Yukon's diesel-served communities have been the  
8 same as the demand charges for general service customers in  
9 the hydro zones; correct?

10 A. MR. BOWMAN: Yes. They've always been the  
11 same, yeah.

12 Q. Yes.

13 A. MR. BOWMAN: As far as we've tracked it,  
14 they're always the same.

15 Q. So I was wondering, then, why this is the case when only  
16 energy costs are said by the utilities to be relevant when a  
17 hydro grid serves that same overall need when a community is  
18 taken off diesel and served by a hydro line?

19 A. MR. BOWMAN: Well, that -- I understand your  
20 question now. A good example of that in this context is  
21 Dawson. In 1997, Dawson was an isolated community operating  
22 with its supply of energy coming from diesel. It had an  
23 investment in a diesel plant, engines, that was classified  
24 100 percent to demand. It also had a forecast consumption of  
25 diesel fuel, which is classified 100 percent to energy.

15:59

16:00

1                   As a result of connecting the Mayo-Dawson  
2 transmission line in 2003, there's no longer any material  
3 forecast of diesel fuel in Dawson. There remains a diesel  
4 plant in Dawson, and that diesel plant in Dawson is still  
5 classified 100 percent to demand. So the demand side of the  
6 cost, demand side of the ledger in Dawson, nothing changed as  
7 a result of hooking up the Mayo-Dawson line. The plant that  
8 was there effectively stayed there. It's -- the big change  
9 was on the energy side where the fuel component was removed  
10 and, based on the proposals in this cost-of-service study,  
11 the line supplemented or replaced that fuel side of the cost  
12 ledger.

16:01

13 Q. Well, I agree that fuel is a major cost component, but  
14 nonetheless, that diesel plant would have required new diesel  
15 engines, would have required major overhauls. There were  
16 also demand-related costs that have been deferred for a very  
17 extended period of time or not required at all because of the  
18 installation of the power line. So I'm having difficulty  
19 understanding why those demand-related cost savings then  
20 aren't reflected in the allocation of the transmission costs.  
21 I understand the bulk is the energy. I have no difficulty  
22 with that.

16:02

23 A. MR. BOWMAN:                   Yeah. I can't recall. This  
24 would be going back to the 2005 hearing. I can't recall what  
25 percentage of the economics of Mayo-Dawson transmission line

1 was justified based on savings and investment of diesel  
2 engines. There was some. It was -- my recollection is it  
3 would be a very small percentage, like, you know, less than  
4 10 percent, perhaps even smaller than that, of the -- that  
5 was -- of the line that was considered to be paid for, if  
6 you'd like, by savings on diesel engines. But the vast, vast  
7 majority was by savings on diesel fuel.

8 Q. I recollect a number between 10 and 20 percent, so... I  
9 think it was a bit more than has been allowed for in the  
10 discussions.

16:02

11 A. MR. OSLER: Well, I don't remember the  
12 exact numbers today, but it would be a present value type of  
13 calculation of future capital savings, and there probably was  
14 some in there. But in this exercise of cost-of-service  
15 analysis, you're right in the sense that there will be  
16 something there, and if it was a material matter in terms of  
17 30 percent or something like that of the total, there could  
18 be a solid argument for looking at something that would  
19 reflect it, subject to all the issues that come up in terms  
20 of practicality. How do we estimate them; how do we -- you  
21 know, something that didn't -- that's not occurring. How  
22 long do we want to keep doing that? Somebody may forget how  
23 to do it by the time you do your next cost-of-service study  
24 ten years later, if you're going to have that type of a leg.  
25 So there are a whole bunch of practical

16:03

1 reasons as to why something that's perfectly logical gets put  
2 to one side if it's small enough. And I think the guts of  
3 the point is with the Mayo-Dawson line, for all the costs  
4 that were incurred, they were fundamentally being justified  
5 to replace the diesel fuel, and the engines are still being  
6 left there to protect them if the even the line isn't  
7 working.

8                   So they still need the engines, so they're  
9 still 100 percent to demand. There may be some cost savings  
10 in terms of how often they're repaired and maintained, and  
11 all those things. Fair point, because they're not running  
12 all the time like before.

16:04

13                   The question practically is, is there enough  
14 in there to make it worth the trouble of going through trying  
15 to develop that and making it part of the calculation? But  
16 we're on the same page as to the fact that what was -- might  
17 be, in another context, taking a transmission line and  
18 calling it 100 percent demand. We're nowhere, nowhere,  
19 nowhere near that with the Mayo-Dawson line. If anything  
20 we're arguing over what percentage of a small number. Taking  
21 into account cost savings of the diesels might be worth  
22 taking into account, because of the unique factors going into  
23 that line. And I think that's -- that's the underlying  
24 problem of trying to do a cost-of-service study and trying to  
25 reflect facts that are specific to the assets in question in

16:04

1 the jurisdiction.

2 Q. So it's not that there aren't demand costs, it's just  
3 relatively small?

4 A. MR. OSLER: That would be the point that  
5 would be very important to me if I were -- somebody came to  
6 me and said, should we look at this. I would be saying,  
7 okay, is it worth it, or is it just a detail? If it's a  
8 detail, acknowledge it but don't spend a lot of money on it,  
9 because you'll just cause trouble for the hearing process.

10 Q. Thank you. Can someone tell me how the Fish Lake Plant  
11 is classified?

16:05

12 A. MR. DUNCAN: The Fish Lake Plant would  
13 follow the same classifications as the YECL plants. We don't  
14 have a large investment in hydro plants, so we've left the  
15 classifications to the YC folks, because they're the experts  
16 in the production.

17 Q. So is it classified 100 percent to energy, or because  
18 it's in Whitehorse, is it partially to demand and partially  
19 to energy?

20 A. MR. DUNCAN: It would be partially to demand  
21 and partially to energy.

16:06

22 Q. Thank you. In various places, the utilities say in  
23 response to IRs that even if assets such as the Aishihik and  
24 Mayo plants are reclassified, the net effect on residential  
25 class-allocated cost is only about 1 percent or less. And if

1 this is the case, and I accept it is, then why the big effort  
2 to change the classification in the first place if the net  
3 effect really is so small? And I wondered.

4 A. MR. BOWMAN: I guess the driver is trying to  
5 do a cost-of-service study that accurately and fairly  
6 represents the system. It was the Board's directive that  
7 produce a cost-of-service study with accurate revenue cost  
8 ratios, and so the utilities set off on that exercise.

9 I think, as Mr. Osler letter notes, it would  
10 have -- it would probably be troubling to, for simplicity  
11 sake, say we're willing to accept the old transmission 100  
12 percent demand classification for something like Mayo-Dawson  
13 when we just went through the facts, and somebody might  
14 debate 0 percent demand or 10 or 20 percent demand, but not a  
15 hundred. But at the end of the day, you know, the  
16 cost-of-service study gives the results that it gives and  
17 it's for the purposes that are there, and I think it would be  
18 -- it would undermine the result to just -- fail to  
19 acknowledge these key system conditions. The question goes  
20 to now that you've done something that at a first-pass level  
21 deals with the changes, deals with the systems that now exist  
22 and we're into the refinements, at what point do we say,  
23 okay, stop with the refinements, because they're rounding  
24 errors. And I think -- and they're -- adds complexity, adds  
25 cost, adds, you know, time for -- for very little further

16:07

16:07

1 effect.

2 A. MR. OSLER: At a very simple level, if  
3 somebody's asking me from an oversight point of view, you  
4 know, if it doesn't make any difference, why should we do it,  
5 my comment back is: You don't know it doesn't make any  
6 difference until you do it. And if it makes sense, do it and  
7 report on it. Don't start trying to prejudge in advance what  
8 you're talking about.

9 Secondly, the customer characteristics on the  
10 system today may be quite different five years from now if  
11 there's more industrials like we used to have. So get it  
12 right, and it will help the people that come later to make  
13 sure that they've got an accurate approach.

16:08

14 If we get another customer on the system like  
15 a large industrial, and there's some indication that we're  
16 going to have more of them as time goes along, and they have  
17 high load factors, what we're talking about here could be  
18 very important as to how much costs are paid -- are assumed  
19 to be assigned to the different customer groups.

20 So, you know, it's just -- in the end, we end  
21 up reporting a lot of answers that say, it didn't make much  
22 difference. And my reaction to that is as you're hearing it  
23 right now: Yes, that's interesting, but it's not  
24 determinative. Okay?

16:09

25 Q. Thank you. Yes. That raises an interesting point. The

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Cross-Exam by Mr. Maissan

1 industrial class. You've given examples in a few places  
2 about the 1 percent impact on the residential, non-government  
3 class. Do you have an idea in your mind what the impact is  
4 on the industrial class? Is it in the order of 1 percent as  
5 well? Is it something more?

6 A. MR. OSLER: The answer that Mr. Bowman will  
7 look at will be a function of two things. One of them is the  
8 effect on classification, et cetera; the other one is subject  
9 to how big the industrial class is today compared to what it  
10 was at the time of the Faro Mine. It's very small today  
11 compared to then, so you've got to factor that into it. I'm  
12 saying, what happens if we end up with enough load on the  
13 system that's similar to that. Think about it that way. I  
14 don't know whether Mr. Bowman can help with you a number or  
15 an indication.

16:10

16 A. MR. BOWMAN: With the industrial class that  
17 there's today, you'd be talking more in the range of, you  
18 know, 2 to 3 percentage points. We -- the way that these  
19 studies are done, there are a lot of attachments that run  
20 alternative cost-of-service studies using this methodology or  
21 that, and they chew on a lot of numbers on the cost side, but  
22 they don't actually run revenue cost coverage ratios. And  
23 you can go on ahead and do that. That's where we do the map  
24 that comes up with the -- you know, the residential side  
25 swinging about 1 percent. The industrial would be more in

16:10

1 the range of, you know, 2 to maybe 3 percent.

2 If anything, the types of methods that have  
3 been adopted which tend to, for very good reason, at this  
4 point in time, tend to recognize more of an energy weighting  
5 in the -- remaining assets on the system would drive the  
6 industrial -- the costs allocated to the industrial customer  
7 up, meaning would drive the revenue cost coverage ratio down.  
8 So the tendency is people have asked us to vary these methods  
9 as they put more demand for here or put more demand there;  
10 put the transmission back to a hundred percent; put the 16:11  
11 Aishihik back to 60/40. The tendency is that those would --  
12 would reduce the costs allocated to industrial; cause a  
13 slightly higher revenue cost coverage ratio. So instead of,  
14 say, 109 in here or 110, they're up around 111, 112, 113,  
15 meaning that they're paying even more above the costs than  
16 they would have. You're lowering the denominator. That --  
17 that would -- that would be the directional change of all the  
18 different studies that are run here.

19 Q. Thank you. In regards to Aishihik and the third turbine  
20 which, as I understand, is being installed now, how will -- 16:12  
21 how will that be classified? Is that -- will that also be  
22 classified 100 percent to energy? Do you know at this time?  
23 Because I thought it was being installed to meet peak winter  
24 demands, but I'm really wondering now.

25 A. MR. BOWMAN: The Aishihik turbine is

1 actually a -- an item that we've only briefly discussed, and  
2 it will require some more discussion. It's not in here, of  
3 course, because it's not in the 2009 revenue requirement.  
4 For the same reasons that the rest of the Aishihik is not  
5 allocated to demand, the simple assumption is it would  
6 similarly not be allocated demand. That's fundamentally the  
7 economics of the Aishihik third turbine, are based on  
8 displacing fuel. And if you look at the economic sheets that  
9 were placed with the resource plan, it's based on displacing  
10 diesel fuel.

16:12

11 Now, we know in particular, it helps displace  
12 that diesel fuel in certain years as a result of being able  
13 to be dispatched at times of higher demand, but that's sort  
14 of an interim use, if you like. That's -- that's a -- makes  
15 up the minority of the years of the scenarios that people  
16 read. The bulk of the time, the Aishihik third turbine's  
17 real benefit is -- is the ability to provide a more -- more  
18 efficient opportunity to mix and match the Aishihik units and  
19 bring them into their more efficient ranges, and as a result,  
20 improve the overall output of the plant energy across all the  
21 hours.

16:13

22 So for those who didn't do it tend to lean  
23 towards energy, while still recognizing there are some years  
24 where -- where the benefit it's going to bring is able to  
25 help, you know, keep the diesels off a little longer when --

1 when the load really goes up on a cold day.

2 A. MR. OSLER: The actual present values that  
3 justified the project were, as Mr. Bowman says, based on fuel  
4 for the reasons he gave, short and long run. They recognized  
5 the capacity planning criteria that was being recommended.  
6 If that -- if somebody had twinned the Aishihik line or done  
7 whatever it would take to make that N minus 1 no longer  
8 relevant, the question of whether the Aishihik third turbine  
9 would also have the capacity with benefit at the time of  
10 system peak would be a relevant question. You know, and we'd 16:14  
11 have to think about it. But in the context of justifying the  
12 project, it was assumed that it didn't for the same reasons  
13 as the rest of the Aishihik Plant, and it was justified based  
14 on improved energy efficiency, long run, and some extra fuel  
15 benefits in the short term due to the system's size and  
16 scale.

17 Q. Thank you. My last questions for the joint panel are to  
18 do with rate design. In various places in this Phase II GRA  
19 and IR responses, I've seen numbers for the interim  
20 electrical rebate as 2.660, 2.661, 2.662, and 2.66 -- sorry, 16:14  
21 2 .6621 cents per kilowatt hour, and I was hoping somebody  
22 could tell me what the real number is. I've seen all those  
23 numbers in the IRs in the application.

24 A. MR. MOLLARD: We'd have to check that one for  
25 you. I don't -- I don't know --

1 Q. Yes.

2 A. MR. MOLLARD: -- in this light.

3 Q. Yukon Electric's bill calculator on the website uses  
4 2.661.

5 A. MR. MOLLARD: 2.661.

6 Q. Then that's the number. All right. Because I was  
7 getting quite confused.

8 In Tab 4 YEC and Tab 4 YECL, the cost of  
9 diesel generation O&M is listed as 3 cents per kilowatt hour.  
10 In the YEC GRA, the Phase I GRA, an O&M cost of 1.6 cents per 16:15  
11 kilowatt hour was used. And I was wondering whether somebody  
12 could explain to me why the difference or change from  
13 Yukon Energy's 1.6 to 3.0 now?

14 A. MR. BOWMAN: Well, in Yukon Energy's Phase I  
15 GRA in -- that was filed in 2008, that number hadn't been  
16 updated as it was the same number that had been used in '96  
17 and '97. No further work had been done on the variable cost  
18 of diesel generation. So the reason it was 0.6 was simply  
19 that. It -- no one had gone about changing it.

20 For the 3 cents that's used in this 16:16  
21 application, there was a review done of the costs of  
22 operating the diesel plants, and it focused on Watson Lake,  
23 where most of the diesel is generated in the Yukon. And it  
24 added up an overhaul -- a price of overhauls, which ends up  
25 being about 2.4 cents per kilowatt hour when you average out

1 a couple of years. I looked at Lube Oil, which added up to  
2 about .2 cents per kilowatt hour, so you're up to about 2.6.  
3 And then it was effectively rounded to 3 to pick up other  
4 variable O&M items like oil filters, labour for oil changes  
5 and things, which are not easily quantified, so that you  
6 ended up, you know, in the range of 3 cents. It's a bit of a  
7 tricky number to actually, you know, develop precisely, but  
8 that's a similar methodology to the way the 1.6 was developed  
9 in the past.

10 Q. Okay. So this was not a number, then, that was  
11 important to be transferred from approved GRAs into this  
12 Phase II?

16:17

13 A. MR. BOWMAN: No, it's just a number for the  
14 purposes of trying to figure out incremental costs for diesel  
15 generation. In other words, if your diesel generation  
16 varies, we know there's more than fuel that varies. There's  
17 other types of costs that are incurred. But when you're  
18 dealing with your GRA, you're dealing with the overall  
19 forecasts in a year and the average costs and the sum totals.  
20 It's not necessarily on a unit basis. Nothing in the GRA's  
21 revenue requirement is forecast using this type of number.

16:17

22 MR. MAISSAN: Mr. Chairman, that concludes my  
23 questions for the joint panel.

24 THE CHAIR: Thank you, Mr. Maissan, for the  
25 presentation and the questions. This might be a good

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1 opportunity to take a break. I know we were scheduled for  
2 3:30, but do you want to take a break now before YUB counsel  
3 begins to ask questions? Sobeit.

4 (ADJOURNMENT)

5 THE CHAIR: So just before we begin with  
6 the Yukon Utility Board questions to the joint panel, are  
7 there any undertakings or -- sorry, any preliminary matters  
8 to be dealt with or any undertakings to be returned? No, not  
9 at this stage. Thanks. I guess the one thing we might --  
10 because we were just having a little discussion in the hall. 16:41  
11 Maybe on the undertakings, we may need to be a little more  
12 definitive in terms of when undertakings are being made or  
13 not being made, because I know we're struggling here with  
14 what we think are the undertakings, and we'll have to go back  
15 and review the transcripts. And I know you guys are  
16 following it as well, but it might be -- I might -- if I'm  
17 not clear, I might ask that question, if you don't mind.

18 So I'll turn it over to the Yukon Utilities  
19 Board, counsel.

20 MS. BENTIVEGNA QUESTIONS THE PANEL: 16:42

21 Q. MS. BENTIVEGNA: The first question for you,  
22 Panel. Application Tab 3, page 9:

23 The companies submit that under the  
24 current capacity criteria, the Aishihik  
25 Plant cannot be relied upon to serve

1 peak loads at critical times and,  
2 consequently, can only be considered to  
3 provide an energy benefit to the  
4 system.

5 Do you see? Have you found it? I just don't want to go too  
6 quickly.

7 A. MR. MOLLARD: Sorry, was that page 3-9?

8 Q. Yes, I believe that's where it is. Now, can you -- or  
9 would you have any knowledge if there have been any recorded  
10 transmission line related outages during peak periods in the 16:43  
11 last ten years? Would you have that information?

12 A. MR. BOWMAN: If you'd give us a moment --

13 Q. Oh, certainly.

14 A. MR. BOWMAN: -- we think there's actually an  
15 IR that answers this question, so...

16 Q. All right.

17 A. MR. BOWMAN: The data that you're requesting  
18 is included in LE-5, although that response deals with more  
19 than transmission. It also deals with unit outages going  
20 back ten years, I believe. We reviewed this in some detail 16:45  
21 at the resource plan. That the data on that Aishihik outages  
22 is actually quite sparse, and at one point there was a  
23 complete lack of any data showing any outage of the Aishihik  
24 transmission line whatsoever. The key one that people will  
25 recall here was in 2006, early 2006, which was an outage that

1 lasted, you know, the better -- between two and seven hours  
2 and left -- led to a derated plant for the better part of a  
3 month. And that outage occurred on January 29th, '06. And  
4 that's certainly the poster child, if you like, of a  
5 midwinter outage. Outside of that, though, there is not a --  
6 there is not a long list of outages of the line at peak  
7 times.

8 Q. Okay. Now, considering that there haven't been in the  
9 first statement that you made about the Aishihik plant, can  
10 you explain why it is that operating criteria is not a part  
11 of the criteria underlining the classification methodology?

16:46

12 A. MR. BOWMAN: Well, I think it's for the same  
13 reasons that were -- we talked about earlier. Your  
14 investment -- the cost-of-service study is looking to  
15 allocate your rate base in -- primarily, as well as your  
16 operating costs, but which tends to fundamentally tie to the  
17 investment in plant and the load characteristics that drive  
18 that plant. It's not how the plant is typically used; it's  
19 what leads to a need to drive that plant.

20 In the case of Aishihik, this is not an  
21 unfamiliar discussion when we talked about designing a  
22 capacity planning criteria that said on an N-minus-one basis,  
23 we should assume that Aishihik's unavailable at the time of  
24 system peak, and a whole bunch of questions got asked. But  
25 has it ever been unavailable at the time of system peak? And

16:46

1 we provided similar data that said not really. That was a  
2 couple of months before the January 29th, 2006, outage,  
3 strangely enough. But nonetheless, it was -- that just  
4 helped to underline the fact that it's not what happens on --  
5 you know, at typical times or on average; it's how do you  
6 plan and design the system.

7 We spent a bit of time in one of the IR  
8 responses, which I was hoping I could find quickly, talking  
9 about the difference between demand-related costs and  
10 energy-related costs, and at -- CW-2(b) is the one that comes 16:47  
11 to mind. Your -- every time someone uses power, they're  
12 effectively using both demand and energy, so it's a bit of a  
13 fiction to say this is exactly demand, and this is exactly  
14 energy. It's just a means of trying to do allocation. But  
15 at the end of the day if -- knowing that we're in that world  
16 of sort of precision of perfect loads and things, if you  
17 like, a pure energy load or a perfect energy load is 1  
18 kilowatt hour delivered whenever the utility sees fit to  
19 deliver it. It has no time constraints on it. Time is not a  
20 factor. One coincident peak unit is a megawatt delivered at 16:48  
21 the peak time. Without any sustained delivery, it doesn't  
22 have to have any energy associated with it, it's just a pure  
23 megawatt. And if you go to that pure megawatt, which is the  
24 pure capacity load, if somebody came along and added  
25 10 megawatts to this system, would it drive people to build

1 more out at Aishihik? It wouldn't. It wouldn't link the  
2 investment out at Aishihik to that load. It would drive  
3 people to add diesel units, which is why diesel units become  
4 a demand-related driver or potentially to look at, in  
5 combination with energy, to add hydro on this side of the  
6 Aishihik line. You wouldn't try to serve that 10 megawatt  
7 pure peak load by adding units out at Aishihik.

8 If somebody brings kilowatt hours to the  
9 system, you can deliver it whenever you want. It wouldn't  
10 drive you to add diesel units. It wouldn't drive you to add  
11 capacity. It would -- it might drive you to add hydro on an  
12 economic basis or to run diesel fuel, and that's why those  
13 become things that you put much more to energy.

16:49

14 And so for those reasons, when you have a  
15 plant similar to Aishihik, you can't rely on at peak times,  
16 even though it tends to generate at peak times -- similar to  
17 wind; similar to IPPs -- you would still try to think about  
18 them as primarily, if not entirely, an energy-related  
19 resource because they are not an investment; they're not a  
20 plant that is driven by those pure peak loads.

16:49

21 Q. Okay. Just to follow up. And on that point, I'm refer  
22 you to YUB-5. And in response to that question, the  
23 companies stated that:

24 There is no instance in the past ten  
25 winters, October to April, where the

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1           Aishihik transmission line has been out  
2           of service on a significant and  
3           unplanned basis resulting in a  
4           constraint in its carrying capacity.

5   Now, just looking at the words, "carrying capacity" suggests  
6   that there's a demand constraint associated with the  
7   transmission line. Can you comment on that?

8   **A.   MR. MOLLARD:**               **Sorry, we're having trouble**  
9   **finding the reference.**

10   **Q.**   Sure. The reference I have in the question is the  
11   response to YUB 1-5, so Question 5.

16:50

12   **A.   MR. MOLLARD:**               **Sorry, we're having trouble**  
13   **finding it. We've got an (a) through (g), and it's some**  
14   **eight pages long, so we can't --**

15   **Q.**   Oh, okay.

16   **A.   MR. MOLLARD:**               **Yeah. We're having trouble**  
17   **locating it. If you can just give us a sec.**

18   **MR. MAISSAN:**                    Do you have the date reference?

19   **MS. BENTIVEGNA:**                No, I don't.

20   **MR. MAISSAN:**                    Mr. Chair, it's Leading Edge-5.

16:51

21   **MS. BENTIVEGNA:**                Thank you, Mr. Maissan. Wrong  
22   reference. My apologies.

23   **A.   MR. BOWMAN:**               **We have it now, yes.**

24   **Q.**   **MS. BENTIVEGNA:**           Okay. I'll go back to the  
25   question then, now that you have the statement. The question

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1 was if you could comment on whether the words "carrying  
2 capacity" suggest that there's a demand constraint associated  
3 with the transmission line.

4 A. MR. BOWMAN: No. There is not a demand  
5 constraint associated with the transmission line, and that's  
6 not -- the words weren't intended to have that meaning.

7 Q. Now --

8 A. MR. OSLER: The words were in the question,  
9 so I think all that happened is somebody answered the  
10 question reusing the words that were in the question. But 16:53  
11 the interpretation was did the line get interrupted on an  
12 unplanned basis. And the essence of the answer, as I read it  
13 -- because I had some confusion with it at one point -- is  
14 that the line itself, as we define the line itself, has not  
15 been interrupted because the interruption that occurred that  
16 Mr. Bowman was talking about was in technically called in the  
17 plant. It wasn't the generating, but it was getting the  
18 energy from the generators out to the transmission line from  
19 the plant. So the experts call that not part of the  
20 transmission line. When we did the N-minus-1 assessment 16:53  
21 though, we were well aware that that area where the fault  
22 occurred was part of the connection between the generator and  
23 the rest of the system. And I had to learn that they called  
24 it, for practical purposes, part of the generating plant  
25 rather than part of the transmission line. So it's --

1   there's two different answers technically there, and that's  
2   all it's saying.

3   Q.   All right. Thank you. Just to get a better  
4   understanding, load factor is a consideration when designing  
5   a transmission line, is it not?

6   A.   MR. BOWMAN:                   I think you'll find that we can  
7   give a limited answer on this panel, and if you want a more  
8   fulsome explanation, we'll have to go off and collect it. In  
9   general, when you're dealing with the transmission lines that  
10   the people have been dealing with in Yukon, the driving  
11   characteristics for a line for the type -- for needing a line  
12   for the type of line, for the sizing of the line, for the  
13   voltage of the line, has been the peak loads that it -- that  
14   occur on the other end of; the type of -- and even more so  
15   than that, the length, the voltage stability; those types of  
16   considerations.

16:54

17                   When you said "load factor," in general, when  
18   we talk about something like the Faro line, once it's up and  
19   operating, improving its load factor by putting more kilowatt  
20   hours down it during low load periods doesn't tend to change  
21   anything in respect of the transmission line or the overall  
22   investment in plant and all. It tends to be just -- you  
23   know, it will affect the overall losses, the amount of energy  
24   it's carrying and how often, so that may go into decisions  
25   about voltage and conductor sizing, but the tendency is that

16:55

1 once you're dealing with the particular links and the  
2 particular types of loads, most of your dollars invested in  
3 transmission line link to those factors, the links and the  
4 type of load, much more than the detailed analysis of losses  
5 in terms of determining the type of line or the investment.

6 Q. And then following up on that, can you explain why  
7 transmission lines should not be duly classified? That is,  
8 portion energy and a portion to demand.

9 A. MR. BOWMAN: I think in each case we looked  
10 at the system, we tried to ensure that we could do a  
11 classification method for transmission lines that was  
12 reasonably consistent throughout Yukon. Similar to  
13 generators, each of them in some ways has their own unique  
14 story, and so you can get into looking at some of them having  
15 different roles and functions. In that regard, as we talked  
16 about with Mr. Maissan, the dominant, if not entire basis of  
17 the Mayo-Dawson line and the investment would be energy. The  
18 -- given that the Aishihik Plant was being classified as  
19 100 percent energy, you'd find that the Aishihik line --  
20 typically under cost-of-service methods, the line that  
21 connects the plant to the system would be classified the same  
22 as the plant that it connects, so that would be 100 percent  
23 energy. And something like the Carmack-Stewart line, which  
24 was, you know, the investment that was dealt with in 2009's  
25 revenue requirement, was fundamentally based on an

16:56

16:57

1 opportunity to sell surplus hydro and help the Mayo offset  
2 the diesel it was running and to put in place a core  
3 infrastructure for the Yukon.

4 Take Pelly off of diesel the same way that  
5 Mayo was taken off -- or Dawson was taken off of diesel by  
6 the Mayo-Dawson line. Would tend towards 100 percent energy.  
7 So as we went through the major assets, each had their own  
8 rationale for talking 100 percent energy. That's not every  
9 transmission line in Yukon, so there was a thought that  
10 perhaps, you know, we could carve those out, and the residual 16:58  
11 -- look at some different allocations, but I think the  
12 dominant factor that we found is that by that point you've  
13 got almost all of the investment in transmission already at  
14 100 percent energy based on each of those factors. So trying  
15 to then get into sort of refining the individual assets much  
16 further seemed to add a fair bit of complexity without  
17 necessarily a whole lot of refined value.

18 A. MR. OSLER: Just to add something. The  
19 question was: Could you use a load factor in principle? And  
20 the answer would be, in that sense, yes, it has been done. 16:58  
21 Been done in Manitoba with a generation-related transmission  
22 earlier in history when they just treated the generating  
23 asset and the HVDC transmission system from the north with a  
24 load factor allocation.

25 So you can go from 100 percent demand to

1 100 percent energy, and you could justify some load factors.

2 The question is: What's the evidence and why?

3                   When we did this back in the '90s, between the  
4 ATCO people -- or CU people, as they were called then -- and  
5 myself, our focus was on the Whitehorse No. 4 unit and a few  
6 other things that you'll see in decisions at that time,  
7 because they were the things that were getting a lot of  
8 attention. And the old transmission assets were not driving  
9 costs. And 85 percent of them between Whitehorse and Faro  
10 were already assigned to the mine anyway. So, frankly,  
11 although I was well aware of the load-factor approach for  
12 generation and transmission lines in Manitoba, we didn't  
13 bother with that for practical reasons, and nobody asked us  
14 any questions about it.

16:59

15                   Today the situation with the Mayo-Dawson line  
16 is that a lot of money has been spent on it, and it's going  
17 to have an important effect on the overall costs, so it does  
18 require people to pay a lot of attention to it. And the same  
19 with anything else that we spent a lot of money on since back  
20 then. And so people have spent a lot of time and attention,  
21 given the two biggest investments in the system from YEC's  
22 point of view has been transmission. It has dictated a lot  
23 of time and discussion for this particular cost-of-service  
24 study compared to before.

17:00

25 Q. Can you tell me if there have been instances where

1 transmission and/or generation plant have been classified to  
2 both demand and energy in consideration of the utilities or  
3 the system's overall load factor? I believe you just may  
4 have touched on that, Mr. Osler, but...

5 A. MR. BOWMAN: Touched on it, yes. Matter of  
6 fact, it's noted as one of the methods. My recollection is  
7 that this Board's report in '92 considered in a -- deciding  
8 60/40 as the split for, for example, Whitehorse Hydro; that  
9 it was pretty close to the system load factor. And I'm aware  
10 that the system load-factor approach is used for major hydro 17:01  
11 generation in Newfoundland. And I -- we make that reference  
12 in an IR. I was trying to find it quickly, but I can't. But  
13 that is in evidence, and it is a -- you know, a viable  
14 approach. And just to put it into context, at the bulk  
15 level, the system load factor at this time is not far off of  
16 60 percent, so the 60 percent energy/40 percent demand is --  
17 would tend to correlate with that.

18 A. MR. OSLER: The example I gave, to repeat  
19 it, is before this current methodology that's quoted here for  
20 100 percent energy in Manitoba, for the transmission and 17:01  
21 generation related -- the generation and the  
22 transmission-related assets from the north, it used to be  
23 that they would be bundled. An HVD transmission in Manitoba  
24 is a major transmission investment. It's the only way we get  
25 the power out of the far north down south. They were bundled

1 as a generation-related asset, and they were treated with a  
2 system load factor for the allocation between demand and  
3 energy. So it's not at all uncommon, and it was known at the  
4 time that we dealt with it in the earlier hearings at the  
5 cost-of-service study. I will presume it was referenced in  
6 that evidence, because it was certainly the way in which  
7 Manitoba was doing it then.

8 So we didn't go to transmission-related for  
9 the reasons I gave at that time. It just wasn't on our radar  
10 scope as a major item of driving costs.

17:02

11 Q. But just to clarify, can you explain what your current  
12 view is of such a classification methodology as it would  
13 apply here in the Yukon?

14 A. MR. OSLER: Well, just from the perspective  
15 of someone who was there before, and there are some changes  
16 that have gone on in the system, I've been -- I agree with  
17 the changes from a professional point of view, for the  
18 reasons that have been given for the Yukon-related assets. I  
19 acknowledge that there are issues where you could do things a  
20 bit differently, and they've been discussed. 4 megawatts out  
21 of the 20 of Whitehorse 4 could arguably be subject to the  
22 same demand/energy classification as the balance of  
23 Whitehorse 1, 2, and 3. It's just a question of  
24 practicality. There probably are some transmission assets in  
25 the Yukon that you could debate whether they should be

17:03

1 demand/energy split, but I don't think they'd make a big deal  
2 of difference vis-à-vis Aishihik.

3                   And the Mayo-Dawson line, professionally I  
4 think the rationale makes a lot of sense. You could argue  
5 some small variation, as we were with Mr. Maissan and for the  
6 reasons that we discussed, but practically, I've been so far  
7 persuaded that what we're doing is not just simple but it  
8 makes an awful lot of sense. But it's -- it's not -- it is  
9 important, and it reflects the rationales we're giving right  
10 now. And the danger of people coming along and looking at it 17:04  
11 is they say, well, we had 100 percent demand before, Mr. O,  
12 so why do we got 100 percent energy now? And the reasons are  
13 the reasons we've laid out. And five years from now or ten  
14 years from now there may be some reasons that would lead you  
15 to say maybe there's some rationale for some load-factor  
16 assignment.

17                   We are still using load factor for the  
18 Whitehorse 1, 2, and 3 units, and I guess Fish Lake, so it's  
19 not that we've abandoned the concept at all. We've just got  
20 a mixture for different plants, because it answers for the 17:04  
21 reasons given. Now, that -- I'm talking in principle,  
22 because I was there before. I think the people that have  
23 been doing the work have given you their reasons as to why  
24 they think a load factor is still relevant for some of the  
25 assets.

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1 Q. Thank you. Now, continuing on with the question of  
2 cost-of-service study. And I'm leery to refer you to my  
3 references, but I'll try again. LE-6 there's a statement in  
4 that response that:

5 Customer classes who use relatively  
6 larger amounts of energy compared to  
7 demand, that is, higher load factor  
8 customers, are adversely affected by  
9 allocations to energy, and benefit from  
10 allocations to demand.

17:06

11 A. MR. BOWMAN: That's correct. We have it.

12 Q. Could you please clarify, by way of example, what you  
13 mean by that statement or in that statement?

14 A. MR. BOWMAN: Yes. I gave example earlier,  
15 so maybe I'll try to use the same one and give you an example  
16 we can follow through. In 1997, the classic example of a  
17 customer who would be very sensitive to this classification  
18 factors was the Faro Mine when the study was done in 1997.  
19 And when you go through and add up all of the gigawatt hours  
20 of the energy on the system and look at the share of that  
21 energy represented by the industrial class, which is  
22 fundamentally the Faro Mine, it was about 43 percent of the  
23 energy, 43.11.

17:07

24 If you go through and do the demand  
25 calculations at that time and look at the overall demand on

1 the system at peak times, and for generation and  
2 transmissions we're talking coincident demand, it was -- the  
3 Faro Mine was 29.99 percent. So if you have a dollar of  
4 revenue requirement that is being debated between 100 percent  
5 demand and 100 percent energy, in the event that dollar  
6 became a demand allocated dollar -- demand-classified dollar,  
7 the Faro Mine would be paying -- would be -- would have  
8 30 cents of that dollar allocated to it.

9 In the event that it became an energy  
10 classified dollar, they would have 43 cents of that dollar  
11 allocated to them, so it's a difference of 13 cents. So it  
12 was a relatively major split between demand and energy  
13 affecting that customer or that class. The other customer  
14 classes at that time all had the opposite factor. They would  
15 be benefitted in the overall cost-of-service study by  
16 allocations to energy and, conversely, have the other outcome  
17 by allocations to demand.

17:07

18 In this study, we're in a fairly different  
19 situation. We don't have anybody nearly with the difference  
20 between the two, any classes that are at sort of 13 percent.  
21 Residential, non-government has a difference of about 7  
22 percent. So, energy allocations lead to 41 cents to  
23 residential non-government. Demand leads to about 48 cents  
24 to residential non-government. They split about 7 cents.  
25 But the effect is much, much smaller. That's the point and

17:08

1 it's sort of consistent here in other places.

2 When you see industrial customers dealing with  
3 cost-of-service studies, their concern or their caution would  
4 be Xs of allocation of cost to energy because they're, based  
5 on their load factor, a much bigger share of the overall  
6 energy pie than they are of the demand pie.

7 A. MR. OSLER: And just in the context of the  
8 '90s, the issue that -- one of the big issues of that  
9 particular example that you just gave -- reflected was  
10 Whitehorse No. 4 unit. That was the new unit. It was the, I 17:09  
11 don't know, the \$50 million out of a \$95 million asset that  
12 Yukon Energy bought when it got the NTPC asset. So it was  
13 the new equivalent of the Mayo-Dawson and Carmack-Stewart of  
14 that era. And the debate over whether it should be a load  
15 factor assigned plant or 100 percent energy plant was the  
16 essence of some of the cost-of-service debates of that era  
17 for the very reasons we're talking about, and Kerr or Faro  
18 Mine, or Anvil Range Mine/River, whatever they were called  
19 from time to time, were very active in hearings like this  
20 seeking to argue the issues that Mr. Bowman was just talking 17:10  
21 about.

22 In the Yukon, and we've seen the same thing in  
23 some other jurisdictions where you have large high load  
24 factor industrial customers, this discussion is not academic;  
25 it's sometimes the core of a hearing over classification

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1 issues.

2 Q. Thank you. Now, in UCG-11, there's a reference to the  
3 application to page 3-5 that talks about the Aishihik  
4 generation is considered to not contribute to the WAF systems  
5 ability to serve peak loads at critical times due to  
6 transmission constraints. Now, then in -- this is a  
7 statement taken -- you wouldn't have it in front of you  
8 -- but taken from the YUB report on the 20-year resource  
9 plan, which stated that: (as read)

10 "In addition to the third turbine under  
11 YEC's plan is not a capacity  
12 requirement determined by the planning  
13 criteria but rather a requirement  
14 driven strictly by economic reasons  
15 named to offset future diesel  
16 generation that is expected to increase  
17 under the base-case load forecast.  
18 However, should the actual loads turn  
19 out higher or lower than the loads  
20 under the base-case forecast, the  
21 optimal timing of the third turbine  
22 would move earlier or later than 2013."

23 Now, can you explain the dichotomy between  
24 considerations of the Aishihik's inability to serve peak  
25 loads due to transmission constraint and the need for

17:11

17:12

1 additional generation at the Aishihik plant to furnish energy  
2 and capacity under base-case load forecast?

3 A. MR. OSLER: Yes. Essentially, my  
4 understanding of the Board's statement there was that it  
5 reflected the evidence that the company gave that the  
6 rationale for the Aishihik third turbine was not related to  
7 what we're calling in this hearing capacity, peak demand. It  
8 was related to saving diesel energy. And the issue of  
9 whether it was justified depended on the level of the load,  
10 and if the load wasn't high enough, it should be delayed 17:13  
11 because there wouldn't be enough savings to offset its costs.

12 And in the subsequent Carmack-Stewart review,  
13 when we knew we had \$5 million of federal funding for that  
14 same unit, the evidence and the eventual Board recommendation  
15 reflected that and said, Okay, now the cost has been reduced  
16 enough, we don't have to worry about the sensitivity to the  
17 load timing, and it makes sense to proceed on a near-term  
18 schedule.

19 But the whole rationale for those assessments,  
20 those calculations, as provided to the Board in various 17:14  
21 exhibits at that time, were all to do with saving of diesel  
22 fuel, which is called energy in this context today, and  
23 nothing to do with saving of capacity requirements, which in  
24 that report, the company was saying we had some issues of  
25 capacity planning requirements because of diesel retirements

1 and the company was saying it was going to have to spend a  
2 certain amount of money to refurbish these units and pay  
3 attention to the capacity planning requirement.

4 So we weren't saying there was a surplus of  
5 capacity, as we're using the word in this hearing, on the  
6 system, but we were saying that, unfortunately, the Aishihik  
7 third turbine would not help at all in solving that problem  
8 in the near term as we could see it because of the N minus 1  
9 constraint.

10 Q. If I heard you correctly, Mr. Osler, you said that the  
11 justification to proceed with the Aishihik's third turbine  
12 was a near-term opportunity to displace diesel. Is that  
13 correct?

17:15

14 A. MR. OSLER: Yes.

15 Q. Is it not true that in the near term, diesel is, in the  
16 main, a capacity provider? If you can elaborate on that.

17 A. MR. OSLER: Yes. And our use of language  
18 can help confuse everyone. Diesel, unfortunately, is being  
19 used to give two different types of comments here. Diesel,  
20 as a set of engines, for which we have depreciation,  
21 interest, profit, O & M relating to whatever the  
22 classifications, and my colleagues can give you the details,  
23 but diesel, the basic cost to just keep the units there, we  
24 are saying, and we said before, and we're saying again today,  
25 are 100 percent capacity-related no matter whether they're in

17:15

1 Watson Lake in a diesel-served community or on the grids.

2 So in that sense we're saying the diesel is  
3 there for capacity purposes. And then just to keep  
4 everybody's heads spinning, we then turn around and say  
5 diesel fuel in the '90s, and again today, is, of course, 100  
6 energy. So the same units at Dawson get split up into their  
7 before and today into their capacity-related costs and  
8 they're fuel-related costs, and in each case, it's 100  
9 percent, one to demand and the other one to energy. But  
10 they're the same diesels, from the layman's point of view,  
11 and I don't know how we can make the language any clearer,  
12 unfortunately.

17:16

13 A. MR. BOWMAN: If I may add to that. When  
14 you're reading the quote about the Aishihik third turbine, it  
15 is saying what may sound like two incompatible statements,  
16 even though they're actually perfectly compatible, that on  
17 the one hand adding 7 megawatts at Aishihik gives you no  
18 ability to either reduce megawatts of diesel units installed  
19 elsewhere or to take credit for that to offset future  
20 investment in diesel units. There's no megawatt credit. But  
21 at the same time, adding this Aishihik third turbine at  
22 Aishihik does allow you in the future to use less diesel fuel  
23 to operate the system because you can better optimize the  
24 water out at Aishihik, and 99.99 percent of the time Aishihik  
25 is available for supplying the system.

17:17

1                   So it becomes a valuable resource that has a  
2   good business case to offset diesel fuel, and the diesel fuel  
3   that it's offsetting is something that is otherwise  
4   classified 100 percent energy. But the diesel engines it  
5   fails to offset are the capacity-related resource.

6   A.   MR. OSLER:                   Just because this is a material  
7   issue in this hearing, I'll make one more comment.

8                   The test, one way to look at it in a practical  
9   purpose, is this Board, in a couple of GRAs, has dealt with  
10   justification for those early refurbishments and other costs  
11   the company is spending to look after capacity requirements  
12   and has addressed when we had a shortage and addressed when  
13   it thinks we have a surplus and shouldn't bring some more  
14   units into -- like the units at Minto, bring them into the  
15   2009 requirement.

17:18

16                  In none of those discussions -- in none of  
17   those GRA discussions, resource plan discussions, part 3  
18   discussions, has anybody suggested that Aishihik third  
19   turbine could help reduce those costs that we're talking  
20   about for the Mirrlees because, essentially, it's recognized  
21   that the third turbine, even though we're developing it, will  
22   not contribute to peak capacity. So the company is prudent  
23   on spending those monies on the Mirrlees units in order to  
24   meet the capacity needs of the Yukon grid and it can't rely  
25   on the fact that it's also spending money on the Aishihik

17:18

1 third turbine to help offset that requirement.

2 So it's consistent, and it has already been  
3 determined in several of the Board's determinations, you  
4 know, these types of things. And this logic that you're  
5 seeing in the cost-of-service study is attempting to reflect  
6 that.

7 Q. Thank you. Now, trying to understand some of the  
8 descriptions or what the descriptions are attached to the  
9 different classes, my first question is what's the difference  
10 between residential and non-residential government customer?  
11 Maybe just to rephrase. There's residential government and  
12 there's residential non-government. I know what  
13 non-government seems to suggest, but what is residential  
14 government?

17:19

15 A. MR. OSLER: There's an answer, while my  
16 colleagues are looking for it, that essentially says the  
17 difference is in order in council that says if the customer  
18 meets this test, they're called government. And the answer  
19 also suggested that, other than that, they're both  
20 residential and they have to meet, you know, the technical  
21 requirements for being a residential customer rather than a  
22 general service customer. I don't have it at my fingertips  
23 which answer that is, but I believe that is the essence of  
24 the answer.

17:20

25 Q. All right. Would you undertake to provide that

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1 explanation?

2 A. MR. OSLER: We can find it. But my  
3 colleagues -- you're interested in the difference between  
4 government and non-government, not between residential and  
5 general service?

6 Q. No, exactly.

7 A. MR. OSLER: In order to keep things moving,  
8 we can certainly find the IR and if you need to have any more  
9 elaboration, we'll give it to you shortly.

10 A. MR. PALLADINO: The response is YUB No. 10.

17:21

11 Q. All right. Can you read it out so that we all  
12 understand what the distinction is.

13 A. MR. OSLER: Right. That's the one.

14 A. MR. PALLADINO: So in YUB No. 10, starting at  
15 line No. 10: (as read)

16 "A government customer is defined in  
17 rate policy directive 1995 (OIC  
18 1995/90) as: (a) a retail customer who  
19 was a federal or territorial department  
20 agency; (b) a body, other than one  
21 carrying on a business with a view to  
22 making a profit that derives all or  
23 substantially all of the funding from a  
24 body referred to in (a). As a result,  
25 there are no differences that

17:22

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1 differentiate a residential customer  
2 other than its  
3 government/non-government  
4 classification."

5 Q. You can understand why I'm asking it. How does the  
6 company or how do the companies interpret who falls where?

7 A. MR. MOLLARD: For all practical purposes, and  
8 I think I'll leave it to my friends at YECL to jump in on  
9 this one as well, for residential government, that would be  
10 represented by Yukon Housing Corp. units that they rent out. 17:22  
11 They're the territorial Crown corporation, I would think  
12 would be substantially the largest component of that class of  
13 residential government class.

14 A. MR. OSLER: It's probably declined a bit as  
15 things have happened over time, but you have to realize that  
16 it wasn't something that somebody dreamed up with the  
17 Order-in-Council. When NCPC's assets were acquired, there  
18 were government customers. So it was a question of the  
19 Order-in-Council reflecting that distinction as at the time.

20 I think there's a provision in the 17:23  
21 Order-in-Council for appeal to this Board if there was a  
22 dispute over it as well.

23 As I recall it, it's largely been a question  
24 of reflecting what was there and then try to manage it over  
25 time. The municipal government meets the definition, but we

1 have treated them, over time, with rates that are equivalent  
2 to non-government rates because of some decisions that have  
3 been made. So we've tried to wrestle with what was there and  
4 how to change it. Today it is basically the territorial  
5 government predominantly, I'm advised, and some federal -- I  
6 mean any federal facilities, but the federal are not as  
7 dominant today as they would have been at the time we started  
8 all this.

9                   There is no practical impact on municipal  
10 because it's treated, no matter how it's called under our  
11 rates now, as the same as non-government, and the residential  
12 is a very, very small government component that must have  
13 some historical background to it in order to really  
14 understand it.

17:24

15 Q. Just to follow up on that one, are there any first, any  
16 new customers that would ask to be connected under the  
17 government residential as far as anyone on the panel's aware?

18 A. MR. MOLLARD: Yeah, it would be a very, very  
19 small number if it did happen. I don't think Housing Corp.  
20 is in the business of expanding their fleet of houses that  
21 they rent out, but I can't say for sure.

17:25

22 Q. Right. So let's say when somebody's applying to be  
23 connected for service --

24 A. MR. MOLLARD: Yes.

25 Q. -- how does the company determine which class they fall

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1 into?

2 A. MR. MOLLARD: If the bill was going to Yukon  
3 Housing Corporation, they would be residential government.

4 Q. It's that simple?

5 A. MR. MOLLARD: Yeah, it would be that simple.

6 Q. Okay, thank you. That's all I wanted to understand.

7 From the evidence, considering the growth in  
8 the commercial base in the Yukon over the last decade, can  
9 you explain why allocations to the commercial customer base  
10 have decreased?

17:26

11 A. MR. OSLER: Could you help the panel maybe  
12 by clarifying, are we talking about demand allocations?  
13 Energy allocations? I think that the question, as I  
14 understand it, would probably be relating to demand because  
15 the energy would reflect the energy.

16 And the second clarification would be -- I  
17 assume the question means ignoring the fact that the  
18 industrial contribution to the whole picture has changed  
19 dramatically? You're looking at a comparison of residential,  
20 commercial and why has the commercial allocation gone down?  
21 Is that the essence of the question?

17:26

22 Q. Yes, why has it decreased. I mean, why have the -- why  
23 has the growth of the commercial base gone up but yet the  
24 allocations to the commercial customer base decreased?

25 A. MR. BOWMAN: When we deal with the

1 cost-of-service study, which is, I take it, where you're  
2 focusing the allocation of costs and the cost-of-service  
3 study. There's really only four ways that costs are brought  
4 forward and allocated to a class. One of those we spoke of  
5 earlier, which was directly allocated costs, and that's not  
6 relevant to the commercial. That's street lights and things  
7 such as that. So that one's out. We're really just talking  
8 about three.

9                   And the second of those would be  
10 customer-related costs, and customer-related costs to the  
11 commercial class, given the size of the class, will get --  
12 each customer will get allocated a certain share of costs,  
13 for each customer in the class they'll be allocated a certain  
14 share of the cost. Not much has changed on that front  
15 either. If anything, probably it's gone up a bit because the  
16 average size of a commercial customer in the Yukon over the  
17 ten years has gone down a bit.

17:27

18                   The energy-related costs are allocated  
19 kilowatt hour for kilowatt hour. So if the class grows and  
20 takes more kilowatt hours, it gets more energy units and that  
21 one's very, very straightforward.

17:28

22                   Previously the class was 60 gigawatt hours out  
23 of 517, they got -- you take the energy of the cost, divide  
24 it by 517 and multiply by 60 and that's the costs that go to  
25 the general service non-government. Sorry, I said 60.87.

1 Now they're 129 gigawatt hours out of 383 and you do the same  
2 math and you come up with the percentages.

3 So if a class grows in the energy side, it's  
4 going to get exactly the same energy allocation. So those  
5 are pretty straightforward.

6 The only one that is left in terms of costs  
7 that get allocated is related to demand and it's the  
8 demand-related costs that have changed for the commercial  
9 customer group for the exact reasons we were talking about  
10 earlier, that when you look at the commercial class and 17:29  
11 you're trying to figure out how much demand to allocate to  
12 them, you have to use certain methods to determine what their  
13 demand as a class are, and those methods, as applied in this  
14 cost of service, would suggest that general service as a  
15 class has a higher load factor meaning relatively less demand  
16 for every unit of energy which means they get allocated less  
17 of the demand cost. That's the issue we spoke of earlier  
18 that is a matter of the company's agreement and there is some  
19 suggestion to do further work before our next cost of  
20 service. 17:29

21 A. MR. DUNCAN: Just maybe to add to that. The  
22 distribution classification factors did lower the demand  
23 going to the customers. The data that we'd previously used  
24 in '96/'97 was based on Alberta Power data, and the study we  
25 did updated it with Yukon-specific data and that's why we

1    **changed the classification factors.**

2    Q.    Thank you.  Now, on to just, again, more clarification  
3    in relation to the cost-of-service study.  With respect to  
4    the Yukon, can you provide a definition as to what is termed  
5    as a distribution voltage and what's defined as transmission  
6    voltage?

7    A.    MR. MOLLARD:                   For the purposes of our system,  
8    we tend not to look so much at the voltage itself, more as to  
9    what the nature of the service provided by that asset.  So,  
10   for instance, a line that in the south is commonly used as a  
11   distribution voltage.  A 35 kV voltage is very commonly used  
12   as distribution, and we have 35 kV lines here that we have  
13   classified as distribution in certain circumstances.  For  
14   instance, the line that connects the Aishihik plant to the  
15   community of Haines Junction, its function is primarily to  
16   transmission energy to the community to serve that community.  
17   We classify that asset as transmission.  So it's more the  
18   nature of the asset and what it's doing than its voltage, per  
19   se.

17:31

20   A.    MR. DUNCAN:                   For Yukon Electric, we would  
21   say that if it was 66,000 volts and higher, it would be  
22   transmission, and less than that would be distribution.

17:31

23   Q.    Thank you.  Now, in relation to the -- and I'm just  
24   looking to see -- the energy demand and loss analysis that's  
25   part of the evidence.  It's the Excel workbook.

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1 Now, Yukon 2008 FC and Yukon 2009 FC worksheet  
2 titles respectively make reference to 2008 and 2009 forecast  
3 energy demand and loss analysis for Yukon Energy Corporation  
4 and Yukon Electrical.

5 Now, with respect to these two worksheets,  
6 which numbers are the actuals and which numbers are the  
7 forecast or estimated or calculated? If you can just  
8 explain.

9 A. MR. DUNCAN: I just have to put the CD in it  
10 and have a look at it.

17:33

11 Q. If you could repeat it. I couldn't hear you.

12 A. MR. DUNCAN: If you're looking at the FC  
13 tabs, they're all a forecast.

14 Q. Yes.

15 A. MR. DUNCAN: Those would all be forecasts.

16 Q. So those are all forecasts? There's no distinction in  
17 the two worksheets?

18 A. MR. DUNCAN: No.

19 Q. Thank you. Just a follow-up question. Would those  
20 forecast numbers for 2008 and 2009, why were they used for  
21 the study versus the actuals because they would be known now  
22 when, or were they known when you were doing this study?

17:34

23 A. MR. DUNCAN: I don't believe they were known  
24 when the study was done.

25 Q. And when was the study done?

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1 A. MR. DUNCAN: It was late 2009.

2 A. MR. BOWMAN: It's also important to  
3 recognize that when you're doing a cost-of-service study for  
4 a test year, you have a revenue requirement premised on a  
5 certain set of loads. So, when you go into the  
6 cost-of-service study, you would tend to reflect that  
7 forecast revenue requirement contrasted and applied against  
8 that same set of forecast loads that are consistent with each  
9 other. So that's why you would use a forecast even if  
10 perhaps you had some more actual data. The tendency would be  
11 to use a consistent test year set of numbers.

17:35

12 Q. Now, I have some more general questions related to the  
13 cost-of-service study. How often are customer meters read?

14 A. MR. MOLLARD: They're read on a cycle  
15 between, I think, 26 and 34 days.

16 Q. And so that you would consider that to be a monthly  
17 read?

18 A. MR. MOLLARD: Essentially.

19 Q. Essentially. And are there estimates rather than meter  
20 readings, or are they meter readings in all cases?

17:36

21 A. MR. MOLLARD: Our policy is to read the meter  
22 every month. On occasion, for various reasons, weather, et  
23 cetera, we can't get to a meter and we will read it. I  
24 believe our policy, subject to check, is that we won't allow  
25 a meter to go more than two months, I think, on an estimate,

1 and we'll make sure that we get out and do a reading.

2 Q. And is it the same for YECL?

3 A. MR. PALLADINO: Subject to check, that would be  
4 the case, yes.

5 Q. Thank you. Now, in respect to planning for the need for  
6 future transmission lines and generation plants in the Yukon,  
7 how does the company, assuming that -- if we assume that it's  
8 done on a regular basis, is it annually or estimate peak load  
9 requirements on the WIF and MD systems, or do the companies  
10 use the metered data? Like, basically if you can explain how 17:37  
11 you plan transmission.

12 A. MR. MOLLARD: Primarily we're looking at two  
13 major factors, the capacity and the energy requirements on a  
14 forecast basis. As part of our annual budgeting cycle, we  
15 would do a detailed forecast. Obviously for Yukon Energy,  
16 the largest part of our load is what's coming from Yukon  
17 Electrical so we work closely with them on what their energy  
18 requirements are and what the profile of their load is going  
19 to be.

20 The capacity piece tends to also be driven 17:38  
21 -- both pieces tend to be driven a lot by our resource  
22 planning which we do in detail on a five-year cycle, and that  
23 involves looking at both systems in great detail and what we  
24 know about key drivers, major subdivisions, commercial  
25 growth, industrial growth. And those are the factors that we

1 would look at and we would try and keep that updated on a  
2 cyclical basis to make good decisions on supply options.

3 Q. What is the cyclical basis that you use? Like how  
4 often?

5 A. MR. MOLLARD: We did a resource plan in 2006  
6 that we brought before the Board. We're now just entering  
7 the update stage of that. But we do updates more frequently  
8 for known things. If an industrial customer knocks on our  
9 door and says, hey, we're coming, we'll assess that load, its  
10 timing and magnitude and see if we need to make an adjustment 17:39  
11 between cycles if that's the case.

12 A. MR. OSLER: How frequent? Sometimes it  
13 seems to be every few months. I mean, it's been -- the  
14 nature of YEC, and it may be different for YECL, but Yukon  
15 Energy issues since the last resource planning hearing have  
16 been driven by major opportunities or requirements. Major in  
17 the sense, very discontinuous. They're not a question of a  
18 regular cycle.

19 So the company would do a regular business  
20 plan cycle where it would once a year update its forecast 17:39  
21 internally and its business plan and take it to its Board of  
22 Directors and do that by roughly the end of the calendar  
23 year, and they would go through all the normal things you'd  
24 expect of a utility.

25 Some of the rest of us, in the middle of all

1 that, have been doing updates fairly frequently for new mines  
2 or new opportunities or new hearings. And every time we have  
3 another hearing for a major project, we certainly have to  
4 update whatever we've got before we walk into the hearing  
5 because everybody will want the latest information.

6 So I think Yukon Energy's situation is a bit  
7 of an anomaly compared to some other utilities I know of, and  
8 it's for those reasons that it's likely to keep being that  
9 way as long as things are happening with the regular annual  
10 cycle and then the five-year business plan cycle more for the 17:40  
11 outside world to see how the overall picture is being  
12 reassessed.

13 I think Yukon Electrical might want to comment  
14 on it from their point of view, and I think it's probably  
15 different.

16 A. MR. PALLADINO: From a distribution point of  
17 view, there are some similarities in terms of how we look at  
18 the system going forward, but it is contingent on our load  
19 assumptions that we have in the short term and also in the  
20 long term as well, too. So we are continuously updating our 17:41  
21 models to reflect those changing conditions.

22 But it's safe to say on an annual basis that  
23 the models reflect the current system conditions, and to the  
24 extent that we know what customers are coming online within a  
25 short period of time, we reflect those changing system

1 requirements in our planning requirements and business plan.

2 Q. There's been discussion earlier today that the loss of  
3 the Faro mine as being a relatively significant event that  
4 occurred since the last '96/'97 cost-of-service study. Now  
5 have there been any other significant events since that  
6 cost-of-service study that haven't been mentioned?

7 A. MR. MOLLARD: On the load side? Are you  
8 referring to the load side or supply side?

9 Q. If you can address both.

10 A. MR. BOWMAN: We spent a bit of time going  
11 over this type of material in the tabs leading up to Tab 3.  
12 So Tab 1, in particular is what's changed on the system. The  
13 closure of the Faro mine was clearly a major factor.  
14 Subsequent to that, you'll find that the availability of  
15 surplus hydro provided an opportunity to develop the  
16 secondary sales program and that group of sales, you know,  
17 topped out at 20 gigawatt hours or something of that nature.  
18 It's quite a large program.

19 I'm looking, by the way, at page 1-7 now,  
20 which goes through the closure of the Faro mine, material  
21 increases in diesel prices. We're sitting here today with  
22 diesel at about two and a half times as expensive as it was  
23 back when the last study was done. Diesel generating  
24 capacity, which for many years did not see a lot of  
25 investment had a flurry of activity driven out of the last

17:42

17:43

1 resource plan where there was a need to deal with capacity  
2 planning and deal with some life extension.

3 Transmission is the big story on the overall  
4 developments on the system and investment, Mayo-Dawson and  
5 Carmack-Stewart in particular, and now where we're dealing  
6 with diminishing WAF and Mayo-Dawson hydro surpluses which is  
7 driving the need today to recognize that over the coming  
8 years, the coming short number of years, notwithstanding  
9 renewable energy developments, diesel, as a price driver, and  
10 as a component of the system supply, is going to become 17:44  
11 increasingly a major factor.

12 A. MR. OSLER: And can I just add, from the  
13 bulk system point of view, we didn't put it in that earlier  
14 list, some of the reviews we've been doing.

15 The other big change today versus ten years  
16 ago is sort of the obverse of the Faro mine closure. The  
17 system has grown in the non-industrial area materially over  
18 that time period. And so today, if you had a Faro mine come  
19 back on, it would be a totally different mix of load. Not so  
20 much mix, but much larger scale relative to the assets that 17:45  
21 were in place then, and that's another way of saying the  
22 surplus is diminishing due to the passage of time.

23 So all of the things we've been talking about  
24 in resource planning reflect the big system changes when  
25 you've just had I think it's 14 years, we kept saying 12, but

1 it's about 14 years since the last hearing on this matter for  
2 cost of service.

3 A. MR. DUNCAN: For Yukon Electric we've had a  
4 number of new customers added that are high load factors.  
5 There are three or four large box stores that have opened up  
6 since '96/'97 like Wal-Mart, Superstore, Canadian Tire, those  
7 type of customers. There's also been three or four mall  
8 complex, Chilkooot Mall, ReMax complex, Quadra equities.  
9 There's also been three or four new car dealerships open up  
10 and there's also been a large number of new restaurants - 17:46  
11 Boston Pizza, Earl's, Mark's Work Warehouse, that type of  
12 thing.

13 Q. Thank you. I was trying to understand, and maybe I  
14 didn't understand you earlier this morning clearly, the  
15 testimony, that the company submitted that the revenue to  
16 cost ratios between 1997 and 2009 were relatively unchanged.  
17 Did I understand that correctly?

18 A. MR. BOWMAN: For the major classes, yes.  
19 One thing you'll find is sometimes for a very small class,  
20 you can see some swings, but for the major classes that are 17:46  
21 larger in number and larger in overall revenue requirement,  
22 the changes have been relatively small. And, in particular,  
23 I'd highlight the residential non-government which was at  
24 about 81 percent and is now 79. The general service  
25 government, which was at 143 and has become 144. General

1 service non-government has had a bigger swing, but partially  
2 for the reasons we discussed earlier but from 110 to 117.

3 A. MR. OSLER: I think the thrust, the thrust  
4 of the point is to deal with the dichotomy that was there in  
5 '97 between residential and general service non-government as  
6 the only two that were outstanding, one on one side, and one  
7 on the other side. Sorry, general service non-government.

8 A. MR. BOWMAN: No, government.

9 A. MR. OSLER: Government, sorry. It's  
10 getting late. General service government versus  
11 non-government residential. And non-government residential  
12 was well below the cost of service in the sense that it  
13 wasn't paying its cost and government was the one funding it.

17:47

14 And the decisions in that hearing -- it's  
15 interesting to go back and see what the revenue cost ratios  
16 were before the Board made its decisions. Street lighting  
17 had a very high revenue to cost ratio and got some great  
18 reductions in that hearing. And there are some other  
19 adjustments made for non-government general service to bring  
20 them down to 110. So that's the -- that's the headline, I  
21 guess. It hasn't really changed much. That's the dichotomy.  
22 What has changed is the general service non-government has  
23 slipped outside of the 110. It's gone up to a higher number.  
24 And there's a big change in the street light story. Street  
25 lights, in one case, have gone way down and in the sentinel

17:48

1 case have gone way up. So that's the key. Those are  
2 material changes compared to what's there before. I don't  
3 think we want to ignore that in terms of an observation.

4 Q. And again, this is just a clarification from earlier  
5 testimony. I believe in answer to Mr. Buonaguro's questions,  
6 you stated that wind is relied upon to meet peak demand  
7 -- peak system demand; is that correct? And if you can  
8 clarify.

9 A. MR. BOWMAN: If that's what I said, I will  
10 clarify. There should be a word not in there. I may have  
11 said that at -- that -- similar to other systems, when you  
12 have what we sometimes refer to as "non-dispatchable supply  
13 resources," wind or sometimes IPPs, some other type of  
14 resources, they may happen to be generating at the time of  
15 system peak supply, but they are not a component of planning  
16 for the ability to meet your system peak supply.

17:49

17 Q. Thank you. Now, just to go back to the cost causation  
18 type classification, does the cost causation presuppose that  
19 that classification, save generation and transmission plant  
20 assets, be based on how an asset is used? So basically how  
21 you classify.

17:50

22 A. MR. BOWMAN: With respect to the bulk power  
23 methods, which are the ones that Yukon Energy took the lead  
24 on, you have to be a bit careful in dealing with how an asset  
25 is used as the driver for a cost-of-service classification.

1 And I can give some examples of that, but I think it's  
2 underlined by the things we were discussing earlier.

3 Wind may tend to be used to supply energy as  
4 and when available. It may happen to be used at peak times  
5 just by energy -- or by demand, but you don't classify it to  
6 demand because you don't plan on that basis. So while you --  
7 you might look at use; it would tend to be much lower on the  
8 list of things that you get -- get caught up looking at.

9 Another example would be -- you know, there is  
10 a substantial amount of diesel generation, diesel engines  
11 installed on this system. Those are absolutely needed to be  
12 installed and maintained, and this Board has concluded the  
13 same in order to be able to ensure reliable supply. How are  
14 they typically used? They're not. They're typically not  
15 used at all. They're typically sitting there just waiting  
16 for the day when they need to be used, and the capacity  
17 planning criteria underlines why they're need. But that --  
18 that's the use game you have to be a little bit cautious of.

17:51

19 Q. So what you're saying is that the allocation of costs is  
20 not dependent on usage, as to whether they go to energy or  
21 demand?

17:52

22 A. MR. BOWMAN: I didn't say -- I didn't say  
23 it's not dependent on it, but it would be less of a factor  
24 than why it was built, what is the planning basis for the  
25 plant, what type of costs, what type of economic

1 justification arises, or what type of cost does the plant  
2 offset rather than focusing on use, per se.

3 Q. Thank you.

4 A. MR. OSLER: In this conversation, the word  
5 "use" is being used to deal with sort of typical way in which  
6 an asset may in fact operate or be "used." Sometimes people  
7 don't necessarily think that precisely, and when they use the  
8 word "used," they think in a planning context. And in a  
9 planning context, you know, when we're trying to justify to  
10 this board Board the use of an asset we want to get  
11 permission to get recovered from ratepayers, we are talking  
12 in a planning context, and we probably would adopt language  
13 that might get confusing in the context of what we just  
14 finished talking about. So it's a difficult word that seems  
15 to cause some -- it doesn't get the point across. And we  
16 certainly look at, from a planning point of view, how that  
17 asset's going to be justified in meeting the needs.

17:53

18 Q. Thank you. Now, do the companies believe that the  
19 customer classes, both for YEC and YECL, the customer classes  
20 that are served, have very different load characteristics;  
21 that is, that the load factor is in a very tight band or that  
22 the loads differ significantly. If you can explain.

17:54

23 A. MR. PALLADINO: I guess I struggle a little bit  
24 with the question, Ms. Bentivegna. I guess there are some  
25 differences when you're looking at the rate classes from a

1 residential and a general-service level. I think when you  
2 look at a homogeneous residential rate class, I don't think  
3 you'll find different load characteristics or even service  
4 characteristics. I think they are fairly -- fairly similar.

5 The general service, it is a little bit  
6 different in that the current rate class that we have in  
7 place to serve general service customers encompasses  
8 customers that are small in load size, and we have customers  
9 that are very large in load size. So in terms of the service  
10 characteristics in that sense, there is -- there may be a  
11 difference. And we've spoken or we will speak about that a  
12 little bit more in our rate-design sections, but that was one  
13 of the reasons why we introduced a further block on the  
14 energy side for our rate class, for general service rate  
15 class, but we'll get into that discussion later.

17:55

16 But from a service characteristics point of  
17 view, I think when you're comparing general service  
18 customers, there may be some differences.

19 A. MR. BOWMAN: And you asked both. I think  
20 that's a fair answer. Particularly in the context of this  
21 system as it is today, residential customers are quite a bit  
22 different than commercial customers. If we were sitting here  
23 in '97, we would probably have a tendency to say, residential  
24 customers and commercial customers are quite similar, as  
25 compared to that industrial customer sitting over there, the

17:56

1   Faro Mine. So it's a matter of degrees, if you like. But if  
2   you look at, you know, how people use energy, if you look at  
3   what we call their "load factor," so how -- given how high  
4   they peak, how many hours a day do they tend to be using  
5   power? If you look at what we call their "coincident  
6   factor," which is do they tend to be on or off at the time of  
7   system peak, or do they tend to be somewhere in the middle?  
8   There is a -- you know, a reasonable distinction between  
9   residential customers and commercial customers, and that's  
10   probably particularly true here where at this point there is  
11   only one class for commercial and non-government customers,  
12   covering everything from a corner store to a saw mill or  
13   something. Like, it's a relatively large range. Larger  
14   systems will have a tendency to break that down into smaller  
15   class of a -- like a small general service class versus a  
16   large one, and there's even some discussion about that you'll  
17   fine in the rate-design section.

17:57

18   A.   MR. OSLER:                   Just to make one more obvious  
19   point. We had the industrials here. The industrial  
20   customers don't tend to take the distribution function, so  
21   the costs they're allocated tend to be bulk power. General  
22   -- all the general service and residential and so-called  
23   retail classes certainly are -- are populating the  
24   distribution function, along with the bulk power functions in  
25   their costs.

17:57

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Questions by Ms. Bentivegna

1 Q. So just on that point, what is the load factor  
2 difference between the industrials and the commercial?

3 A. MR. BOWMAN: Between the industrial and  
4 commercial?

5 Q. Yes.

6 A. MR. BOWMAN: Well, in this study in this  
7 ETLA study, you'll find that they were actually -- the same  
8 load factor was used between industrial and commercial. In  
9 practice, we know that the industrial customer is somewhat  
10 higher load factor than that with experience. In fact, one 17:58  
11 of the larger revenue variance items for Yukon Energy has  
12 been related to the industrial customer's peak, and the fact  
13 that it didn't quite peak quite as high as people, when they  
14 set the revenue requirements, assumed it might. You just  
15 about set the right -- the amount of energy but didn't peak  
16 quite as high. So its load factor in practice is a little  
17 bit higher. But in this study, it was -- it was run at the  
18 same levels, and that was relatively consistent with what was  
19 assumed to be the billing determinants in Yukon Energy's  
20 revenue requirement. 17:59

21 A. MR. OSLER: This industrial customer's load  
22 factor in this study is lower than the Faro Mine, much lower,  
23 so it tends to be -- right now we know from experience that  
24 the load factor in our forecast today would be higher for  
25 that mine at the moment than it was in the 2009 approved

1 forecasts. But I think a lot of the mines we're talking  
2 about, industrials we're talking about right now, will tend  
3 to have a lower load factor than Faro did because Faro was a  
4 big integrated operation. And the other issue of how similar  
5 that is to general service is the entire issue that was being  
6 discussed over how much people want to rely upon the current  
7 estimate of the coincident load factor for general service.  
8 But it's -- they're both very different than residential.  
9 Residential is lower.

10 Q. Thank you.

17:59

11 A. MR. BOWMAN: Well, residential's a lower  
12 load factor. Residential will tend to have -- be a higher  
13 coincidence factor, meaning it tends to peak the same time  
14 the system peaks, because they tend to be a big part of the  
15 class that drives system peak. So it depends on the ratio  
16 you're talking about.

17 Q. Just a follow-up, if you can clarify what the  
18 co-efficient -- coincidence factors are for commercial and  
19 industrial that you were just referring to.

20 A. MR. BOWMAN: Do you mean what I mean by the  
21 term, or what are the actual numbers?

18:00

22 Q. Numbers.

23 A. MR. BOWMAN: The -- it is the ratio between  
24 their non-coincident peak and their coincident peak, which is  
25 all set out at table -- at page 3-12 of the application. But

1 to get the coincidence factor, you have to do some math on  
2 that, and so I actually have it in front of me. The  
3 coincidence factor of commercial customers in this  
4 application is 82.1 percent. The residential's 85.41  
5 percent. And if I'm lucky I have the industrial one. I  
6 don't. I believe, though, because it carried over the same  
7 ratios, it is the same coincidence factor as the commercial,  
8 subject to check.

9 Q. All right. And would you mind, Mr. Bowman, checking and  
10 taking that as an undertaking?

18:01

11 A. MR. BOWMAN: I'm almost certain it is the  
12 same ratio, but if it's not, I'll let you know.

13 Q. All right. Thank you.

14 UNDERTAKING - TO CHECK AND ADVISE AS TO  
15 THE COINCIDENCE FACTOR FOR INDUSTRIAL  
16 CUSTOMERS

17 Q. MS. BENTIVEGNA: And just to clarify, those  
18 would be actuals not proxy?

19 A. MR. BOWMAN: No, those -- those are all what  
20 was used in the cost-of-service study. They're all proxy.

18:02

21 Q. All right.

22 A. MR. BOWMAN: Actuals -- trying to measure  
23 the actual coincidence factor of a class gets you into  
24 exactly the same data issue we were talking about earlier  
25 where you could spend millions of dollars trying to get the

1 meters to figure out what every -- what every customer,  
2 whatever a particular customer is using. In other words, you  
3 know, a meter that's on a corner store or something bigger  
4 than a corner store, a Boston Pizza or something, will have a  
5 peak on it, and it will tell you sometime during the month  
6 what they peaked at. But if you know that it was -- you  
7 know, January 12th at 7 p.m. that the system peaked, that  
8 meter won't tell you what that customer is using at January  
9 12th at 7 p.m., never mind what it, mixed with all the other  
10 customers, were using at that factor. You have to use some  
11 fancy methods to try to do that, and that was the -- the sort  
12 of the cross-checks and, you know, different survey methods  
13 and things that we were discussing earlier. It's -- you  
14 won't get an actual reliable type of number like that out of  
15 Yukon with the data available.

18:02

16 Q. Now, with respect to the Mayo hydro generation  
17 contribution to the Mayo-Dawson's system's ability to serve  
18 peak loads, the companies have stated -- and I believe it's  
19 in CW-3 -- that the appropriate test is not what the plant  
20 normally does but factors such as what the plant is designed  
21 and built to do and what system characteristics drive it's  
22 the costs.

18:03

23 Now, in terms of cost causation, shouldn't a  
24 plant's operation, for the most part, mirror the purposes for  
25 which the plant was designed?

1     A.     MR. BOWMAN:                     Yes. When you have designed as  
2     a term being used in the context of engineering design or,  
3     you know, construction. The Mayo-Dawson transmission line is  
4     a good example, though, where we would say the line is  
5     designed to be able to supply energy and demand and turn off  
6     the Dawson diesels. But the premise for that project -- if  
7     someone sits -- sat down and said, what am I going to do  
8     here, it's I'm going to try to find a way to save on energy  
9     costs by building a transmission line, and this line is  
10    designed for that purpose. The economic -- from an economic  
11    perspective; from a driving factor; from a rationale  
12    perspective. It's not necessarily linked to the same as the  
13    sort of core engineering design where you have to look at the  
14    different characteristics of how that line might operate  
15    under normal circumstances or extreme circumstances, or, you  
16    know, system interruptions or that sort of thing.

18:04

17   Q.    Thank you. Now, going back to YUB-2 and capacity.  
18   THE CHAIR:                     I'm just wondering,  
19   Ms. Bentivegna, if this is an appropriate time? It's 5:05.  
20   Whether you wanted to finish off or whether this is an  
21   appropriate time to finish for the day and begin again  
22   tomorrow?

18:05

23   MS. BENTIVEGNA:                     Certainly, Mr. Chair. I still  
24   have a few questions on cost of service, and then I have some  
25   questions on the terms and conditions. So I think I'll have

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1 between half hour to an hour of questions left, so...

2 THE CHAIR: Did you want to finish off this  
3 one last question, and then we'll break after that, or do you  
4 want to leave it right there?

5 MS. BENTIVEGNA: We can leave it right there. I  
6 was just starting, so...

7 THE CHAIR: Okay. We'll resume again  
8 tomorrow at 9 o'clock.

9 MR. LANDRY: Mr. Chair --

10 THE CHAIR: Yes.

18:06

11 MR. LANDRY: -- just before you adjourn,  
12 obviously the panel is in cross-examination and the normal  
13 protocols apply, but the YEC panel will come on next, and  
14 there were a number of documents that were provided to me  
15 kindly by some other people who are going to be  
16 cross-examining that panel, and I would like to talk to them  
17 about those documents. And I'm just asking, out of caution,  
18 to the Board if that would -- if you and all parties are okay  
19 with me talking to them about those documents?

20 THE CHAIR: Does anybody have any  
21 objections or any concerns with that request?

18:06

22 MR. KEOUGH: And I have a similar request  
23 for the Yukon Electrical sole panel. We have some documents  
24 that I want to talk to them about but not related to their  
25 current appearance.

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1 THE CHAIR: Could I just ask the  
2 intervenors to indicate whether they have any concerns with  
3 that? So I'll start with --

4 MR. BUONAGURO: That's fine.

5 THE CHAIR: That's fine? Okay.

6 MS. KELLGREN: We have no concerns.

7 MR. MAISSAN: I have no concerns, Mr. Chair.

8 THE CHAIR: Thank you.

9 And, YUB, are you fine with that?

10 MS. BENTIVEGNA: Yes, certainly, Mr. Chair.

18:07

11 THE CHAIR: All right. That's it for the  
12 day. See you again tomorrow.

13 -----

14 PROCEEDINGS ADJOURNED TO OCTOBER 6, 2010 AT 9:00 A.M.

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- I N D E X -

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