

1 New Brunswick Board of Commissioners of Public Utilities
2
3 In the Matter of an application by the NBP Distribution &
4 Customer Service Corporation (DISCO) for changes to its
5 Charges, Rates and Tolls - Revenue Requirement
6

7 Delta Hotel, Saint John, N.B.
8 March 16th 2006
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13 CHAIRMAN: David C. Nicholson, Q.C.

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16 COMMISSIONERS: Jacques A. Dumont
17 Patricia LeBlanc-Bird
18 H. Brian Tingley
19 Diana Ferguson Sonier
20 Ken F. Sollows
21 Randy Bell
22 David S. Nelson

23

24 BOARD COUNSEL: Peter MacNutt, Q.C.

25

26 BOARD STAFF: Doug Goss
27 John Lawton

28

29

30 BOARD SECRETARY: Lorraine Légère

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33 CHAIRMAN: Welcome to day 53. Could I have appearances for
34 the record please? For the Applicant?

35 MR. MORRISON: Good morning, Mr. Chairman and Commissioners.
36 Terry Morrison. With me at counsel table is Lori Clark
37 and Michael Gorman.

38 CHAIRMAN: Thank you, Mr. Morrison. Canadian Manufacturers
39 and Exporters?

2 MR. LAWSON: Good morning, Mr. Chairman and Commissioners.

3 Gary Lawson. And I'm appearing with David Plante,
4 expected to be showing up shortly, and Ron Nicholson.

5 CHAIRMAN: Thank you, Mr. Lawson. Enbridge Gas New
6 Brunswick?

7 MR. MACDOUGALL: Good morning, Mr. Chair and Commissioners.
8 David MacDougall for Enbridge Gas New Brunswick. And I'm
9 joined today by Andrew Harrington, Shelley Black and Ruth
10 York.

11 CHAIRMAN: Thanks, Mr. MacDougall. The Irving Group?
12 Mr. Booker here? Yes.

13 MR. BOOKER: Good morning, Mr. Chair and Commissioners.

14 CHAIRMAN: Good morning, Mr. Booker. Municipals?

15 MR. GORMAN: Good morning, Mr. Chairman. Raymond Gorman for
16 the Municipal Utilities. This morning I have Eric Marr
17 and Dana Young with me from Saint John Energy.
18 And I anticipate before the day is out that I will have
19 Charles Martin and Michael Couturier from Edmundston and
20 Dan Dionne from Perth-Andover and perhaps Paula Zarnett
21 with us as well.

22 CHAIRMAN: Good. Thanks, Mr. Gorman. Vibrant Communities
23 here? No. Public Intervenor?

24 MR. HYSLOP: Thank you, Mr. Chair. Peter Hyslop with
25 Mr. Knecht, Mr. O'Rourke and Ms. Power.

2 CHAIRMAN: Good. Thanks, Mr. Hyslop.

3 Mr. MacNutt, whom do you have with you today?

4 MR. MACNUTT: I have with me today, Mr. Chairman, Doug Goss,
5 Senior Adviser, John Lawton, Adviser, Andrew Logan, Jim
6 Easson and John Murphy, Consultants.

7 CHAIRMAN: Thanks, Mr. MacNutt. Any preliminary matters?

8 MR. MORRISON: Yes, Mr. Chairman. I have some
9 undertaking responses to file. But before that there is
10 an important matter came up out of Mr. MacNutt's cross
11 examination yesterday. It appears that Mr. Hyslop isn't
12 the only simple country lawyer in the hearing room.
13 Mr. MacNutt is indeed on the rural rate. He is the only
14 person on his street on the rural rate. And speaking to
15 him this morning, he indicates that he wants to switch to
16 the urban rate. So I want to put everybody on notice that
17 will impact our 06/07 revenue requirement.

18 CHAIRMAN: Good, Mr. Morrison. Mr. MacNutt, you are going
19 to have to mow your lawn now.

20 MR. MACNUTT: It appears so. Thank you.

21 CHAIRMAN: Go ahead with the undertakings.

22 MR. MORRISON: The first is undertaking number 6 from
23 February 9th, Mr. Chairman.

24 CHAIRMAN: And that is A-156.

25 MR. MORRISON: The next one is undertaking number 7 from

2 February 9th 2006.

3 CHAIRMAN: That is A-157.

4 MR. MORRISON: The next one is undertaking number 3 from
5 February 14th.

6 CHAIRMAN: That is A-158.

7 MR. MORRISON: And finally, Mr. Chairman, undertaking number
8 1 from February 21st.

9 CHAIRMAN: And that is A-159.

10 And those are all your preliminary matters,
11 Mr. Morrison?

12 MR. MORRISON: Those are all mine. I believe Mr. Hyslop may
13 have --

14 CHAIRMAN: Yes, he does. Mr. Hyslop?

15 MR. HYSLOP: Thank you, Mr. Chair. As indicated by
16 Mr. Morrison yesterday, the issue relating to the
17 admissibility of two documents that I wanted to put on the
18 record relating to the Orimulsion issue is now resolved.

19 I have given copies to the Secretary.

20 And they consist of two documents. One is the copy of Mr.
21 MacPherson's prefiled evidence at the Orimulsion hearing.

22 And the second is an excerpt from the Crown Corporations
23 Committee hearings last fall.

24 And I would offer those two documents into the record as
25 exhibits

2 CHAIRMAN: Okay. The excerpt from the Standing Committee on
3 Crown Corporations dated November 24th 2005 is exhibit
4 PI-21. That is PI-21.

5 And I take your word for it, Mr. Hyslop, that the next
6 exhibit is a portion of the direct evidence of Mr. Stewart
7 MacPherson before this Board. There is no date. But it
8 is in reference to the Coleson Cove refurbishment as I
9 understand it?

10 MR. HYSLOP: It would be the evidential portion but not the
11 appendixes and schedules that would have been referred to
12 in it, Mr. Chair.

13 CHAIRMAN: Okay. Thank you. That is PI-22.

14 And just as an aside, I really don't see any difficulty in
15 something being introduced that was previously before this
16 Board in another hearing. That is my personal opinion. I
17 have no personal opinion I will express in reference to
18 the other.

19 Any other matters?

20 MR. MACDOUGALL: Yes, Mr. Chair. David MacDougall for
21 Enbridge Gas New Brunswick. You will recall yesterday
22 Mr. Larlee made some comments with respect to his views of Dr.
23 Rosenberg's evidence. And you offered us the opportunity
24 to get a response.

25 I was able to catch Dr. Rosenberg before he headed to

2 Hong Kong for two weeks. And I have a response that I want to
3 file and make a couple of comments on. I will give that
4 to the Secretary and hand it out. And then I can speak
5 briefly to it.

6 CHAIRMAN: Okay. Did you want to -- well, that should be an
7 undertaking or something, shouldn't it, just an exhibit.

8 MR. MACDOUGALL: It is in the form of an undertaking.

9 CHAIRMAN: Okay. Great. That will EGNB-15.

10 MR. MACDOUGALL: And, Mr. Chair, in relation to that you
11 will note there is a blank for the transcript page
12 reference because we did not have the transcript at the
13 time Dr. Rosenberg prepared it. The transcript page
14 reference is actually page 5639. And I would also like to
15 note for the record that Dr. Rosenberg's response is with
16 respect to the GS II rate because that is how I had taken
17 the notes down yesterday, but we didn't have the
18 transcript. The transcript actually -- the question was
19 in reference to the general service rates, so both GS I
20 and GS II, but Dr. Rosenberg has confirmed to me that this
21 response would be similar with respect to GS I. There is
22 a numerical example in here but the numerical example
23 would be different for GS I but would come to the same end
24 result.

25 CHAIRMAN: Thanks, Mr. MacDougall.

2 MR. MACDOUGALL: Thank you, Mr. Chair.

3 CHAIRMAN: Any other matters? Well just before we go back
4 to questioning by the Commissioners, Commissioner Sollows
5 and I were chatting after the close yesterday and I had
6 thought that there was an undertaking to provide certain
7 information concerning the NUG contracts. And we then
8 looked at the transcript and found that Commissioner
9 Sollows and I got into an argument and we didn't elicit an
10 undertaking. So I will ask Commissioner Sollows if he
11 would set the background to it.

12 MR. MORRISON: Perhaps before you do that, Mr. Chairman, we
13 certainly took your comments that day as an undertaking
14 request, or at least an undertaking request. We have made
15 inquiries which we think will respond to your question.
16 We are in the process now of course of vetting that with
17 Mr. Stewart because of the issues that you are well aware
18 of. I have a preliminary -- we had a preliminary response
19 from Mr. Stewart this morning. I have only had a chance
20 to look at it very briefly and we have to circle around
21 with them again at the break. So we certainly took it as
22 a direction for us to provide information, and as we
23 understand it is the ability of economically dispatching
24 the NUGS. So it's not that -- we haven't ignored the
25 issue. We have been dealing with it.

2 CHAIRMAN: Okay. That's great. It was not on the list of
3 undertakings.

4 MR. MORRISON: We know that.

5 CHAIRMAN: But I appreciate the fact that you have got that
6 information.

7 DR. SOLLOWS: It was not just the ability under the contract
8 but the cost implications of moving them out of economic
9 merit.

10 MR. MORRISON: Yes.

11 DR. SOLLOWS: Thank you. I think through this -- and it's a
12 fairly long and rambling transcript reference, so I
13 appreciate that it might have been missed. What we were
14 really looking for was the exhibit that you have most
15 recently filed as A-150, that there be some -- it's
16 probably getting a little crowded, but the thought was
17 there would be a column or a reference or an exhibit in
18 the same format that gave the data for fully economically
19 dispatched capacity on the system, or capacity dispatch
20 for system security reasons.

21 MR. MORRISON: We -- I believe you put that question to Mr.
22 Marois, Commissioner Sollows, about whether we could do it
23 in this particular fashion.

24 DR. SOLLOWS: Yes.

25 MR. MORRISON: I think Mr Marois indicated that --

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2 DR. SOLLOWS: He wasn't sure.

3 MR. MORRISON: Well we concluded that we can't do it in that
4 format. But we did provide information in another
5 undertaking response, and I think that one was marked
6 yesterday, which refers to the undertaking response or the
7 IR response. However, we are -- we do have two
8 undertakings that will address the re-dispatch issue and
9 the cost implications, and our only concern at this point
10 because of the legal issues involved is getting Mr.
11 Stewart to sign off. Otherwise what will happen is if he
12 doesn't agree, then he will have to come down here and
13 argue why it shouldn't be introduced. So --

14 DR. SOLLOWS: Thank you.

15 CHAIRMAN: Okay. Well the Vice-chair has an additional
16 question. That's one thing about going over the evening,
17 why things come up. Go ahead, sir.

18 BY THE BOARD:

19 MR. NELSON: Mr. Marois, just going back to I guess the
20 vesting agreement, the hydro pole adjustment in reference
21 to 6.12. Could you explain for us the difference between
22 top of in-province firm versus top of dispatch?

23 MR. MAROIS: Top of dispatch includes also export sales. So
24 it's really all the generation that includes both to serve
25 in-province and to serve exports, while the top of

26

2 in-province only includes load to serve -- or generation to
3 serve in-province. So that's why we were convinced that
4 the right way to do the hydro adjustment is to use the in-
5 province -- top of in-province curve because the hydro
6 adjustment is really an adjustment of the vesting price
7 initially set at the beginning of the year which is based
8 on the in-province load, because the vesting price is to
9 serve the in-province load. So it's totally consistent
10 with how you set the price at the outset of the year.

11 MR. NELSON: So the top of dispatch is based on economic
12 dispatch?

13 MR. MAROIS: They are both based on economic dispatch but
14 one is only -- is for the load that is used to serve in-
15 province. The other one includes all the load to serve
16 in-province but also -- the total generation really. That
17 includes export sales.

18 MR. NELSON: Okay. That includes export sales. So it's all
19 the generation companies right in line versus you are only
20 taking for top of in-province certain generation capacity.

21 MR. MAROIS: Yes. It's the same basic calculation, the same
22 theory, the same approach. It's just one is how much
23 generation did you use to show the in-province load, and
24 that's what we are looking at here because the vesting

2 price is set to show the in-province load, and then you are
3 adjusting that vesting price based on actual hydro.

4 But the other one, the top of -- I forget the term -- top of
5 dispatch is really all generation. So it includes both
6 in-province and export.

7 MR. NELSON: Also I just want -- with the estimated billing
8 procedures that you have put in place, and I was reading
9 an article in the Times & Transcript last Saturday, and it
10 said that you had over a thousand phone calls, complaints
11 about the estimated billing.

12 MR. MAROIS: That sounds right, yes.

13 MR. NELSON: Have you looked at if there has been any costs
14 incurred because of the estimating going to your
15 customers? Have you looked at any, you know,
16 compensation, credits, or something like that, whether
17 it's because of late payments or interest charged on
18 overdue accounts because of the -- we will say maybe the
19 problems you had with the estimates?

20 MR. MAROIS: No, because for different reasons. I mean if
21 somebody called with a genuine concern we were willing and
22 able to adjust the estimate right then and there. That's
23 one reason. The other reason is it gets corrected the
24 following month once you do the actual reading. The other
25 thing is the -- what we supplied to you this morning, the

2 additional undertaking -- the additional undertaking shows
3 that really the estimate is neutral. So in other words
4 there are going to be as many estimates that are going to
5 be under-stated that are over-stated. So at the end of
6 the day -- and that's unfortunately the reality of
7 estimating. You cannot get it perfect. So some customers
8 will have maybe an estimate that is somewhat high and
9 other customers will get an estimate that is somewhat low.

10 But I mean it's kind of something you have to accept.
11 That being said this is a pilot and we are learning from
12 this pilot and we have already identified certain things
13 we can do better. For example, we will be able to take
14 into account weather, actual weather. We are looking at
15 modifying the system as we speak. So we believe we can
16 get it more accurate. But there is always going to be
17 discrepancies for things that are totally outside of our
18 control.

19 MR. NELSON: Well what if there was some hardship, you know,
20 a hardship situation where people were overcharged, you
21 know, late payments, interest or anything else? I mean is
22 anybody --

23 MR. MAROIS: We always take that into account. I mean each
24 time there is somebody that raises a case of hardship we
25 look at the case in a very humanistic fashion. So if

2 there is certain things we can do to assist the customers, we
3 do.

4 MR. NELSON: So you have no program in place then to we will
5 call it make amends for any issues --

6 MR. MAROIS: It's on a case by case.

7 MR. NELSON: So basically it's based case by case, if
8 anybody comes in or calls in and complains or issues a
9 complaint --

10 MR. MAROIS: Yes. We would look at the case and if it
11 warrants an adjustment we will do it.

12 MR. NELSON: Okay. Thank you.

13 DR. SOLLOWS: Thank you. I would just like to follow up on
14 Vice-Chairman Nelson's point -- or points. First with
15 respect to the trial program that you are -- basically you
16 have run an experimental billing program. Did you ask the
17 customers if they wanted to participate? Was it
18 voluntary?

19 MR. MAROIS: No.

20 DR. SOLLOWS: So these customers were really dragooned or
21 co-opted or really had no option but to participate in
22 this program that you have on the record said was
23 experimental and a trial basis. So they have been not
24 only not compensated for being guinea pigs, they have been
25 in some sense penalized by the problems that have arisen

2 with the algorithm?

3 MR. MAROIS: Well all customers are being compensated

4 because as I mentioned I believe during this process --

5 the reason we are doing this is to try to curb our costs.

6 And if we were to stop this program tomorrow we would

7 have to hire about 12 new meter readers, because I think I

8 mentioned that because of our staff reduction we

9 effectively reduced the number of meter readers by 12.

10 And we saw that as an opportunity to try to keep those

11 costs down and the only way we could do that in this point

12 in time was to introduce meter estimating, because with

13 that amount of people we cannot continue.

14 So customers are benefiting because if we do stop this we

15 are going to have to introduce new costs. Naturally we

16 want to make it as good as possible.

17 And the other thing too and it might not be much of a

18 consolation, but I believe we still have to look at it

19 that way, is it is interim in nature because we believe

20 that within a certain number of years we will have

21 automated meter reading. I mean, that's going to be -- I

22 thing it is definite, the issue is when. But currently as

23 we speak for example we do have other means that we are

24 implementing to try to minimize the impact of such

25 initiatives. For example this year we are adding a unit

2 in Fredericton to do drive-by meter reading, remote frequency
3 meter readings.

4 So we are trying to read as many meters as we can with
5 different technology, but it's really a balancing act in
6 terms of cost benefits. But we are really caught between
7 a rock and a hard place right now because again we are --
8 the staff reduction, but we are trying to make the best of
9 it. And we really take seriously the comments we got from
10 our customers and we are acting on it.

11 DR. SOLLOWS: Okay. When I looked in reference to this,
12 exhibit 157, this is the information about the algorithm
13 and your statistical rationale for it. Taking a quick
14 look at it, and of course I have just had it for a few
15 minutes, and if I understand it correctly it didn't -- you
16 developed an algorithm that didn't use the actual weather,
17 it simply assumed that the weather would be the long run
18 normal, is that correct?

19 MR. MAROIS: Not really. It's not -- and this could get
20 quite technical but in simplistic matter the way the
21 estimating was done is it was based on the previous
22 months.

23 DR. SOLLOWS: I see.

24 MR. MAROIS: So being based on the previous month it did
25 take into account recent weather and that previous month's

2 actual reading was simply adjusted to bring it back into a
3 more current estimate based on the time of year. In
4 simplistic terms that's what we were doing.

5 DR. SOLLOWS: I guess my problem with that is all the energy
6 estimating algorithms that I'm familiar with for companies
7 like yours and other energy service companies, would use
8 the actual weather for the billing period and feed that
9 into -- the company that fills my oil tank gets the
10 reports of the degree days through -- each day, each week,
11 each month, and determines when they send the truck to my
12 tank. They don't just take the estimate that I will use
13 the same as I might use in the long run and send the truck
14 on that basis.

15 But that seems to be what you have done in terms of
16 sending your bills to the customers.

17 MR. MAROIS: Well we did talk to other utilities. We didn't
18 talk to oil companies but talked to other utilities, and
19 then it's not -- it's not every utility that has -- takes
20 into account actual weather. So there seems to be
21 different approaches.

22 But through our research and our discussion with SAP, our
23 billing engine, we have determined a way to factor in
24 actual weather. And to be honest -- I mean, I think what
25 exacerbated the situation was January. January was I

2 think the mildest on record.

3 So what we did is the January estimate was based on
4 December which was normal weather and that created
5 overestimates unfortunately. But now by introducing a
6 weather adjustment we should get rid of those. It doesn't
7 mean we still have -- we will still have -- I believe our
8 approach will be quite accurate on a class basis but then
9 you are going to have certain cases that are going to be
10 either over or under estimated for different reasons.

11 DR. SOLLINGS: Okay. I will leave that there and follow up
12 on Commissioner Nelson's other point with respect to top
13 of in-province versus top of dispatch.

14 And as you said it it occurred to me that one of the
15 consequences of the change from moving of the top of in-
16 province dispatch to the top of export dispatch or vice
17 versa, is the way -- in effect the net compensation to
18 Disco for I think the related issue of scheduling the
19 natural gas plants out of merit, in that by scheduling the
20 natural gas plants out of merit you have freed up capacity
21 -- more economic capacity than would normally be scheduled
22 in-province, you have freed it up to compete in a price
23 sensitive export market and therefore increased your
24 exports.

25 And to the extent that excess hydro flows caused the

2 same thing, I'm wondering if calculating it based on top of
3 dispatch isn't in effect really fairer under the vesting
4 agreements?

5 MR. MAROIS: Well I'm not totally certain I got your point
6 because you are mixing the two -- the hydro and the -- but
7 I'm convinced that doing it in-province is the right
8 thing. Because again when you set the vesting price at
9 the beginning of the year, you set it based on in-province
10 load, because the vesting price is the price to serve your
11 in-province customers. That vesting price set at the
12 beginning of the year assumes average hydro.

13 The only thing you are doing is saying, okay, what would
14 have been that vesting price if the hydro would have been
15 at the level we now know, the actual.

16 So you do the exact same calculation after the fact,
17 factoring in actual hydro. So you are comparing apples
18 and apples. You are just saying one was with average
19 hydro, one is with actual hydro, and the difference is X
20 and that's your hydro adjustment.

21 So for me it's quite obvious that it's the right thing to
22 do. If you use top of dispatch you are factoring in volume
23 or generation that was not factored in to the setting of
24 the vesting price initially. So now you are comparing
25 apples and oranges.

2 And to boot, since this Disco shares in any variances due
3 to export margin, then that's where there is the double
4 counting. And that's why I said yesterday if we have an
5 incorrect way of calculating the hydro adjustment we would
6 have to develop an incorrect way of calculating the export
7 margin calculation because then -- you would almost have
8 to try to get two wrongs to make a right, which is not the
9 right way to do it.

10 DR. SOLLOWS: I understand. The thing that's troubling me
11 as someone who, you know, often does marking correct and
12 incorrect is not black and white, it's often a judgment
13 call. And while you might conclude that certain things
14 are incorrect, I might conclude otherwise. And so that --

15 MR. MAROIS: That's why --

16 DR. SOLLOWS: -- that's why I'm not sure that it is as clear
17 as you indicate, but I can leave it.

18 MR. MAROIS: But to get to the bottom of it though we did
19 indicate in our response that we will get a third party to
20 review it. So that will be really clear at the end of the
21 day.

22 DR. SOLLOWS: Thank you. I do want to go on to a matter
23 arising from question -- or it was a question in response
24 to an undertaking provision. And I was musing over it
25 last night and I want to make sure that the facts are

2 clear in my mind relating to interruptible sales and surplus
3 sales.

4 Now as I understand it your interruptible sales are used
5 essentially as a standby for combined heat and power
6 producers, co-generators, that sort of thing and for all
7 intents and purposes a equivalent of a standby rate, and
8 until you develop a formal standby rate are really
9 probably necessary, is that fair?

10 MR. MAROIS: Yes.

11 DR. SOLLOWS: Okay. But distinct from interruptible the
12 surplus sales are more of an option for customers willing
13 to take a risk on non-firm service, is that --

14 MR. MAROIS: That's fair.

15 DR. SOLLOWS: Okay. Now the capacity that serves that non-
16 firm service is currently paid for by Disco's firm
17 customers through the vesting PPA, isn't it?

18 MR. LARLEE: Well, at the time of peak there is really no
19 capacity required to serve that load. Because they can be
20 interrupted. At other times of the year it's served --

21 DR. SOLLOWS: But somebody paid for the capacity?

22 MR. LARLEE: -- it's served from the capacity that Genco has
23 --

24 DR. SOLLOWS: So when it is served it is served through by
25 capacity that is being paid for by Disco's customers?

2 MR. LARLEE: Yes. That's correct. And those are the same
3 customers that are benefiting from the fact that it's
4 interruptible.

5 DR. SOLLOWS: We are talking surplus not interruptible?

6 MR. LARLEE: Small i interruptible.

7 DR. SOLLOWS: Okay. Yes. Can you go on to explain how
8 Disco's firm service customers are benefiting from the
9 fact that it is small i interruptible?

10 I haven't seen any real evidence of that. Maybe I have
11 missed it.

12 MR. LARLEE: Well, conceptually there is that piece of load
13 that Disco doesn't have to have firm capacity reserve for
14 or firm capacity to serve.

15 DR. SOLLOWS: But Disco does?

16 MR. LARLEE: That lowers -- that should lower Disco's costs
17 overall. And that benefits all customers.

18 DR. SOLLOWS: I understand the concept. But I haven't seen
19 any analysis to support that it actually carries through
20 in fact. Is that in the evidence record?

21 MR. LARLEE: I don't believe it's in the analysis, no.

22 DR. SOLLOWS: Thank you. Now I also understand that there
23 is some concern that the surplus customers -- and I'm
24 talking about surplus, not big I interruptible -- surplus
25 customers may want to become firm customers at the time of

2 the Point Lepreau outage. Is that right? And is that a
3 concern for you?

4 MR. MAROIS: Well, it's a concern if the pricing of the
5 surplus product gets out of line with the firm rate.

6 DR. SOLLOWS: Right.

7 MR. MAROIS: That's a reality that --

8 DR. SOLLOWS: And it is out of line with the firm rate now?

9 MR. MAROIS: No, not right now. But it could get out of
10 line during the refurbishment.

11 DR. SOLLOWS: Okay. So you are saying that the firm rate
12 and the non-firm rate are the same now? What do you mean
13 by out of line?

14 MR. MAROIS: Well, if during refurbishment the interruptible
15 -- or the surplus rate gets more expensive for example
16 than the firm, then what is the benefit of -- well, first
17 of all there would be a benefit to go to the firm rate.
18 First of all you get firm service. But also you get a
19 lower price. So that is what I mean.

20 If the interruptible or surplus rate gets more expensive
21 than the firm or gets close to the point where there is no
22 benefit of staying on it, then I'm certain that customers
23 will look at -- it's going to be a business decision on
24 the customer's part to say well, should I stay on that
25 rate versus going to the other one?

2 DR. SOLLOWS: Right. And I think if I were the business
3 owner and I could buy firm service, the energy more
4 cheaply, it is what we would call a no-brainer?

5 MR. MAROIS: Sounds like one.

6 DR. SOLLOWS: Okay. Now -- and from Disco's perspective,
7 when they go onto firm service, you are actually getting
8 someone that contributes now through the rate to pay the
9 capacity costs that you are paying for under the vesting
10 agreement?

11 MR. MAROIS: Yes. But we are advancing the time that we
12 will need new capacity. And especially during the Lepreau
13 refurbishment we anticipate capacity shortfall. So that's
14 why we have to run the numbers.

15 We have to do an analysis to say what happens. If your
16 firm customer -- if your surplus customer converts to
17 firm, yes, you may be getting some contribution. But then
18 all of a sudden you may need to buy new capacity. Because
19 you already had a capacity shortfall.

20 DR. SOLLOWS: But you have indicated that they are probably
21 going to want to convert to firm anyway because it is a
22 no-brainer?

23 MR. MAROIS: No, no. Unless we do something about it. And
24 that's what I mentioned --

25 DR. SOLLOWS: What could you do about it?

2 MR. MAROIS: Well, we have to look at the pricing options.

3 What I believe I mentioned yesterday is we are doing an
4 analysis right now. And we are trying to model what could
5 be the surplus rate during the refurbishment compared to
6 the firm rate.

7 And we will look at the pros and cons of making
8 adjustments. And if we do determine that we should modify
9 any of these rates, then we would come back to the
10 regulator, the PUB and ask for changes in rates.

11 But that's the first thing we need to do. We need to
12 understand where both of these rates will go during the
13 outage.

14 DR. SOLLOWS: Well, perhaps. But I'm just left musing and
15 wondering. I mean, as I understand this evidence -- and
16 it seems that you have been offering this surplus rate for
17 some time but don't have any formal economic justification
18 for it other than it seems like it is a reasonable thing
19 to do.

20 I'm wondering if Disco and Disco's customers wouldn't be
21 better off just by having you wind up the surplus rate
22 category as quickly as possible so to give those customers
23 a choice in advance of the outage at Point Lepreau to
24 determine whether or not they want to sign secure long-
25 term contracts in the wholesale market, which seems to be

2 the legislative and White Paper intent for these kinds of
3 customers or to take firm service from you which would
4 benefit both Disco and Disco's customers by having them
5 share in the cost -- recovering the costs of the capital
6 plant that's used to provide their service.

7 So I'm wondering -- left wondering why we -- what evidence
8 points to not doing that? It seems almost that conclusion
9 is almost inescapable to me. And I want to make sure the
10 facts are clear so that we can hear a good clear argument
11 from counsel at the end.

12 MR. MAROIS: Well, I think the problem is the evidence you
13 have in front of you is for 06/07. And what we are
14 talking about here is for post 06/07.

15 So I mean, it's obvious from our rate proposal that we had
16 not anticipated getting rid of the surplus rates for
17 06/07. And we are proposing to continue those rates. And
18 those rates are -- the surplus rate is making a
19 contribution to fixed costs.

20 I believe we indicated that with a \$2 million correction
21 it's making about a \$1.4 million contribution. So there
22 is some contribution to fixed costs, fixed generation
23 costs.

24 But I think it would be premature to determine if we want
25 to abandon that rate or not. Because again it might

2 be detrimental to Disco's customers overall. Because we know
3 we are going to have a capacity shortfall during the
4 Lepreau outage.

5 If we make the decision now that we should no longer offer
6 surplus products then we have just made a decision to
7 increase that capacity shortfall by a couple of hundred
8 megawatts.

9 And we are going to have to make a decision -- we should
10 analyze that first to see what is the cost of getting that
11 replacement capacity? Is that something we want to do?

12 And I don't know. We are doing that analysis as we speak.

13 DR. SOLLOWS: I guess I will close off by simply saying I
14 think you should have analyzed this a long time ago. But

15 I want to carry on with my prepared questions now.

16 And so I just want to make sure that my understanding of
17 the facts are clear. And we will let counsel deal with it
18 in argument.

19 So I would like to go on to my prepared questions. And I
20 want to -- I have a fairly long series of questions here.

21 But I want to talk about residential rate design.

22 Now I understand that Disco's corporate policy goal with
23 respect to residential rates is to move from the current
24 declining block rate to a flat rate and thereafter

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2 to an inclining block rate.

3 The rate proposal that is currently before us increases
4 the block size from 1300 kilowatt-hours per month to 1400
5 kilowatt-hours per month.

6 And the question I have is am I right to infer that the
7 size of the first block of the inclining block rate that
8 you ultimately envision is equal to a larger than 1400
9 kilowatt-hours?

10 MR. LARLEE: Can I ask you to repeat the question?

11 DR. SOLLOWS: You have been told by your Board of Directors
12 to move towards an inclining block rate, first flat then
13 inclining. And in this proposal you have moved your block
14 size from 1300 kilowatt-hours per month to 1400 kilowatt-
15 hours per month.

16 I infer from that that your ultimate goal for the block
17 sizing and inclining block rate is greater than 1300
18 kilowatt-hours. Am I right?

19 MR. LARLEE: No. I wouldn't think that that inference would
20 be correct.

21 DR. SOLLOWS: Okay. That is fine.

22 MR. LARLEE: One of the reasons that we went in the cost
23 allocation study to split out electric heat and non-
24 electric heat was that so when we get to a point in time
25 where we might consider an inclining block rate that we

2 would have that analysis available to us to look at what the
3 best break point would be for any inclining block.

4 DR. SOLLOWS: Okay.

5 MR. LARLEE: Because once you go to a flat block then really
6 you can put your inclining block anywhere.

7 DR. SOLLOWS: Right.

8 MR. LARLEE: The customers are paying the same price for all
9 energy, so --

10 DR. SOLLOWS: So you say when you get to that point in time.

11 If I recall, your Board's instruction was to develop a
12 flat block by 2007. And this is setting a rate that is at
13 least partially into 2007 year.

14 So aren't we at that point in time? No. It was inclining
15 by 2010. Or no, that was a ratio of 1 for 2010.

16 MR. MAROIS: Yes. Well, I think like I mentioned before, I
17 believe the Board's directive is somewhat work in progress
18 especially following the ruling of the Board.

19 I mean, the ruling of the Board made it clear that we
20 should eliminate the declining block rate within five
21 years. And so once that's done then definitely it's going
22 to create opportunity to look at introducing an increase
23 in block rate.

24 DR. SOLLOWS: So I guess my next question is what is the
25 target for the first block size when you get to the

2 inclining block rate, given that you must have worked on it,
3 because your Board directed you to be flat by the coming
4 year or at latest the year after and inclining a few years
5 later. I'm wondering where you think the first block
6 size, the target would be?

7 MR. LARLEE: Yes. I mean, I have done some preliminary
8 analysis on what it would look like and where the rates
9 might go.

10 And my thinking at this point is that somewhere around
11 sort of the baseload usage level, the average baseload
12 usage level for residential customer, which is between 8'
13 and 900 kilowatt-hours a month, would be reasonable.

14 DR. SOLLOWS: Thank you. That is interesting. Because it
15 is about the same number that I came to when I thought
16 about it. That will make what proceeds fairly easy.
17 Because what proceeds from here works from a first block
18 size assumption of 800 kilowatt-hours.

19 So the prelude to this question may be a little long. And
20 you may want to take some notes of the numbers as we work
21 through it.

22 But the evidence seems to indicate that Disco's ultimate
23 goal is to adopt an inclining rate block structure. I
24 haven't heard much opposition to that as an ultimate goal
25 from any of the Intervenors as long as

2 issues like equity and rate shock are dealt with
3 appropriately. Is that a fair characterization of the
4 evidence?

5 MR. MAROIS: Well, just one thought that came to my mind
6 when you were saying that is I guess the other thing that
7 preempt introducing a declining block rate is a seasonal
8 rate. I mean, the Board has asked us to introduce -- to
9 make a proposal in the next rate application I believe.
10 Well, I mean, my personal view is if you have a flat block
11 and then you get seasonality, it's either that or an
12 inclining block rate if not both.

13 DR. SOLLOWS: And I understand the Board's order. And if
14 you recall, there was a different opinion expressed at the
15 time of that order.

16 MR. MAROIS: But I guess what I'm saying is if we do
17 introduce seasonal rate then I think it takes away the
18 need to introduce an inclining block rate. It's one or
19 the other.

20 DR. SOLLOWS: I guess to just follow up on that point before
21 I go to my prepared questioning, I think the concern that
22 I would have with a seasonal rate, based on my
23 understanding of the data that you filed is that it would
24 be very difficult for you to develop a fair and equitable
25 seasonal rate with the current customer classifications

2 that you have.

3 Because many of your industrial customers are in fact
4 seasonal in nature and exhibit seasonal behavior that is
5 indistinguishable from residential customers. And so that
6 is why I think that maybe we might disagree.

7 But I want to carry on with my own line of questioning if
8 that is okay.

9 I find it useful to separate the issues of rate design and
10 revenue requirement so that I come to a clearer
11 understanding of the issues. So I wanted to examine the
12 impact of restructuring your residential rate on a
13 revenue-neutral basis.

14 I took the 2005 invoice -- year invoice records for the
15 residential classes from the data you filed and calculated
16 the revenue generated by applying your July 7th 2005
17 rates. And I didn't make any adjustment for weather or
18 anything else, just tried to get a rough estimate here.

19 When I did that I generated a base revenue of 451 million
20 for the residential classes. And that was split equally
21 between urban and residential customers at 49 percent
22 each, and had seasonal customers providing the remaining 2
23 percent of revenue. Does that sound like a reasonable
24 outcome?

25 MR. LARLEE: Yes, it does.

2 DR. SOLLOWS: Okay. The split between rate features
3 indicated that 15 percent of your revenue under the
4 current rates came from the monthly service charge, 59
5 percent came from the first energy block and the remaining
6 26 percent came from the second or the runout block of
7 energy.

8 Is that sounding like -- I was looking for a check here.
9 These are the numbers that I got. And I just want to be
10 sure that they are somewhere in the right ball park?

11 MR. LARLEE: Yes. I'm just looking at what we call our rate
12 calculations in response to IR EGNB-11, IR-11 that we
13 filed on February the 9th. And yes, those numbers are
14 correct.

15 DR. SOLLOWS: Sounds good. Thank you. So -- now taking the
16 451 million as a revenue target, I -- to try -- just as
17 you have indicated there are an infinite set of rates that
18 you could come up with to satisfy your requirements, so I
19 picked another one as a test. And I took the 451 million
20 as the revenue target, I set a monthly service charge at
21 \$23 for all three residential classes, because I didn't
22 really see anything in the cost allocation study that
23 would allow me to differentiate.

24 I put the first block size at 800 kilowatt hours per month
25 based on my own review of the consumption data by

2 knowledge that the block size would result in most of your
3 customers being exposed to the second block price for
4 their marginal winter consumption, which is I think what
5 you had in mind when you said the base consumption was
6 around 800, and it also -- it -- sort of in my mind was
7 the notion that it represented a reasonable upper ground
8 for monthly consumption of a residential customer that
9 uses electricity for other than space heating. And that's
10 from my own bill. I have a few electric baseboards but
11 I'm largely in an old farmhouse that's nominally heated by
12 oil but largely unheated, and I use 5' to 600 kilowatt
13 hours in the -- 700 in the summer months and 1100, 1200 in
14 the winter time. So that's how I arrived at the 800.
15 When I -- having done that, I looked at the extra revenue
16 that I got from increasing all of the monthly service
17 charges to \$23 and I took that increment of revenue and
18 reduced the first block rate from 8.37 cents to 7.71 cents
19 to compensate for that increased revenue.
20 I simply said, well normally, I would anticipate that the
21 first block rate would be higher because it's making up
22 for any shortfall in the cost recovery from a lower than
23 necessary service charge, so having put the service charge
24 to cover 100 percent of its estimated cost I reduced the
25 first rate down to 7.71 cents per kilowatt

2 hour.

3 Then I simply calculated the second block or the run out
4 rate so that the \$451 million would be generated. And I
5 arrived at 7.21 cents per kilowatt hour.

6 When I checked the results I got the same revenue split
7 between classes. I got 49 percent from urban, 49 percent
8 from rural and two percent from seasonal customers. And
9 the split between rate features showed a little more
10 revenue coming from the service charge, 18 percent versus
11 15 percent under the current rate.

12 First block revenue fell substantially. It fell from 59
13 percent down to 40 percent of total revenue. And the
14 second block revenue increased from 26 percent to 42
15 percent.

16 Now I would like you to leave aside the Board's December
17 order which I understand prohibited you from doing what I
18 have done, and I understand that, and leave aside for now
19 the need to increase revenue and rate shock because we are
20 going to deal with that a little later. And just answer
21 the next question. Subject to checking my arithmetic, do
22 you agree that this prototype rate design would be a
23 reasonable option for Disco?

24 MR. LARLEE: It's not unreasonable given that you have asked
25 me to leave aside considerations, the Board's ruling and

2 rate shock and --

3 DR. SOLLOWS: Yes.

4 MR. LARLEE: -- revenue requirement.

5 DR. SOLLOWS: Okay. And as I say there is nothing you can
6 do about the Board's ruling.

7 MR. LARLEE: I guess the only comment I would have, because
8 I do try to keep familiar with what other utilities are
9 doing in their residential rates, is that the service --
10 this would be among the highest service charges in the
11 country.

12 DR. SOLLOWS: That's absolutely clear, and I understand
13 that. But I do want to --

14 CHAIRMAN: We will take our break.

15 (Recess - 10:15 a.m. - 10:35 a.m.)

16 CHAIRMAN: Any preliminary matters?

17 MR. MORRISON: No, Mr. Chair.

18 CHAIRMAN: Panel, I want to reassure you, as Commissioner
19 Sollows has reassured me, that he is not putting this
20 example in front of you to write a new dissenting opinion,
21 but rather doing something that the Panel supports which
22 is to try and get the best ideas out on the table and that
23 you folks consider them and give us your opinion.

24 Go ahead, Commissioner.

25 DR. SOLLOWS: Thank you, Mr. Chair. Now I would like to

2 turn your attention to the impact of this prototype rate on
3 the customers. To examine that I calculated the dollar
4 amount by which each customer's annual electricity cost
5 would change. And I rounded that dollar amount to the
6 nearest \$10.

7 I did that so that I would have in a statistical sense I
8 would call a bin variable, and I got 206 different bin
9 variables in that way, ranging from negative to positive.

10 And the distribution was interesting to me and I want you
11 to comment on some summaries -- as I summarize it here.

12 And of course all your comments subject to checking,
13 because this is the results of a calculation going through
14 -- I don't know -- 300,000 customers times 12 invoices or
15 something like that.

16 When I looked at that distribution I found there were
17 basic groups under the new -- or the prototype rate.

18 There was one group that I would probably call the winners
19 and they totalled about 44 percent of all the customers.

20 They would see their annual cost of electricity decrease
21 by an average of \$29 per year.

22 I found a group that I will call the losers. They were
23 about 40 percent of customers. They experienced an annual
24 cost increase of about \$34 per year. And that's average
25 for the whole group.

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2 And the remaining 16 percent of customers who we would
3 call -- I might call the indifferent. Probably they are
4 indifferent to the two rates. Their costs would change by
5 less than \$5 either way.

6 What I am wondering is would you agree with me that the
7 only customers that experienced cost increases, which I
8 have called -- the 40 percent of customers that are going
9 to see an increase in costs -- they would be the ones that
10 are at risk of what we would call rate shock? Is that
11 fair?

12 MR. LARLEE: Yes. I think I would agree with that. Just
13 sort of looking at the rate and the way it is laid out,
14 you really have two customers that are going to see
15 significant increases.

16 You have got the very, very low-consuming customers
17 because you have increased the service charge by \$6 for
18 your urban customers. And then you have got the very
19 large customers.

20 DR. SOLLOWS: Right.

21 MR. LARLEE: So sort of at both ends of the spectrum. And
22 the very large customers, just rough calculations, would
23 be in the order of 9, 9 1/2 percent.

24 DR. SOLLOWS: Yes. Okay.

25 MR. LARLEE: So you have a got a revenue-neutral adjustment

2 with some customers seeing almost a 10 percent increase. I
3 would say that you are approaching rate shock.

4 DR. SOLLOWS: Okay. So you think that a 10 percent increase
5 does -- that this proposal would be rate shock?

6 MR. LARLEE: Well, keeping in mind sort of the criteria that
7 Mr. Marois laid out yesterday, where your overall rate
8 increase is zero. And then you have got some customers
9 with 10 percent.

10 I think that's quite an extreme -- quite an extreme
11 impact. You are telling customers well, we are not going
12 to change your rates, but you may see 10 percent. I think
13 that could qualify as rate shock.

14 DR. SOLLOWS: Okay. I think we probably have a very
15 different definition of rate shock. But we will carry on.
16 And I think you have sort of come to the point -- my next
17 question was the urban customer with no energy use at all
18 sees a fairly large percentage rate increase. I found it
19 is \$5.26 per month or just under a 30 percent rise in
20 their bill. Does that sound right?

21 MR. LARLEE: Yes.

22 DR. SOLLOWS: Now I know that you have your view of what
23 rate shock is. But I'm still struggling with the issue.
24 And I'm struggling with the notion of whether that 30
25 percent rise is or is not rate shock.

2 Certainly on one hand it represents a 30 percent increase
3 in the customer's cost for service. But on the other hand
4 the customer used no energy. It derived no -- he derived
5 or she derived no energy utility from the service. And
6 the service actually cost 30 percent more than they paid
7 under the old rate.

8 And on top of all of that, 30 percent rise is still only
9 \$63 per year for that customer.

10 So you have commented already that you think for the big
11 customer it would be rate shock. Do you think that it
12 would be rate shock for the small customer, that \$63 per
13 year?

14 MR. MAROIS: You probably appreciate that we are going to be
15 very cautious and qualify anything as rate shock or not
16 rate shock. I mean, that's why judgment comes into play.

17 I mean, you have to apply judgment in terms of the
18 circumstances.

19 And I guess where I'm struggling a little bit is you seem
20 -- if I understand your argument, is that you are
21 factoring load percentage increase and then absolute
22 increase.

23 DR. SOLLOWS: Pardon me?

24 MR. MAROIS: What I understand you saying is when you look
25 at the customers with little or no consumption, that the

2 absolute increase or dollar value increase is relatively
3 small.

4 DR. SOLLOWS: Right.

5 MR. MAROIS: And you mentioned 60' --

6 DR. SOLLOWS: \$63.

7 MR. MAROIS: Yes.

8 DR. SOLLOWS: That is 30 percent rise. But it is \$63.

9 MR. MAROIS: I mean, if your criteria is absolute numbers --
10 maybe it is not. Maybe it is depending if you are looking
11 at a small apartment for a low-income person. It could be
12 significant or it could not be. So I guess it almost
13 depends on your criteria.

14 But from a percentage increase it would raise eyebrows.
15 And I mean, that's something we would take into account
16 considering the circumstances at hand.

17 DR. SOLLOWS: Okay. As an example of those circumstances,
18 perhaps the situation for Vice-Chair Nelson who -- I think
19 he mentioned in passing that he used a few hundred
20 kilowatt-hours a year at his cottage or his trailer at his
21 vacation lot. He would be facing quite a substantial cost
22 increase for that. He would be pushing the 25 or 30
23 percent range.

24 Is that in your judgment something that we would want to
25 mitigate through some extraordinary measure? Or do you

2 think he should pay the full cost of service?

3 MR. MAROIS: That's a tough question. I mean, typically

4 there would not be programs for a situation like that.

5 Because I just got my tax bill for my cottage. And I

6 don't like it at all. But I don't think I'm going to get

7 any assistance, so --

8 DR. SOLLOWS: And so really when we come to mitigating rate

9 shock I guess we are probably on the same wavelength here,

10 is that we can't just look at the percentage rise.

11 We have to look at the absolute amount, the affordability

12 and a number of other factors, sort of the utility of the

13 supply to the customer?

14 MR. MAROIS: Yes. And I mean -- and when we talk about

15 circumstances, I mean, the theoretical exercise we are

16 going through right now is a revenue-neutral adjustment.

17 But usually when you look at rate increase, it's not in a

18 revenue-neutral circumstance. So that --

19 DR. SOLLOWS: We are going to get there, yes. Thank you.

20 So at the other end of the spectrum I found a residential

21 customer with an annual electricity bill totaling \$338,000

22 under the old or existing rate. That customer would

23 experience a rise to 368,000. And that is about 8.7

24 percent.

25 Now if I understand you correctly, 8.7 percent rise

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2 for that customer is rate shock. But a 10 percent rise for
3 everybody is not rate shock.

4 Is that -- am I interpreting your interpretation -- have I
5 got your interpretation of rate shock correct?

6 MR. MAROIS: I don't want to contradict Mr. Larlee. But I
7 guess that's my -- I would stay away from qualifying
8 anything as rate shock or not rate shock.

9 I believe yesterday my discussion with the Chairman was
10 that when I personally look at gradualism or concern about
11 rate impact it's really versus the average increase. I
12 mean, if the average increase is legitimate, because you
13 have to recover your cost, that is an increase you have to
14 live with.

15 DR. SOLLOWS: But in this case there is no average increase.

16 It is rebalancing the rate to achieve an objective that
17 was set by your Board as part of your policy?

18 MR. MAROIS: Exactly. So that's when -- in that case, I
19 mean -- and I believe that's what Mr. Larlee was getting
20 at is 8, 9 percent, 10 percent increase, when you have a
21 zero increase really overall, because it's a revenue-
22 neutral adjustment, it raises questions. Is it rate shock
23 or not?

24 But it's a significant increase for an adjustment that is
25 overall revenue-neutral. Because I believe that -- and

2 these comments were not made by us, but they are part of
3 evidence on the record, that some people seem to define
4 gradualism or acceptable gradualism or acceptable impact
5 as increases that are within 1.5 times to 2 times the
6 average increase.

7 DR. SOLLOWS: Yes.

8 MR. MAROIS: And so I guess what makes it difficult in a
9 revenue-neutral situation is your average increase is
10 zero. So 2 times that is --

11 DR. SOLLOWS: Right. So that is the problem with the
12 formula, isn't it?

13 MR. MAROIS: That's a problem, yes.

14 DR. SOLLOWS: Okay. So we agree that it is debatable. And
15 it is really subject to judgment.

16 MR. MAROIS: I agree with that.

17 DR. SOLLOWS: Yes. And finally when I looked at the
18 customers that were grouped by their change in annual
19 costs rounded to the nearest 10, I found that the
20 customers paying an extra \$40 per year experienced the
21 highest percentage change in their cost.

22 And that amounted to about a 10 percent increase. And
23 again on the formula basis by definition, that is rate
24 shock if you are comparing it to a zero change.

25 But would you agree with me that it -- it may be

2 reasonable to look at this and look at an overall goal of
3 developing a flat or an inclining rate and say that a 10
4 percent increase, since that is really less than the
5 average increase you are asking for, from a customer's
6 perspective the reason you do it is less important than
7 the fact that they will pay 10 percent more.

8 And therefore it might be reasonable to conclude that 10
9 percent increase wouldn't be rate shock?

10 MR. MAROIS: Well, I guess that's where personally I'm
11 struggling. Because I have got difficulty detaching
12 myself from the current situation where we know we have an
13 average increase of --

14 DR. SOLLINGS: I understand.

15 MR. MAROIS: -- over 11 percent. And then if you add to
16 that a 10 percent adjustment, now you are into 20 percent.

17 I mean, if I understand your question is if the change
18 you are trying to make is a right one, and really at the
19 end of the day has merits, and if you were facing a zero
20 overall increase, would 10 percent be acceptable? I would
21 almost have to agree, yes.

22 DR. SOLLINGS: Okay. Thank you. Now I would turn you to a
23 comparison between this prototype rate and the existing
24 one. Now I understand neither rate is designed to deliver
25 the revenue requirement for the test year. But again to

2 keep things clear I want to deal with that a little later.

3 The difference between energy price in the first and
4 second blocks of the current rate is 1.74 cents I think,
5 isn't it?

6 MR. LARLEE: Yes. That's correct.

7 DR. SOLLOWS: In the prototype rate the first block is price
8 at 7.71 cents. And the second block is priced at 7.21
9 cents per kilowatt-hours, the difference being a half a
10 cent a kilowatt-hour.

11 Would you agree with me that the prototype rate would make
12 greater progress towards the goal of eliminating the
13 declining block rate structure than the one you have
14 proposed?

15 MR. LARLEE: Oh, absolutely. The one we have proposed is in
16 compliance with the Board ruling.

17 DR. SOLLOWS: Fair enough. Thank you. Now I want to
18 consider Disco's need for additional revenue for the test
19 year. Assuming that we find there is a need for revenue
20 over and above that which the prototype rate would
21 provide, do you agree that increasing only the second or
22 runout block energy price by up to .5 cents per kilowatt-
23 hour would increase Disco's revenue and close the gap
24 between the first and second block rates?

25 MR. LARLEE: Yes, it would do both those things.

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2 DR. SOLLOWS: And if the second block was increased by more
3 than .5 cents per kilowatt hour, either all at once or in
4 a series of smaller steps -- do you agree that an
5 inclining block rate would result?

6 MR. LARLEE: Yes.

7 DR. SOLLOWS: Okay. Now when I looked at it, the second --
8 or the run out block of the prototype rate contained about
9 2656 gigawatt hours for the 2005 fiscal year. And half a
10 cent a kilowatt hour is \$5,000 per gigawatt hour so my
11 rough calculation is that increasing that run out rate by
12 a half a cent reveal an extra \$13.3 million in revenue for
13 Disco. Subject to check, does that sound about right?

14 MR. LARLEE: Could you repeat the revenue number again?

15 DR. SOLLOWS: 13.3 million. That is 5000 times 2656. And
16 again, of course subject to check that I have done the
17 sums right.

18 MR. LARLEE: Sure. Subject to check that looks about right.

19 DR. SOLLOWS: Now, Mr. Marois, your evidence indicates you
20 proposed to need an extra 59.2 million from residential
21 customers to move your residential customer class from
22 revenue cost ratio of 84 percent to 95 percent. And that
23 is a total of 11 points. Is that right?

24 MR. MAROIS: Yes, that is correct.

25 DR. SOLLOWS: Thank you. So if my arithmetic is correct and

2 assuming that you don't use any of your -- what I am going to
3 call waterfall profits from this year to offset the rate
4 shock -- an extra 2.22 cents per kilowatt hour added to
5 the second block price would meet your revenue target for
6 residential customers. And we are going to talk about
7 rate shock and I certainly understand that this would
8 induce rate shock. But you accept that that number,
9 subject to check, would meet your revenue target? That
10 basically the 56 million divided by 13.3?

11 MR. LARLEE: So just so I have it clear in my own mind, how
12 much energy did you calculate you had in the end block?

13 DR. SOLLOWS: In the end block it turned out to be 2656
14 gigawatt hours. And when I added I did it on the basis of
15 a half cent, the difference between the two rates, I got
16 13.3 million in revenue. And when I divided that into
17 59.2 I got about 2.22 cents. MAYbe I am wrong.

18 MR. LARLEE: I just can't do that much math in my head so --

19 DR. SOLLOWS: I didn't either.

20 MR. LARLEE: Yes, 2.2 cents.

21 DR. SOLLOWS: Thank you. So to summarize, this would leave
22 us with an inclining block rate with a service charge of
23 \$23 per month, a rate of 7.71 cents per kilowatt hour for
24 the first 800 kilowatt hours of monthly consumption and a
25 second rate block or a run out block rate of 9.43 cents

2 per kilowatt hour for energy in excess of 800 kilowatt hours
3 per month. Now do you agree with me, subject to check,
4 that this rate will probably deliver your revenue
5 requirement but will also raise the problem of rate shock
6 for some of your residential customers?

7 MR. LARLEE: Yes.

8 DR. SOLLOWS: Okay. Now just for the purposes of this
9 question leaving the rate shock aside, assuming we can
10 address it in some manner, is this prototype inclining
11 block rate design practical from an implementation
12 perspective for the company?

13 MR. LARLEE: When you say practical, are you referring to
14 would Disco be able to actually bill it?

15 DR. SOLLOWS: Yes. Would you be able to implement this if
16 we could find some way to emoliate the issue of rate shock
17 for those customers that would face real hardship by
18 implementing such a large increase -- as you have seen the
19 big -- after this the big increase would be for large
20 users and they would be very large increases for the
21 largest users. So assuming that we could find some way to
22 deal with that, would this type of design be a reasonable
23 thing or a practical thing for you to implement?

24 MR. LARLEE: Well it would certainly be practical to
25 implement it. I mean, there is no -- there is nothing

2 here that our billing engine couldn't handle. And as far as
3 reasonableness of it, again I go back to this idea is one
4 of the reasons why we did that segmentation cost
5 allocation study is I think we would want to look at sort
6 of directionally where that takes the electric heat and
7 non-electric heat customers from a cost recovery basis
8 just to make sure that we're getting reasonable results
9 there.

10 DR. SOLLOWS: And I understood conceptually the 800 kilowatt
11 hour base does a lot to segregate the two customers so
12 really what this would do would shift revenue collection
13 from smaller customers to higher customers, higher usage
14 customers and those tend to be electric heat customers?

15 MR. LARLEE: That's correct.

16 DR. SOLLOWS: So now rate shock. If we wanted to implement
17 this design, what are the various options available to us
18 to mitigate rate shock. And the understanding that I have
19 is that the largest customer that we are talking about
20 would see a huge increase. I mean, they would be I am
21 guess 30, 40 percent increase, which by anybody's
22 definition is rate shock. But there aren't very many of
23 these really large customers so the cost of dealing with
24 it might not be prohibitive with this particular rate
25 design. Again because the basic rate design started by

2 decreasing half the people's rates by a little bit. So I'm
3 wondering if any of these would be possibilities in terms
4 of -- well, I guess first off what could we do with this
5 rate design to mitigate the rate shock?

6 MR. LARLEE: I think the first thing that you would do to
7 get to this type of rate is you would do it gradually.
8 And the Board's order in eliminating the declining block
9 rate by one-third in this particular rate proposal gets us
10 on that road to getting it obviously.

11 You know, I think you should get to a flat rate before you
12 get to an inclining block rate. And the Board's order
13 certainly gets us a long ways to some type of rate
14 structure similar to this.

15 DR. SOLLOWS: Okay. So basically move to this more
16 gradually would be one way of dealing with it?

17 MR. LARLEE: Yes. That's correct.

18 DR. SOLLOWS: One way of moving to it gradually would be to
19 move more slowly towards a revenue-cost ratio of .95. I'm
20 thinking back to your own Board's order to move to a
21 revenue-cost ratio of 1. But they gave you five years to
22 do it.

23 So I'm wondering if we could perhaps move -- instead of
24 moving from .84 to .95, if -- would it tend to eliminate
25 the rate shock if we moved you from .84 to --

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2 oh, let's say .9?

3 MR. MAROIS: Well, I guess what would have been my opening
4 comments to your question was it's communicating -- I
5 mean, if you try to minimize rate impact to one rate
6 class, with the example you just gave, you have got to
7 look at, okay, who else is going to pay more?

8 DR. SOLLOWS: Right.

9 MR. MAROIS: And that is where you start into the balancing.

10 DR. SOLLOWS: Yes.

11 MR. MAROIS: And that's -- and I think I stressed that our
12 rate proposal tried to do just that, is balance. And I
13 mean, right now we are in a situation where it's tough
14 because of the average increase.
15 The balancing, you don't have that much flexibility. So
16 if you reduce the overall increase to the residential rate
17 class because you are doing rate design changes, another
18 rate class will have to bear --

19 DR. SOLLOWS: I understand.

20 MR. MAROIS: -- the cost.

21 DR. SOLLOWS: But nonetheless the subject of that
22 consideration, moving more slowly towards the target of
23 100 percent, would be one way of addressing issue of rate
24 shock for this class?

25 MR. MAROIS: Yes. But then you are defeating the purpose.

2 Because you are redesigning the rate to have really better
3 pricing.

4 DR. SOLLOWS: Yes.

5 MR. MAROIS: But then you are recovering a smaller amount of
6 cost. So you are getting faster to better rate design.

7 But you are recovering less cost. So which one is better?

8 DR. SOLLOWS: Yes. I guess from a purely -- you know, from
9 a more abstract perspective that I would bring to this
10 would be -- I'm wondering if it isn't better to get the
11 rate design correct because that is the information that
12 you are going to transmit to the customer in the long term
13 to affect their consumption. So if we get that design
14 right you might see sufficient changes in customer
15 behavior that your costs go down. And it might make
16 further progress towards the revenue cost ratio of one, by
17 their adaptation.

18 So that is one of the reasons why I would say I'm looking
19 at the pricing side rather than the revenue cost side.

20 MR. MAROIS: There is always two sides to every coin. And I
21 guess I would potentially argue that -- true, but the
22 pricing though that you have just described, if you are
23 not recovering the right amount of cost, is really an
24 intrarate pricing.

2 But if the overall residential rate class is at least
3 recovering more of their cost, i.e. like at 95 percent, at
4 least the overall pricing of the residential rate class is
5 better. So which one is better?

6 DR. SOLLOWS: Certainly it is a judgment call. And I
7 certainly wouldn't propose leaving the revenue-cost ratio
8 where it is. But we could move more slowly to deal with
9 rate shock.

10 If the customer -- if the shareholder felt that rate shock
11 was an issue, do you suppose a shareholder holding this
12 kind of monopoly should be asked to maybe invest some
13 equity in eliminating or muting rate shock, as long as we
14 are transitioning to a goal that is consistent with their
15 goals?

16 MR. MAROIS: Well, I'm not certain I understand you are
17 talking about -- equity. But my understanding -- and
18 again this is based on publicly available information --
19 is what the government is looking at right now is
20 notwithstanding even doing an adjustment to raise the way
21 you are mentioning it, but just to help offset some of the
22 impact of the rate proposal as proposed by us, is they are
23 looking at their own measures.

24 DR. SOLLOWS: Okay. So we can perhaps have some confidence
25 that even if we adopted a rate like this, the largest

2 customers that were subject -- in the class that were subject
3 to the worst rating cases, they might well be taken care
4 of by government.

5 MR. MAROIS: I don't know if we have some confidence. But
6 it's definitely a possibility.

7 DR. SOLLOWS: Okay. Thank you. Is there any merit to
8 allocating some of the windfall or waterfall revenue that
9 you have got from the high water flows and low and
10 unusually warm winter -- warmest on record I guess
11 according to Meteorological Service of Canada -- is there
12 any merit to taking some of what is essentially a windfall
13 or waterfall profit and using that to mute the rate shock
14 or ameliorate the rate shock for these customers with
15 extreme increases?

16 MR. MAROIS: Well, I think it's a tough question for me to
17 answer. Because I mean, I don't think we have conceded by
18 any means that it would be appropriate to take money from
19 one year to help offset.

20 DR. SOLLOWS: I understand. And I would be reluctant --

21 MR. MAROIS: But in theory, I mean, in theory if that money
22 was to be used to offset rate increase then it creates
23 more flexibility, flexibility we don't have right now.
24 But I mean, a word of caution I want to give right now is
25 even if everybody would agree that the Board has

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2 authority to create variance accounts for hydro for the
3 current fiscal year, and if the conclusion was that the
4 Board is able to create those accounts and is able to take
5 that money to help offset costs, what the Board has just
6 done is implemented a means that we can recover any
7 shortfall from hydro.

8 So next year, if we come back with the exact reverse, we
9 are going to go out to the market and say we need a 10
10 percent rate increase because our water is too low.

11 So what's important here is our costs, our revenue
12 requirement, the rates we are going to set are ongoing.
13 Unless something changes we need those rates every year.
14 Like you mentioned, the additional hydro profit of last
15 year is a one shot deal.

16 DR. SOLLOWS: Yes.

17 MR. MAROIS: So you have to be really careful not to correct
18 a long-term problem with a nonrecurring one-time --

19 DR. SOLLOWS: I agree.

20 MR. MAROIS: So that's why I'm very nervous, but --

21 DR. SOLLOWS: I tend to make people nervous.

22 MR. MAROIS: If you could find money -- the problem we have
23 right now, and usually it's the case when you do rate
24 design or you set rates, is you don't have much
25 flexibility.

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2 I mean, if you had the flexibility of increasing one rate
3 quite a bit more to help address the problem in another
4 rate, then you can have all sorts of flexibility.

5 But in this case in particular we have very small
6 flexibility. So that's why the balancing act is --

7 DR. SOLLOWS: I understand.

8 MR. MAROIS: -- so difficult.

9 DR. SOLLOWS: Okay. I think I would like to just leave that
10 there and go on to another line of questioning if that is
11 okay.

12 I'm going to talk now briefly about small industrial
13 rates. And by now you know that I have spent some time
14 crawling through the database that you provided.

15 And when I examined the billing data for small industrial
16 customers it revealed 22 customers for whom the recorded
17 actual demand was less than zero and the largest of which
18 was about minus 290 kilowatts. And this is again small
19 industrial customers, not the large ones. How does a
20 negative demand arise in the billing data?

21 MR. LARLEE: I don't know. I would have to look at those
22 particular accounts and see what is happening.

23 DR. SOLLOWS: Okay. It just seems like an interesting
24 anomaly to me. Could you undertake to do so?

25 MR. LARLEE: Yes.

2 DR. SOLLOWS: Okay. Thank you. The same examination also
3 revealed 252 customers for whom the load factor was
4 greater than 100 percent, and who had not recorded any
5 purchases of surplus or interruptible energy.
6 My question from that is how do load factors above 100
7 percent arise?

8 MR. LARLEE: Again on those customers I don't have the
9 details but I can look into it.

10 DR. SOLLOWS: I would appreciate that. Thank you. When I
11 eliminated those two groups for purposes of my analysis I
12 then examined the load factors of the remaining, and it
13 sort of grouped into three different groups that comprised
14 about 84 percent of your energy sales. So I think the
15 resulting analysis, even though I have had to eliminate
16 these ones, probably captures most of your -- most of your
17 small industrial rate customers.
18 I found that there were three groups when I grouped them
19 by load factors. I had one group that had a load factor
20 of 19 percent plus or minus nine percent. I had another
21 group that was 36 percent plus or minus 20 percent. And I
22 had a third group that was 41 percent plus or minus 15
23 percent. And just for the sake of completeness there was
24 another group with a seven percent load factor but it used
25 less than two percent energy, so I

2 left it off the consideration.

3 There was also a small group of outliers that consumed
4 less than one percent of the energy and 60 percent load
5 factor. So again really leaving those aside, I want to
6 focus on the main three groups.

7 Have you examined your rate design regarding intra-class
8 equity to ensure that the revenue cost ratios for these
9 three subgroups, which are not unlike subgroups that you
10 found in the residential rate, are the revenue cost ratios
11 for these three main groups within a reasonable range of
12 values, or is there some intra-class subsidy from the high
13 load factor group -- higher load factor group to the lower
14 load factor group?

15 MR. LARLEE: No, I haven't, but I think it's important to
16 note that because this is a two part rate, a demand charge
17 and an energy charge, that customers with lower load
18 factor, in other words have a higher demand relative to
19 their energy consumption, pay a higher cents per kilowatt
20 hour rate.

21 DR. SOLLOWS: I understand that and I guess what I'm looking
22 -- asking and if you haven't done it I'm just wondering if
23 you could do it and report at some future date, not as an
24 undertaking in this hearing -- undertake the analysis to
25 see whether you have struck the right balance in the

2 demand charge and the energy charge in order to eliminate any
3 -- to the degree that you can with the rate structure you
4 have eliminate any subsidy from the high load factor
5 customers to the low load factor customers, or to limit
6 that subsidy to an appropriate value, if you think it
7 should be one?

8 MR. LARLEE: I think I mentioned yesterday that the best way
9 to do that would be to just examine the costs that are
10 coming out of the cost allocation study, and when I say
11 the costs I mean the customer costs, the demand related
12 costs and the energy costs, and compare those to the rate.
13 And then based on that make sure that the rate is in line
14 with those costs.

15 DR. SOLLOWS: So you could do that?

16 MR. LARLEE: I think that's something that could be readily
17 done.

18 DR. SOLLOWS: Thank you. Now prior evidence in the hearing
19 that led me to believe that industrial customers had
20 characteristically high load factors, but these results
21 seem contradictory. The highest load factor group is 41
22 percent, plus or minus 50 percent, that represents 49
23 percent of your sales to the class.
24 Now the difficulty I'm having is 41 percent load factor is
25 somewhat like the load factors we had for

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2 residential, is it not?

3 MR. LARLEE: Yes, it is. But unfortunately I think when we
4 -- a lot of times when we talk about industrial, depending
5 on the context, we are really talking about the large
6 industrial customers, those 40 or so customers that are on
7 the transmission system, and most of them, not all, but
8 most of them do have quite high load factors.

9 DR. SOLLOWS: Okay. So I will accept that. And I did just
10 want to note though that there is a difference between
11 these load factors in that these are monthly load factors,
12 or the average monthly load factors, and under your cost
13 allocation study you are looking at annual load factors.
14 And so I guess you would agree with me that for a given
15 customer their annual load factor -- the upper limit value
16 it could be would be the average of the monthlies, is that
17 right?

18 MR. LARLEE: Yes, that's true.

19 DR. SOLLOWS: So really this is a -- this is -- it's a
20 conservative comparison, but what you have clarified is
21 when you referred to high load factor loads you are really
22 talking about large industrial loads?

23 MR. LARLEE: Yes.

24 DR. SOLLOWS: Thank you. So I can eliminate that. Now I
25 haven't done this calculation and I propose that I will do

2 it, but are you fairly confident that if I just sort of looked
3 at the overall load factor that I found for your small
4 industrial customers and compared it to the number that
5 you have used in your cost allocation study that it would
6 be the same?

7 MR. LARLEE: Well it wouldn't be the same as you pointed out
8 that you are looking at monthly load factors and in the
9 cost allocation study.

10 DR. SOLLOWS: Okay. I will -- what I will do is actually
11 calculate the annual for each customer and average that.
12 Would I get then a number that's comparable to what you
13 have used in your cost allocation study?

14 MR. LARLEE: You should get a comparable number because we
15 based those estimates on our billing analysis which is
16 essentially what you have been doing.

17 DR. SOLLOWS: Perfect. Thank you. Now large industrial
18 rates. When I did the analysis of large industrial rates
19 I also found three groups of customers. I found a group
20 consisting of 26 percent of your customers that together
21 consumed five percent of the class energy and had a load
22 factor of 46 percent. I found 45 percent of your
23 customers consuming little more than half of your energy,
24 54 percent of your energy, with a load factor of exactly
25 the same actually, 54 percent, plus or minus seven.

2 And I found that 26 percent of your customers, or about a
3 quarter of them, consumed 41 percent of the energy, and
4 they had a load factor of 84 percent.

5 Now I guess based on what you said so far you would agree
6 with me that the third group, the one with an 84 percent
7 load factor, represents a high load factor group of
8 customers?

9 MR. LARLEE: That's correct, yes.

10 DR. SOLLOWS: And the small standard deviation, it was 84
11 percent, plus or minus seven percent, that's also
12 something that makes this a collection of pretty good
13 customers, right? It's not only a high load factor, it's
14 a fairly constant load factor?

15 MR. LARLEE: That's the function of their load. It's a
16 constant load. Most of them are continuous process
17 operations running 24/7.

18 DR. SOLLOWS: So they are better customers in this respect
19 than the first group which had a 46 percent load factor
20 and was 26 percent of your customers, about the same
21 percentage of customers but a 46 percent load factor.
22 Those -- that quarter of your customers -- the high load
23 factor group is certainly better than the low load factor
24 group.

25 Again have you examined the rate design to ensure that

2 the large ones with the high load factors aren't subsidizing
3 the ones with the low load factors?

4 MR. LARLEE: And again the rate -- it's a two part rate. So
5 as a result low load factor customers pay a higher cents
6 per kilowatt hour --

7 DR. SOLLOWS: Yes.

8 MR. LARLEE: -- so that there is basically the rate -- a two
9 part rate is designed to track the cost, and the cost is a
10 relation of demand cost and energy cost. So no, I haven't
11 done that.

12 DR. SOLLOWS: Could you put the revenue cost ratios on the
13 record for those three groups?

14 MR. LARLEE: I'm not sure that I would be able to segregate
15 the cost allocation study along the lines that you have
16 described.

17 DR. SOLLOWS: Well I can give you the identity numbers that
18 are on the data base for the group members.

19 MR. LARLEE: I think really -- and what I was proposing
20 before is is that we can look at what the cost allocation
21 study tells us the costs are on a demand basis in dollars
22 per kilowatt, and in energy basis. And we can compare
23 those to what the rate is and that would give us --

24 DR. SOLLOWS: So if I gave you then the average demand and
25 average energy of each of these groups you could do a

2 revenue cost ratio on that basis?

3 MR. LARLEE: Essentially I guess what you are saying is if
4 you had the billing determinates --

5 DR. SOLLOWS: Yes. Which we do.

6 MR. LARLEE: -- then -- but I'm still not clear on what you
7 would be using as a segregating point? I guess what I'm
8 trying to get at is that -- I mean, a two part rate you
9 are already taking into account variations in load factor.
10 So all that's important is that your demand charge and
11 your energy charge actually track cost.

12 So there is no reason then to do a segregation upon load
13 factor because your rate design is already taking that
14 into account.

15 DR. SOLLOWS: And I guess all i'm looking for from the point
16 of view from an auditor is a check and that the check
17 would be since your customers have these different
18 characteristics in their groups, I would want to be sure
19 that these groups are covering their own costs and there
20 is no intra-class subsidy from say the high load factor
21 group to the low, and it would be just a check on the rate
22 design.

23 So I guess that's my reason for asking and I'm wondering
24 if we gave you the numbers you would be able to do it?

2 MR. MORRISON: Excuse me, Mr. Chair. I have no problem with
3 the information request. Mine is more a practical concern
4 in that I don't know how long it is going to take to do
5 whatever it is required to be done, and the record will
6 close here soon, so --

7 DR. SOLLOWS: I guess I'm not -- the same as I had for the
8 small industrial. This wasn't really for this record. It
9 was for, you know, a report at a future date.

10 MR. LARLEE: My only concern is I guess from the revenue
11 side it doesn't sound like there would be an issue, but
12 it's the cost side that there may be some difficulty in
13 doing this segmentation.

14 I mean, I would propose really what we would look at again
15 is examining the demand and energy costs, compare that to
16 the rate components, and if they are in balance then they
17 are, and if they aren't they aren't.

18 DR. SOLLOWS: Okay. So we will perhaps leave this for a
19 later working group or something.

20 Now that's the extent of my questions. Thank you very
21 much.

22 CHAIRMAN: Those are all the Panel's questions. Mr.
23 Morrison, do you have any redirect?

24 MR. MORRISON: No, Mr. Chairman. Thank you.

25 CHAIRMAN: Okay. Well thank you gentlemen for your

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2 testimony and you are excused.

3 MR. MAROIS: Thank you.

4 CHAIRMAN: Mr. MacNutt, while the witnesses are standing
5 down could you refresh my memory as to where we go from
6 here?

7 MR. MACNUTT: It's my understanding, Mr. Chairman, that EGNB
8 has a witness Panel of two persons who would be sworn and
9 give evidence, to be followed by a cross examination, et
10 cetera. Then Mr. Knecht would be sworn on behalf of the
11 Public Intervenor.

12 CHAIRMAN: Thank you, Mr. MacNutt. You can move up, sir,
13 once the stand is vacated.

14 SHELLY BLACK and ANDREW HARRINGTON, sworn:

15 DIRECT EXAMINATION BY MR. MACDOUGALL:

16 MR. MACDOUGALL: Good morning, Mr. Chair, Commissioners. I
17 believe the panel has just been sworn by Ms. Legere. What
18 I would do is just introduce the panel to you, then we
19 have some direct examination. As part of the direct
20 examination there will be a couple of references to some
21 of the graphics or the charts in the written testimony of
22 the panel. So I think it may be useful for the panel to
23 have EGNB-4 in front of them during the direct, which is
24 the written direct testimony of Andrew J. Harrington and
25 Shelly L. Black. There is only a couple of times that the

2 witness will reference it, but there are a few graphics that
3 are useful for the panel to go to.

4 Also as part of our direct examination we will be doing a
5 little bit of rebuttal, primarily in response to questions
6 raised I believe by Commissioner Dumont and the Chair
7 which were addressed to Dr. Rosenberg regarding
8 incentives, and you will recall we had suggested that -- I
9 believe Dr. Rosenberg himself had suggested that this
10 panel would be better prepared to answer those questions.

11 So we will try to address some of that issue in our
12 direct examination.

13 CHAIRMAN: You are probably going to have to remind me what
14 those questions were, Mr. MacDougall.

15 MR. MACDOUGALL: Sure. They were in relation to incentives
16 available for conversion, Mr. Chair.

17 Q.1 - Mr. Harrington, your curriculum vitae is attached at
18 Schedule I of EGNB-4, correct?

19 MR. HARRINGTON: That's correct.

20 Q.2 - And could you just for the record indicate your position
21 with Enbridge Gas New Brunswick?

22 MR. HARRINGTON: I am the general manager of Enbridge Gas
23 New Brunswick.

24 Q.3 - Thank you. And, Ms. Black, your curriculum vitae is
25 attached as Schedule II to your direct evidence, correct?

2 MS. BLACK: Yes, that's correct.

3 Q.4 - And could you just indicate for the record your position
4 with Enbridge Gas New Brunswick?

5 MS. BLACK: I am mthe anager of regulatory affairs and gas
6 supply.

7 Q.5 - Thank you. And, Mr. Harrington, was this evidence
8 prepared together with Ms. Black under your direction and
9 control?

10 MR. HARRINGTON: That's correct.

11 Q.6 - And, Ms. Black, you also assisted in the preparation of
12 this evidence?

13 MS. BLACK: Yes, I did.

14 Q.7 - And there is no changes or revisions to the evidence,
15 correct?

16 MS. BLACK: No, no revisions.

17 MR. HARRINGTON: No.

18 Q.8 - And, Mr. Harrington, do you adopt this as your evidence
19 in this proceeding?

20 MR. HARRINGTON: Yes, I do.

21 Q.9 - And, Ms. Black, do you adopt this as your evidence in
22 this proceeding?

23 MS. BLACK: Yes, I do.

24 MR. MACDOUGALL: Thank you very much. Mr. Chair, we will
25 now just go to the direct and as I say we do raise some

2 questions in -- along the lines of rebuttal and response to
3 certain issues which will just be part of the direct
4 examination. I believe Mr. Harrington will probably be
5 responding primarily in direct with the ability of the
6 panel as a whole to be dealt with in cross examination.

7 Q.10 - Mr. Harrington, could you please explain to the Board
8 the general reason why you have filed your evidence in
9 this proceeding?

10 MR. HARRINGTON: EGNB's evidence first profiles the
11 implications of Disco's proposal from an inter-fuel
12 competitiveness standpoint. It then discusses broader
13 societal implications and makes very specific suggestions
14 as how to limit these implications.

15 In the final analysis we are here to ensure that proper
16 price signals are being sent and that competitiveness is
17 being encouraged, both of which goals we believe are
18 consistent with the government's Energy Policy and in the
19 general public interest.

20 Disco's proposal unfortunately continues to send incorrect
21 price signals to the market, which adversely impacts the
22 competitive energy suppliers in New Brunswick.

23 Electricity customers, the New Brunswick Power
24 Corporation, including Disco and the New Brunswick
25 taxpayers, as well as the environment.

2 Q.11 - Mr. Harrington, why is sending correct price signals in
3 your view so important?

4 MR. HARRINGTON: Price signals motivate customers to alter
5 behaviour. Disco's current price signals encourage New
6 Brunswick residents and businesses to choose electricity
7 for 100 percent of their energy requirements.
8 Additionally there is little incentive to conserve as the
9 price signal indicates that the more you consume the lower
10 the average electricity rate. Correct price signals would
11 motivate electricity customers to conserve and possibly
12 even convert part of their electricity requirement to a
13 more efficient energy source. This would result in
14 positive impacts to the environment and foster a
15 competitive energy market in New Brunswick.

16 Q.12 - Could you please explain the environmental impacts of
17 sending inappropriate price signals?

18 MR. HARRINGTON: The generation of electricity to meet the
19 heating demand in New Brunswick is an inefficient use of
20 fossil fuels. This has serious negative environmental
21 consequences both from an efficiency and emission
22 intensity perspective.
23 From an efficiency perspective, and considering a
24 residential electric heating customer as an example, 70
25 percent of the primary energy used to generate electricity

2 on a high heating demand day is lost before it reaches the
3 home. Only 30 percent of the primary fuel reaches the
4 home in the form of heat. Compare this to natural gas,
5 where on average more than 92 percent of the energy is
6 converted to heat. This results in not only more fuel
7 being consumed than necessary, but higher emissions as a
8 result of the type of fuel being consumed. This same home
9 using electricity to meet its heat and hot water
10 requirements, will generate 20 tons of greenhouse gasses
11 annually. Converting one home from electricity to natural
12 gas reduces the emissions by 15 tons, a 75 percent
13 reduction, and the achievement of 15 one ton challenges
14 for New Brunswick. These improper price signals are
15 actually discouraging conservation and efficient energy
16 usage by continuing to incent New Brunswickers to use
17 electricity for their space and water heating
18 requirements. This price signal makes no sense from a
19 policy, conservation, efficiency or cost perspective.

20 Q.13 - Mr. Harrington, could you now please describe the
21 possible impact on a GS II customer who decides to switch
22 some of their load from electricity to natural gas?

23 MR. HARRINGTON: A GS II or all-electric customer who
24 converts a portion of their energy requirements from
25 electricity to natural gas will be penalized by being

2 switched to the higher-priced GS I rate for the remaining
3 electricity requirements.

4 Using the real life example of an office building found in
5 EGNB exhibit 4 on page 5, and you don't have to turn there
6 right now, this type of customer is one we can easily
7 understand.

8 If this customer could convert their heat to natural gas
9 without the perverse impact of having the rate applied for
10 the rest of their electricity requirement increased to GS
11 I levels, they would actually enjoy a savings of \$36,100
12 annually or 22 percent of their energy requirements for
13 heating.

14 Instead due strictly to the promotional nature of the GS
15 II rate and the fact that it penalizes customers who do
16 not use electricity for 100 percent of their energy
17 requirements, this customer will find that their overall
18 energy costs would increase by \$7,600 or 6 percent annually
19 if they switch.

20 This is due to the fact that their remaining heating
21 requirements for electricity, lights, fans, et cetera has
22 increased to \$43,700 or 8 percent annually because they
23 haven't switched to the GS I rate.

24 Due to this penalizing price signal this customer will
25 choose to continue using electricity for 100 percent of

2 their energy requirements, and as a result continue emitting
3 938 tons of greenhouse gases to our environment annually.

4

5 Q.14 - Mr. Harrington, could you now indicate why you believe
6 it is important to close the GS II rate to new customers
7 at this time?

8 MR. HARRINGTON: EGNB is unable to determine any public
9 interest being served by the continued availability of
10 this rate. The GS II rate results in the avoidance of all
11 of the benefits to the end users, Disco and the
12 environment.

13 EGNB cannot stress enough the importance of removing the
14 penalty in combination with closing the GS II rate to new
15 customers to stop the bleeding.

16 Closing the GS II rate to new customers has a transition
17 phase. And removing the penalty for customers who seek
18 alternate fuel sources will eliminate future
19 discrimination.

20 Q.15 - Could you now please explain the consequences with
21 respect to new construction in the residential and GS
22 classes of sending an incorrect price signal?

23 MR. HARRINGTON: The implications for new constructions are
24 even more problematic. There are three additional impacts
25 that must be considered with respect to the new

1 - 5808 - Direct by Mr. MacDougall -

2 construction market.

3 First some prospective commercial customers, due to the
4 nature of their operation or circumstance, are not able to
5 take advantage of the promotional all-electric rate for
6 their entire energy needs. So this rate is discriminating
7 against customers without any cost of service
8 differentiation.

9 Second, the availability of both the GS II rate and the
10 continuance of the declining block residential rate
11 promotes the continued cross-subsidization of heating
12 customers by non-heating customers within their own
13 respective classes.

14 Finally, these incorrect price signals are creating
15 permanent barriers in the market by the continued use of
16 electric baseboard heaters.

17 The majority of new construction clients, either
18 residential or commercial, who build to use electricity
19 for heating, use electric baseboard heaters due to their
20 low initial installation cost and the existence of the GS
21 II rate and the declining block feature of the residential
22 rate.

23 Future retrofit cost to switch from electric baseboard
24 heating to an alternate fuel are high and may prevent
25 these customers from moving away from electricity in the

2 future.

3 If proper price signals are not introduced the impact on
4 the new construction market will most likely be permanent.

5 And future development in new construction will not
6 change.

7 Q.16 - Could you now please explain the impact of the price
8 signals that Disco is creating with its proposal in your
9 view?

10 MR. HARRINGTON: Disco's proposal will result in the
11 following five impacts. 1) Disco will face increasing
12 demand for electricity which will require further
13 investment in its infrastructure and additional cost to
14 ratepayers. 2) Disco will face continued underrecovery
15 from rates to meet the heating requirement, resulting in
16 revenue deficiencies or more pronounced cross-subsidy. 3)
17 investments made in incremental transmission and
18 distribution infrastructure will make insufficient
19 contribution to the New Brunswick economy unless Disco is
20 allowed to earn on a commercially appropriate capital
21 structure. 4) no distributed generation or any private
22 generation will be undertaken as developers will quickly
23 realize that they cannot compete with the subsidized
24 rates. 5) energy providers will continue ignoring market
25 segments dominated by electricity.

2 In addition to these points, please refer to the
3 illustration on page 9 of EGNB's evidence, that is EGNB
4 exhibit 4. This chart illustrates the end use cost faced
5 by consumers as a function of their increasing heating
6 requirement using existing and proposed residential rates.
7 As a customer consumes more electricity for their heating
8 requirements, the price of the electricity per unit
9 actually decreases. The price signal being sent through
10 both the current and proposed Disco rates is not one which
11 promotes efficiency or one which encourages electricity
12 customers to conserve and/or displace part of their
13 electricity requirement with alternate energy choices. In
14 fact it promotes quite the opposite behaviour. The price
15 signal to encourage heating with electricity remains.

16 Q.17 - Could you now please comment on the impact of Disco's
17 proposals for competitive energy suppliers?

18 MR. HARRINGTON: Energy providers will continue ignoring
19 market segments dominated by electricity. In EGNB's case,
20 we will be less likely to expand in the neighbourhoods
21 with a preponderance of electrically heated homes. As a
22 result, three obvious implications will occur.
23 One, there will be limited investment. There will be less
24 economic growth from private return on equity. Less

1 - 5811 - Direct by Mr. MacDougall -

2 of the same from the related industries and there will be
3 corresponding impacts to employment and trade development.

4 Two, there will limited choice. When and if the proper
5 electricity price signals do exist, customers will not
6 have the choices as the investment necessary for alternate
7 energy providers to service them have not been expanded.

8 Three, there will be increased costs. Costs for alternate
9 energies will remain higher than otherwise, because
10 economies of scales could not be achieved, placing an
11 unwarranted burden on those end users who cannot or choose
12 not to use electricity to meet their energy requirements.

13 Q.18 - Nr. Chair, the next couple of questions, as I say, go
14 to the issues of incentives that were raised with respect
15 to conversion.

16 Mr. Harrington, in your experience, what are the key
17 factors considered by customers when contemplating
18 conversion to natural gas?

19 MR. HARRINGTON: Customers typically consider two main
20 factors. The capitol cost of converting existing
21 equipment or purchase of new equipment and the ongoing
22 operating cost.

23 Several types of incentives exist, such as private
24
25

2 incentives. Those from EGNB, for example. In addition to
3 provincial, federal and even in some cases, municipal
4 incentives are available to help customers convert their
5 hot water and space heating requirements. These
6 incentives are designed to help customers manage their
7 costs to convert or purchase new equipment and may
8 additionally include rebates or long-term financing.
9 When comparing the operating costs of natural gas heating
10 equipment versus electric heating equipment, the current
11 price signal is clear. Heating with electricity costs
12 less than natural gas or oil, particularly when a customer
13 qualifies for the anti-competitive GS II rate.
14 In the absence of proper price signals, incentives aimed
15 at reducing or managing the capital cost will not be
16 effective. To the extent that these prices signals are
17 not corrected, it will limit the opportunities for energy
18 providers, such as Enbridge Gas New Brunswick, and the
19 choices available for New Brunswick.

20 Q.19 - Now, Mr. Harrington, your evidence speaks a lot about
21 sending adequate price signals and the consumers will
22 modify their behaviour in accordance with these signals.
23 How realistic is it that consumers will be able to respond
24 to price signals and convert from electric usage since
25 that response involves capital costs to convert to another

2 energy source for heating?

3 MR. HARRINGTON: It's very realistic. First, people will
4 respond in a variety of ways, not all of which require
5 high capital costs, but will have the joint benefit of
6 lowering costs for both Disco through lower generation
7 costs, and for the consumer through lower end use
8 consumption.

9 For instance, the U.S. Department of Energy has indicated
10 a homeowner in a climate similar to New Brunswick's could
11 reduce their energy requirement for heating by up to 10
12 percent through the simple installation of an Energy Star
13 thermostat. This would have a capital cost of less than
14 \$100 and would be paid back almost instantly.

15 Second, let's talk about price signals that end users
16 cannot respond to, increases to the monthly charge and
17 increases to the rates applied for the first few hundred
18 kilowatt hours per month. Sending price signals here has
19 no market effect at all. There are measures like Energy
20 Star appliances and compact florescent lighting that
21 customers can install to reduce energy in the front block.
22 Although it's important to note that all of these measures
23 have less effect in electrically heated homes.

24 The point here is where there is discretion increases

2 should be directed toward those aspects of the rates where end
3 users will be able to adjust their behaviour, such as in
4 their heating requirements, as opposed to those aspects of
5 a rate where they will not. This will result in benefits
6 to all electricity end users.

7 Third, let's be really clear. Capital costs or other
8 customer concerns are only a barrier once the proper price
9 signals are in the market. If the argument underpinning
10 the question is that perspective capital costs incurred by
11 an end user to respond to price signals will prevent
12 conversion, therefore there should be no price signals,
13 then I would say you are putting the cart before the
14 horse. From the outset, Disco said it was an objective to
15 send the correct pricing signals into the market. EGNB
16 agrees completely.

17 Finally, pricing signals will and do work. This is
18 undeniable. Markets do respond. A few examples will
19 illustrate this.

20 Under EGNB's proposal for Disco residential rate, end
21 users would be able to save enough annually on their heat
22 and hot water if they switched to natural gas to pay for
23 the conversion out of savings. If there was additional
24 certainty about the progressive elimination of the
25 declining block, EGNB would immediately be able to

2 penetrate the residential central heating retrofit segment,
3 illustrating a better than 7 year pay back period. An all
4 year cost of conversion would be paid out of savings.

5 Under Disco's proposal this would not happen.

6 For the second example, I want to talk about my experience
7 in the Ontario market. When I first started working in
8 the gas industry, one market opportunity which was being
9 worked on was the elimination of all electric areas.
10 These were geographic areas where home builders were
11 forbidden to use other forms of energy in the homes they
12 built. The homes were built using electric baseboard
13 exclusively. During a very rare spurt of prudence,
14 Ontario Hydro adjusted its residential rates up
15 significantly and removed this all electric barrier for
16 these areas. At very high initial capital costs to the
17 homeowners, these homes were almost immediately converted
18 to natural gas. While very historic now, I would venture
19 to say that these homes and there were large numbers went
20 from being 100 percent electric heat to 100 percent
21 natural gas within a year or two. The demand was
22 absolutely incredible.

23 For the final example, which really isn't an example, more
24 of an example in weighting. I will profile a joint
25 initiative between Enbridge Gas New Brunswick and the

2 provincial government, wherein together we approached the
3 federal government under a national program called the
4 Opportunities Envelope. EGNB and the Province
5 successfully acquired \$4.4 million, more than any other
6 applicant, for a number of off electric programs aimed at
7 reducing greenhouse gases. EGNB and the Province are
8 unable to spend the vast majority of these dollars because
9 of NB Power's anti-competitive rates.

10 For example, there are programs worth \$1 million aimed at
11 commercial customers. Unless the penalty aspect of the GS
12 II rate is eliminated, this will not get spent. To be
13 really clear, even if you provide conversion for free to
14 an end user, they will not convert if the ongoing cost
15 implications are negative.

16 There are multiple points here. First, this application,
17 the one to the Opportunities Envelope was so successful,
18 and as a blueprint I believe for the future, because
19 Disco's winter electricity is so dirty from a greenhouse
20 gas perspective, the federal government will invest
21 heavily in end users who reduce the demand for this dirty
22 electricity. I believe there is no opportunity like this
23 anywhere else in Canada.

24 Second, if these programs do not get used by March 31st
25 2007, the investment opportunity will be lost and

1 - 5817 - Direct by Mr. MacDougall -

2 40,800 tons per year will still be emitted.

3 Finally, I guarantee that 100 percent of the funds for
4 this program reference will be spent as soon as the
5 penalty is lifted because customers will respond to the
6 price signals and EGNB, the provincial and federal
7 government will be there to assist them.

8 Q.20 - And Mr. Chair, just before -- a couple of wrap up
9 questions. There was one question I want to raise in
10 response to remarks made by Mr. Marois. One of EGNB's
11 recommendations is to allow existing GS II customer, who
12 switch part of their energy requirement away from
13 electricity to another energy source to remain on the GS
14 II rate for their remaining electricity requirements.
15 On direct Mr. Marois stated that Disco could not support
16 this for equity reasons, citing that if this
17 recommendation were accepted there could be two identical
18 non all electric customers who are paying different rates.

19 Did this equity concern raised by Disco cause EGNB to
20 reconsider its request?

21 MR. HARRINGTON: Absolutely not. Let's be practical.

22 First, the equity concern that Mr. Marois raised, that of
23 identical non all electric customers paying different
24 rates already exists. There are customers who pay the GS
25 II rate who do not meet 100 percent of their energy

2 requirements with electricity. I would go as far as saying
3 this is a wide spread occurrence. Disco is apparently
4 aware of this, as well as came out in Mr. MacDougall's
5 cross. Disco at various points in its cross has indicated
6 that they are completely unable to manage this aspect of
7 the GS II rate.

8 Second, if there is an equity concern, it is the fact that
9 the GS II rate exists at all. This rate was obviously
10 implemented historically for the purposes of promoting
11 electrification and was inherently and undeniably
12 inequitable. The policy reasons that allowed the
13 introduction of this rate are long gone. It is undeniably
14 inequitable to allow the perpetuation of an aspect of a
15 rate which is anti-competitive and benefits no one to
16 continue.

17 Third, Disco and all intervenors have said that the
18 general service rate must be merged as quickly as
19 possible. It is a practical fact that merging of these
20 two rates will require the elimination of the penalty
21 aspect of the GS II rate.

22 EGNB's recommendation is to do this immediately as opposed
23 to some uncertain date in the future.

24 Finally, this is a transitional measure as Disco moves to
25 ultimately merging the GS rates and as such is

1 - 5819 - Direct by Mr. MacDougall -

2 particularly appropriate in the current circumstances.

3 Q.21 - Mr. Harrington, could you now just briefly list what
4 specific recommendations Enbridge Gas New Brunswick is
5 making to the Board?

6 MR. HARRINGTON: Yes. EGNB makes the following requests, as
7 Dr. Rosenberg also set out. 1) close the GS II rate
8 immediately to new customers. 2) eliminate the penalty
9 when a GS II customer converts part of their energy
10 requirements to an alternate fuel. 3) apply a larger
11 increase to the GS II rate than the GS I rate to effect as
12 much conversion -- convergence as possible through this
13 rate requirement. 4) in accordance with the Board's
14 ruling, apply the largest adjustment possible to the
15 residential tailblock.

16 And in addition to these requests, EGNB strongly
17 encourages the Board to approve a competitive market based
18 net income for Disco which reflects a capital structure
19 and return on equity for Disco to ensure it is placed on a
20 level playing field with alternate energy providers. And
21 finally, EGNB cannot stress enough the Board's attention
22 to removing the abberation of the GS II class and to
23 provide an opportunity for these customers to choose
24 alternate fuels without penalty.

25 Q.22 - And finally, Mr. Harrington, do you believe your

1 - 5820 - Direct by Mr. MacDougall -

2 recommendations are in line with the Provincial Energy Policy
3 and the Board's CARD ruling?

4 MR. HARRINGTON: Yes, most certainly. EGNB was retained by
5 the Province on very clear policy objectives. To deliver
6 natural gas at the lowest possible cost to as many
7 customers as possible in as quick a timeframe as possible.

8 These objectives continue to be frustrated by the
9 continuance of the anti-competitive electricity rate
10 structures. Further, while EGNB is the only alternate
11 energy provider represented at this proceeding, we do
12 represent the interests of our rate payers as well as, we
13 believe, the interests of other energy providers.

14 Alternative energy providers and their customers do not
15 want to continue to subsidize electricity rates through
16 their tax dollars. There is no doubt that sending the
17 correct price signals is in everyone's interest,
18 particularly in these times of generally higher overall
19 energy costs. Doing so is the only way to optimize our
20 energy usage, reduce overall costs, encourage conservation
21 and benefit the environment.

22 MR. MACDOUGALL: Thank you very much, Mr. Harrington. The
23 panel is now available for cross examination, Mr. Chair.

24 CHAIRMAN: All right. I think we will take our luncheon
25 break and come back at quarter after one.

1 - 5821 - Direct by Mr. MacDougall -

2 (Recess - 12:00 p.m. - 1:15 p.m.)

3 CHAIRMAN: Good afternoon, ladies and gentlemen. The Board
4 has one preliminary matter and that is you responded I
5 believe yesterday to a question from Commissioner
6 Ferguson-Sonier with A-152, and that was the
7 organizational chart.

8 We would like you to go further, in other words, down so
9 that one gets a sense of how many employees, at what level
10 and whom reporting, et cetera. You don't have to put
11 names or anything.

12 MR. MORRISON: Mr. Chairman, there was some discretion on
13 our part exercised in how far down we go, and -- is that
14 only for Disco that you want the deep organizational
15 chart, or --

16 CHAIRMAN: They would like to have it for all the companies.

17 MR. MORRISON: Okay. And do you have --

18 CHAIRMAN: Just think, Mr. Morrison, of a chain of title on
19 the wall.

20 MR. MORRISON: Oh, I understand chains of title very well.

21 The question we had of course is do we go down to the
22 director level, manager level, you know? Where do we cut
23 it off?

24 CHAIRMAN: Right down to the folks who go out and climb the
25 poles.

1 - 5822 - Direct by Mr. MacDougall -

2 MR. MORRISON: That's fine.

3 CHAIRMAN: Okay. Mr. Lawson, do you want to go next?

4 MR. LAWSON: I will go next but I don't have any questions.

5 CHAIRMAN: Okay. That's the way I like it.

6 MR. MORRISON: Mr. Chairman, I do have one preliminary
7 matter. It's an undertaking response.

8 CHAIRMAN: Sorry. Yes.

9 MR. MORRISON: This is the undertaking response with respect
10 to -- you will recall there was a settlement surrounding
11 the precipitator upgrade. This is -- we are going to be
12 filing this in confidence because the settlement
13 provisions agreement have very strict confidentiality
14 provisions, but it is undertaking number 3 from February
15 22nd.

16 CHAIRMAN: We will do the same with this as we did with --
17 previously, and that is the expunged version shall be
18 exhibit A-160 and the pink paper in confidence version
19 will be A-160(c).

20 MR. NELSON: Mr. Morrison, was this under the Crown
21 Construction Act, this contract?

22 MR. MORRISON: I don't know, Commissioner. I'm assuming it
23 was but I don't know. I could find out and advise you.

24 MR. NELSON: Could you, please?

25 MR. MORRISON: Yes, sir.

2 CHAIRMAN: Any other preliminary matters?

3 MR. GORMAN: Mr. Chairman, just one other preliminary
4 matter. During my cross examination I requested a number
5 of undertakings and it will no longer be necessary to
6 fulfil the first undertaking given to us which was the
7 question relating to the short term contract usage in the
8 past. Since that's now coming out of the rate schedule we
9 no longer require them to provide that information.

10 CHAIRMAN: Okay. Thanks, Mr. Gorman. Any other -- okay.

11 Then does the Irving group have any questions, Mr. Booker?

12 MR. BOOKER: No, Mr. Chair, no questions for this Panel.

13 CHAIRMAN: Thank you. So, Mr. Gorman, do you have any
14 questions of this Panel?

15 MR. GORMAN: No questions, Mr. Chairman.

16 CHAIRMAN: Good. Vibrant Communities isn't here. So we are
17 down to the Public Intervenor. Mr. Hyslop, do you have
18 any questions?

19 MR. HYSLOP: Less than five minutes worth, Mr. Chair.

20 CHAIRMAN: Good. Just before you start, Mr. Hyslop, the --
21 it's in the confidential response, Mr. Morrison -- sorry,
22 in the confidential response that is A-160(c) it of course
23 indicates the amount of settlement but it doesn't say in
24 whose favour that settlement was.

25 MR. MORRISON: It was in favour of Coleson Cove, sir.

1 - 5824 - Cross by Mr. Hyslop -

2 CHAIRMAN: Okay. Thank you. Sorry, Mr. Hyslop. Go ahead.

3 CROSS EXAMINATION BY MR. HYSLOP:

4 Q.23 - Thank you, Mr. Chair. I have two advisors I find my
5 cross examinations become even shorter and shorter.

6 Thank you, Mr. Harrington, Ms Black, it's nice to meet you
7 and have you with us. And I will begin by prefacing my
8 remarks or my questions by saying as Public Intervenor
9 many of the policy points that you make are well taken.
10 However, having said that I do have a couple of questions.

11 And first, you did receive your franchise in August I
12 think of 1999, Mr. Harrington?

13 MR. HARRINGTON: That's correct.

14 Q.24 - Right. And I understand from having a quick look
15 through your franchise agreement there is supposed to be a
16 seven year review take place and that's some time this
17 fall or in the close foreseeable future, correct?

18 MR. HARRINGTON: This is the seventh year.

19 Q.25 - Yes. Okay.

20 CHAIRMAN: Now, Mr. Hyslop, don't bring up anymore work for
21 us, please.

22 MR. HYSLOP: Trying to find a role for the Public
23 Intervenor.

24 CHAIRMAN: I sort of thought that.

25 Q.26 - Having said that, I was interested in your comments on

2 price signals, and to achieve some of the goals that you have
3 outlined for EGNB and what you see as the policy, would I
4 be wrong to suggest that you would even recommend
5 something like that residential electrical customers
6 should be paying say rates that are 1.25 times their cost?

7 Would that be something that you would see as reasonable,
8 Mr. Harrington?

9 MR. HARRINGTON: Well Dr. Rosenberg put forward EGNB's rate
10 proposal with regard to the residential rate. I think the
11 primary changes there were -- as compared to Disco's
12 proposal was to apply as much as possible under the
13 Board's ruling to the tail block. Whether that's 1.25 or
14 not I'm not sure.

15 Q.27 - Okay. Fair enough. That's a fair answer. And as a
16 policy though would you suggest that we should lower the
17 revenue cost ratios for the large industry in order to
18 raise the revenue cost ratios for the residential class as
19 a matter of policy?

20 MR. HARRINGTON: No. I think what is important is that
21 customers receive the proper pricing signals for the
22 energy that they are using. For instance on Enbridge Gas
23 New Brunswick's proposal around the residential rate as I
24 have indicated we have applied as much of the increase as
25 possible to the tail block in accordance with the Board's

1 - 5826 - Cross by Mr. Hyslop -

2 ruling, to make sure that the most effective price signal is
3 sent. What the impact is to industrial customers and how
4 that works out in the overall revenue to cost ratios, I
5 think those were questions -- those would be questions
6 that would be better put to Dr. Rosenberg.

7 Q.28 - Okay. So in terms of equity for example to achieve
8 your goal, the fact that you would be moving the revenue
9 cost ratio for the large industrial firm transmission
10 class to a revenue cost ratio of less than .9, would that
11 be something that if that happened that's the way it
12 should be? That's the way you view it?

13 MR. HARRINGTON: If you look at Enbridge Gas New Brunswick's
14 proposal for the residential -- for Disco's residential
15 rate, what we are doing is making sure that the cross
16 subsidy between customers who do not heat with electricity
17 and customers who do heat with electricity are being
18 brought closer together. And that really is all that we
19 are proposing to do.

20 Q.29 - And that would be the same point that the Board in its
21 December 21st ruling suggested that that whole spread
22 should be collapsed over I think next five years in three
23 equal parts. Is that -- are you suggesting that the Board
24 in fact move even faster than what they ruled in December?

25 MR. HARRINGTON: No. I think we are comfortable with the

2 Board's ruling. I think what would be helpful is additional
3 certainty over timing. We have been concerned since we
4 commenced operations with the slowness of Disco to make
5 changes to some of their rates. This is the one
6 opportunity that we have had to come and offer our
7 evidence on the matter. We know that the Board has said
8 three equal changes over a period of five years. It would
9 be very helpful if there was additional certainty so that
10 customers could prepare and start responding to price
11 signals.

12 Q.30 - Okay. So you would like to see the Board make that a
13 very firm order at the end of the day at the end of these
14 hearings?

15 MR. HARRINGTON: That's correct.

16 Q.31 - Right. Almost reaffirming the position that they took
17 on December 21st, correct?

18 MR. HARRINGTON: That's correct.

19 Q.32 - Right. And last but not least -- and, Mr. Harrington,
20 I don't in any way want to make a suggestion that -- I
21 know business plans go awry, but in reading your request
22 for -- or response to a request for proposal that you
23 filed with this Board in 1999, I noted that there were
24 270,000 residential homes or locations in New Brunswick.
25 Does that sound right, subject to check?

1 - 5828 - Cross by Mr. Hyslop -

2 MR. HARRINGTON: In terms of all up residential customers at
3 the time, yes.

4 Q.33 - Yes. And I did read -- I read the reports that Mr.
5 Easson had been filing with the Board on the ongoing, and
6 the last one I found was for December 31st 2003. And at
7 that time that report indicated there were 2,312 customers
8 of EGNB in New Brunswick at that date. Does that sound
9 right, subject to check?

10 MR. HARRINGTON: It sounds approximately right. I could
11 certainly bring you up to speed with where those numbers
12 have gone beyond that.

13 Q.34 - Well yes, I would be interested in hearing. How are
14 you making out the last couple --

15 MR. HARRINGTON: Well just to provide some comparison there.
16 Our proposal back in 1999, almost seven years to this
17 date was when it was submitted, it projected that we would
18 be serving approximately 17,000 customers by this point in
19 time. We are serving just over 5,000 customers at this
20 point in time.

21 MR. HYSLOP: Thank you very much, Mr. Harrington. Those are
22 all my questions, Mr. Chair, and again although I think at
23 the end of the day I can't maybe go as far, I want to
24 reiterate in principle the use of gas in New Brunswick I
25 hope continued to be aggressively pursued by your company,

2 Mr. Harrington. Thank you.

3 CHAIRMAN: Thanks, Mr. Hyslop. Mr. MacNutt, does the Board
4 staff have any questions?

5 MR. MACNUTT: Board staff have no questions for this Panel.

6 CHAIRMAN: Okay.

7 MR. MORRISON: I know you didn't ask, Mr. Chairman. But I
8 have no questions.

9 CHAIRMAN: I can sense these things.

10 MR. MORRISON: But perhaps before the Board starts, I do
11 have an answer to the question that was posed by
12 Commissioner Nelson.

13 The precipitator contract was let under the provisions of
14 the Crown Construction Contracts Act -- was.

15 CHAIRMAN: I have no idea. I'm not familiar with that
16 legislation. I think Mr. MacNutt is. We are curious up
17 here as to how under the Crown Corporations -- sorry, not
18 the Crown Corporations but the Crown Construction Act
19 something would be confidential.

20 MR. MORRISON: It has been a long time since I had a look at
21 the Crown Construction Contracts Act, Mr. Chairman. But I
22 understand the mechanism of the legislation is in the
23 tendering process.

24 But once the contract is let then it proceeds in the
25 normal course as any other commercial contract. And

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2 therefore confidentiality provisions and so on would apply.

3 It is the tendering process that has to be -- which really
4 the legislation is designed to control.

5 CHAIRMAN: Okay. Do you concur, Mr. MacNutt?

6 MR. MACNUTT: Yes. It is not -- the legislation and the
7 regulations under the Crown Construction Contracts Act do
8 not contain any provisions with respect to confidentiality
9 However, the contracts entered into pursuant to them do
10 contain some confidentiality provisions.

11 But I would believe in this situation, and perhaps it
12 could be confirmed by Mr. Morrison, that the
13 confidentiality clause that is inhibiting the putting of
14 the settlement on the record would be in the settlement
15 contract.

16 MR. MORRISON: It is in the settlement agreement. It is not
17 in it itself. Which is not unusual in settlements of
18 course.

19 CHAIRMAN: Good. Thank you.

20 MR. DUMONT: Mr. Harrington, from what I understand, if you
21 were to get the pricing for electricity to entice people
22 to switch to natural gas or whatever other fuel, what
23 would people in the north do?

24 MR. HARRINGTON: Well, I think you mentioned it in your

25

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2 question, other fuels. Actually there is a few points I would
3 like to get out here.

4 One is it's not just about natural gas and conversion. Of
5 course we have an interest in making sure that our
6 business is as successful as possible and attracting as
7 many customers as possible.

8 However, there are alternate fuels available in all areas
9 of the province. Propane, oil, wood all have a part to
10 play in terms of meeting end use energy requirements. And
11 all are frustrated by the same issues associated with
12 Disco's rates.

13 Third is it is a bit of a chicken and an egg. Enbridge
14 Gas New Brunswick's ability to expand its distribution
15 service -- and I won't be as facetious enough to say that
16 we would be able to do that with the markets alone that
17 are available -- is limited by our ability to compete with
18 alternate fuels including electricity.

19 The fact of the matter is we will be able to provide more
20 service to more areas more quickly if we are able to
21 penetrate additional markets and especially those that we
22 are restricted from right now due to Disco's rates.

23 MR. DUMONT: Thank you. That is all I have.

24 CHAIRMAN: I have no questions. Mr. MacDougall, do you have
25 any redirect?

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2 MR. MACDOUGALL: No, Mr. Chair.

3 CHAIRMAN: Good. Thank you, panel. You are excused.

4 ROBERT KNECHT, sworn:

5 DIRECT EXAMINATION BY MR. HYSLOP:

6 CHAIRMAN: Go ahead, Mr. Hyslop.

7 MR. HYSLOP: Thank you, Mr. Chair. Good afternoon,

8 Commissioners and good afternoon, Mr. Knecht.

9 Q.1 - Would you please state your name again for the record,
10 sir?

11 A. My name is Robert D. Knecht.

12 Q.2 - Right. And in response to Disco's refiled CCAS and Rate
13 Design Proposal, I understand you have prepared some
14 additional evidence?

15 A. I did.

16 Q.3 - Right. And I refer you to what has been entered, I
17 believe, as exhibit PI-18. Was this document prepared by
18 you and under your supervision?

19 A. It was.

20 Q.4 - Right. And do you have any corrections with respect to
21 the same at this time?

22 A. I have no substantive corrections and I think we will skip
23 the typos.

24 Q.5 - Okay. And do you now adopt this evidence for purposes
25 of these proceedings?

2 A. I do.

3 Q.6 - Right. And, Mr. Chair, I believe at the earlier CARD
4 hearing Mr. Knecht was accepted as a witness with respect
5 to cost allocation and rate design. And I assume that
6 such designation and acceptance by the Board continues?

7 CHAIRMAN: Oh I would certainly think so.

8 MR. HYSLOP: Thank you.

9 Q.7 - Mr. Knecht, my first question is with regard to Mr.
10 Larlee's revised CCAS. Can you generally state how good a
11 job he did on that?

12 A. I think Mr. Larlee did quite a good job. I felt my
13 assignment was to evaluate how consistent the refiled
14 study was with the Board's December 21st decision.
15 Generally it was quite consistent. We found a few things
16 in the discovery process that we corrected. There were
17 two issues I think deserving of a little bit more mention.
18 One was the treatment of the transmission costs being
19 allocated to the interruptible customers. And the second
20 is the treatment of the combustion turbine costs in the --
21 in Schedule 5.1 of the CCAS.

22 Q.8 - Let's deal first with the impact of changes to the OATT
23 tariff. Would you comment on that please?

24 A. Sure. Mr. Larlee changed the methodology that was used in
25 the CCAS we were working with last fall to reflect

2 a change that went into effect in May of 2005 with respect to
3 the open access transmission tariff, the OATT. He changed
4 the methodology to reflect the fact that the rates for
5 interruptible service were changed for self-generators,
6 the capital I Interruptible service, if you will, were
7 changed. In the OATT this reduced the allocation of costs
8 to the interruptible customers by about 1.7 million and
9 redistributed it to the other -- to the rest of the
10 customers.

11 I believe this change is consistent with cost causation.
12 The objective that the Board had, I think that we all had
13 in the fall, was to pass through transmission costs as
14 accurately as possible. And this change is consistent
15 with that. The only reason I highlight this particular
16 change is that in the Board's decision it seemed to feel
17 that this was not going to have an impact on interruptible
18 customers whereas if we are going to set rates for
19 interruptible customers that are based on allocated costs,
20 then this in fact will have and probably does have an
21 effect on the rates for interruptible and possibly surplus
22 customers as well.

23 Q.9 - Thank you. Now the second issue you mentioned was the
24 allocation of combustion turbine costs. Can you outline
25 your issue with respect to this and any concerns that

2 these costs happen to increase say during the Point Lepreau
3 refurbishment?

4 A. This was an issue that was not specifically addressed in
5 the Board's decision. In the CCAS that Disco filed last
6 summer, I guess they had an allocation methodology which
7 assigned to all of the CT, combustion turbine costs only
8 to essentially electric heat customers. Residential, GS
9 II -- residential electric, GS II and a portion of the
10 wholesale customers which were deemed to be electric heat
11 customers.

12 In the study that I had filed I had used the 1992
13 methodology and had basically classified them as energy
14 related and allocated them to all the rate classes on that
15 basis.

16 From a cost causation standpoint, any customer who is
17 using the system when those are running is contributing to
18 the need for those systems, whether they are electric heat
19 customers or large industrial customers or residential non
20 electric heat customers. Everyone is contributing to the
21 need for that and so therefore, it would seem to me that
22 while you can make an argument for different allocators,
23 the one that Disco is using is not correct. And that it
24 seems like the options are either to use an energy
25 allocator consistent with the 1992 methodology or to use

2 some sort of peak based allocator for anyone who is

3 contributing to those peak costs.

4 Obviously this problem is relatively insignificant at

5 current levels of CT operation. If in fact that increases

6 it becomes a bigger matter, and one that I think would be

7 worth resolving now rather than waiting for that to come.

8 Q.10 - Thank you. Now there has also been some minor

9 confusion over the treatment of export sales credits and I

10 think I went through that with Mr. Larlee a little bit the

11 other day, but would you please comment on Mr. Larlee's

12 position, the point you are raising and any recommendation

13 you might have?

14 A. My view is there is two separate issues with respect to

15 the treatment of the export margin credits. First is how

16 you assign them to each class. How much credit you give

17 to each class. And this is the issue of how they get

18 classified and how they get allocated, whether they are

19 treated as a revenue credit or they are treated as a cost

20 offset, the classification and allocation is an arithmetic

21 exercise that has been resolved.

22 There is a second issue which Ms. Chown and I raised in

23 1991 with respect to how you consider that when you are

24 doing your revenue cost ratio calculations. Do you

25 consider that as an offset to costs or do you consider it

2 as an addition to revenues?

3 That is is it similar to a cost credit or is it similar to
4 pole revenues, some additional revenues that get earned
5 and get added to the revenue base. And this is a
6 completely different issue and I think Mr. Larlee is
7 trying to push them together to apply the Board's ruling
8 to the treatment of these classes as a cost credit.

9 Back in 1991 when Ms. Chown and I did present evidence on
10 this topic, we argued that the company was building
11 capacity in advance of domestic need in order to serve the
12 export market, and therefore they were -- these were costs
13 that were really associated with the export market and
14 therefore should be assigned to the export customers, as
15 you will, and therefore should be treated as a cost
16 credit. The Board didn't agree with us at the time and
17 determined that a revenue credit was more appropriate.
18 To be perfectly honest I think the cost basis that Ms.
19 Chown and I used in 1991 is less -- is certainly less true
20 today if it is true at all. I see much less of a sense
21 that the company is building to serve the export market.
22 But I guess my point here really was this was an open
23 issue. It was not addressed in the December decision. It
24 was addressed in the 1992 CARD decision and my
25 recommendation is the Board just clarify how it should be

2 done.

3 Q.11 - Now in your evidence based on Disco's total revenue
4 requirement in its filing, did you propose any different
5 allocation, each class as revenue requirement?

6 A. I did not. I looked at the proposal. When it comes to
7 allocating the revenue requirement to the various rate
8 classes I think everyone agrees that this is a matter of
9 judgment. We all like to see some progress towards cost
10 base rates. We all like to see some treatment of
11 gradualism.

12 In that progress that is being made, I looked at the
13 proposal that they made, I looked at the progress towards
14 cost based rates. I guess I would say it's on the
15 unaggressive end of moving towards cost based rates,
16 particularly for the business classes, and particularly
17 between the large industrial and the smaller business
18 classes.

19 But generally there was progress being made and it looked
20 like it was enough that it was within the range of being
21 reasonable.

22 Q.12 - Now in your evidence, exhibit PI-18 at page 11, you
23 have something called progress metric. Can you explain to
24 the Board what a progress metric is and how it works and
25 what it attempts to show?

2 A. I apologize for giving the thing a bad name, but the idea
3 is to try to show how far -- how much progress -- quantify
4 how much progress each class is making towards cost based
5 rates as part of the proposal. And in that I start with
6 what I call the normalized revenue to cost ratios, that
7 is, the revenue cost ratios under present rates, as if
8 they were recovering all of the costs. And then compare
9 that to the revenue cost ratio under the proposed rates.
10 And I look how far you need to go to get to 100 percent,
11 and then how far you actually get.

12 So for example if a class started at 90 percent and it
13 goes to 92 percent, it has made -- it has progressed 20
14 percent of the way towards getting to fully allocated
15 costs.

16 And that's all this is. It's a little way to try to gauge
17 as if -- well we are looking at one class and it has moved
18 86 to 87, how does that compare to a class that has moved
19 94 to 95? And so it's assigning a little bit of a scale
20 to estimate how much progress is being made.

21 Q.13 - Now after you filed your evidence we found an
22 additional \$2.1 million in revenues, and I guess my
23 question is have you had the opportunity to update the
24 progress metric that was found at page 11 of your
25 evidence?

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2 A. I guess I did. Are you submitting --

3 Q.14 - Yes. We would like to submit that as --

4 A. I would. It's simply reflecting the fact -- as I guess
5 the Board is aware, we found that the underestimated the
6 revenues coming from the interruptible surplus customers
7 in the amount of 2.1 million. The company agreed that
8 that should be taken out of their revenue requirement and
9 they have taken that out of the -- proposed to take it out
10 of the large firm industrial customers, thereby lowering
11 the increase for the large industrial customers and
12 lowering that class' progress towards cost --

13 Q.15 - Maybe just hang on until we get the exhibit marked and
14 before the Board, Mr. Knecht, if you wouldn't mind.

15 MR. HYSLOP: I move to have this entered as an exhibit, Mr.
16 Chairman.

17 CHAIRMAN: It will be PI-23.

18 Q.16 - I might -- Mr. Knecht, now that everyone has PI-23,
19 could you indicate quickly the findings and perhaps
20 commenting on what the results are in general terms and
21 specifically perhaps to residential and other classes?

22 A. Yes. This table shows basically the same pattern as that
23 in table RDK-2 on page 11 of my evidence. The points that
24 I would make is that the residential class of the

25

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2 major classes is the one that's making the most progress
3 towards cross-based rates. And that's about 20 percent
4 which is not terribly aggressive but not bad. It
5 certainly gets it within the 95, 105 range which is a
6 positive feature.

7 The General Service I and General Service II classes are
8 making less progress. And they are basically constrained
9 by the fact that there is not much progress being made by
10 the large industrial customers, particularly the large
11 industrial firm transmission customers.

12 And with the assignment of that 2.1 million that progress
13 towards cross-based rates for large industrial firm
14 transmission customers has now dropped to 5 percent, it is
15 getting to be very little progress at all.

16 Q.17 - Now during these hearings -- and we again had evidence
17 filed by EGNB by Dr. Rosenberg on behalf of EGNB. And
18 have you had an opportunity to review Dr. Rosenberg's
19 proposal? And have you had an opportunity to prepare a
20 progress matrix with respect to his proposal, sir?

21 A. Yes, I have.

22 MR. HYSLOP: Okay. We would move to have a further exhibit
23 entered, Mr. Chair.

24 CHAIRMAN: That will be PI-24.

25 Q.18 - Mr. Knecht, I would ask if you could briefly comment or

2 provide any comments you might have with regard to Dr.

3 Rosenberg's proposal. And then if you would briefly

4 comment on the results you obtained in exhibit PI-24?

5 A. I think the issue with Dr. Rosenberg's proposal is that

6 Dr. Rosenberg is implicitly relying on a cost allocation

7 study that's not consistent with the one that Disco has

8 filed in these proceedings.

9 And the reason that I say that is exhibited in PI-24 here.

10 Dr. Rosenberg proposes very substantial progress towards

11 cost-based rates for the residential class. I calculated

12 at 71 percent in this exhibit.

13 And pretty good progress towards -- very good progress

14 towards cost-based rates particularly for the GS I class

15 by assigning a zero percent increase.

16 I guess where I am concerned here is that with respect to

17 the large industrial class and particularly the firm

18 transmission customers, he is actually proposing a less

19 than system average rate increase, which is going to lower

20 the revenue-cost ratio for that class and thereby

21 obviously not make any progress at all towards cost-based

22 rates.

23 And that would not fall into the range of what reasonable

24 proposals are I think, unless there are strong extenuating

25 circumstances for setting the rates for that

2 class at well below cost.

3 At this point, and based on the evidence on the record, I
4 don't know that there is strong evidence that large
5 industrial firm transmission customers should be getting
6 an increasing discount from their cost responsibility as a
7 result of this proceeding.

8 Q.19 - The exhibit PI-24 shows only the firm transmission
9 large industrial customers, not the interruptible
10 customers. It also breaks the large industrial rates into
11 distribution and transmission categories. Why did you do
12 this?

13 A. Actually the distinction between those two -- I have two
14 different reasons for doing that. Separating the firm
15 large industrial from the interruptible, small i
16 interruptible customers, is because interruptible service
17 is a very different kind of service.

18 It has very different service characteristics. It can be
19 interrupted. And moreover, it's served by a very
20 different set of tariff charges. It's not based on
21 embedded costs. It's primarily an incremental cost-based
22 tariff.

23 And the rates are completely different. They are set in a
24 completely different way for a different service. And
25 therefore, as a general rule, I think that Disco

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2 should separate out firm and interruptible customers in its
3 CCAS.

4 With respect to the distribution voltage and the
5 transmission voltage customers, again this I think falls
6 under what Dr. Rosenberg described as more information is
7 better. It does provide a little signal as to perhaps the
8 rate design within the large industrial class as to
9 whether it is properly structured.

10 Q.20 - Mr. Knecht, in the Board's December 21st 2005 ruling it
11 dealt with interruptible and surplus rate customers and
12 stated as follows at page 33.

13 The Board considers it appropriate that interruptible rate
14 customers should pay for some of the fixed generation
15 costs. For most of the years it is the in-province
16 generation that provides the interruptible energy and at a
17 lower rate than for firm energy. The specific amount of
18 the contribution will be established during the review of
19 Disco's revenue requirement. First what was Disco's
20 proposal?

21 A. When it was filed Disco proposed that it make no change to
22 the adders that it adds on above the incremental
23 generation cost for these customers.

24 At the time, Disco believed that that would actually mean
25 a negative contribution to any costs above that. It

2 would be about .7 million below the actual allocated costs for
3 generation and transmission to those customers.

4 With the 2.1 million that we found, the proposal is now to
5 provide 1.4 million from these customers as a contribution
6 above the generation and transmission costs.

7 Q.21 - Can you outline what you understand to be their
8 reasoning for not proposing a contribution to fixed
9 generation costs and provide any comment that you might
10 have on their position?

11 A. They offer two reasons for not doing that. One is that
12 they felt like that they needed to do something to their
13 cost allocation study to figure out what sort of costs
14 needed to be allocated to these customers so that they
15 could then add them into the rates. And the second
16 concern they raised was that they were concerned about
17 switching to firm service.

18 I don't think the first concern is relevant at all. There
19 is no reason that you need to make a judgmental
20 contribution to generation costs or overhead costs based
21 on a cost allocation study. In fact we see there are not
22 revenue-cost ratios that are 100 percent for any of the
23 classes.

24 The issue of switching -- of these customers switching to
25 firm service I believe is a very serious issue. I'm

2 not sure that a modest contribution to fixed cost is going to
3 make that difference.

4 The issue with respect to the Lepreau refurbishment I
5 think is a much more serious concern than some small
6 contribution to -- than some small contribution to
7 overhead and fixed costs.

8 Q.22 - Now do you have a recommendation that you would make to
9 this Board with respect to a change in the surplus
10 interruptible rate?

11 A. The recommendation I put in my evidence was that overall
12 something on the order of about \$3 a megawatt-hour which
13 would be about 5 percent of allocated generation and
14 transmission costs should be -- would be, you know, a very
15 modest contribution for what is essentially an opportunity
16 service.

17 Therefore, because it's 5 percent, it implies a revenue-
18 cost ratio of about 105 percent.

19 Q.23 - Okay. Now you mention something about the ability of
20 surplus customers and the concerns of moving them into
21 firm service and perhaps vice versa. Can you elaborate on
22 that point to the Board?

23 A. Let me answer in a general way. Interruptible customers,
24 as Mr. Larlee was saying, can provide very significant
25 values to firm service customers, if the

2 interruptible customers are contributing something above the
3 incremental costs that they cause, and if the customers
4 are there when you need to interrupt someone to avoid
5 having to build additional capacity. In essence
6 interruptible customers can be valley fillers.

7 But you have to recognize there is two kinds of valleys.
8 There is the within the year valley which is, because of
9 the seasonal nature and the time of use nature of firm
10 demand load, there are valleys during the day and there
11 are valleys in different seasons during which
12 interruptible service can be provided, and fill up those
13 valleys. And if they are providing something in excess of
14 the incremental costs, everyone benefits.

15 There is also longer term valleys. Capacity additions,
16 generation capacity additions are lumpy. You get big
17 increases in capacity when a new generator comes on. And
18 that provides a longer term valley during which
19 interruptible customers can take nearly firm service for a
20 long period of time. And even that has value to the firm
21 customers if those customers are still there when capacity
22 tightens back up again.

23 But if you don't impose some pretty strict requirements
24 that interruptible customers stay interruptible when
25 capacity tightens up, you create this

2 incentive for them to jump in when there is big valleys and
3 jump back out again just when you need them.

4 And I think with respect to where Disco is, and as I
5 understand their contracts, you know, there is only a 12-
6 month notice. And that seems to put the firm customers at
7 some risk if the interruptible customers can switch to
8 firm on relatively short notice.

9 Q.24 - Now there has been some discussion between Mr. Larlee
10 and Dr. Rosenberg over how the adjustment to the declining
11 block rate for the residential class should be calculated.

12 Would you comment on the one-third adjustments and the
13 differences if any between Disco's and EGNB's position?

14 A. Yes. When I first read the Board's ruling I actually
15 interpreted it exactly the same way Dr. Rosenberg did. I
16 looked at the way Mr. Larlee did it. His method is
17 certainly reasonable. And it could be -- the Board's
18 interpretation could be a reasonable interpretation of the
19 Board's decision.

20 I think Dr. Rosenberg's interpretation could also be
21 perfectly reasonable. I don't really have a strong
22 opinion about which one is better. Either of them is
23 consistent with the Board's ruling.

24 And I think that the big picture is that we are taking the
25 first stage of adjusting the residential rates, which

2 is to phase out the declining block. And the difference
3 between those two is not terribly substantial.

4 MR. HYSLOP: Thank you. I didn't want to get on the record
5 that the PI was in agreement with both EGNB and Disco on
6 some point in these hearings, Mr. Chair.

7 Q.25 - Finally, assuming that we have some success with regard
8 to reducing the revenue requirement for Disco in these
9 hearings, do you have any recommendations that you would
10 make to the Board on how these reductions should be
11 applied?

12 A. I guess I would encourage the Board to be as specific as
13 possible in its directions, as a general matter, just to
14 reduce the potential for argument, one more time around
15 here.

16 Specifically I would say that if the -- as I understand
17 it, the possibility that there would be any reduction in
18 the overall revenue requirement is most likely to relate
19 to distribution costs.

20 If in fact it is only reduction in distribution costs, I
21 would make sure that the reduction in the revenue
22 requirement therefore flowed to the customers who take
23 service at distribution voltage. Because the customers
24 who take service at transmission voltage are not
25 contributing to those costs.

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2 The one other item that's in my evidence is that I looked
3 at the residential rate design. The customer charge
4 looked reasonable. The energy block charges looked
5 reasonable within the Board's guidance.

6 If in fact there is a reduction in the overall revenue
7 requirement and the residential class revenue requirement,
8 I would make sure that there is some reduction to both the
9 customer charge and the energy block charges. And those
10 ought to be split about 50/50 in terms of the revenue
11 associated with each.

12 MR. HYSLOP: Mr. Chair, that concludes my examination of
13 Mr. Knecht. And I leave him available for cross examination
14 by those parties who wish to do so.

15 CHAIRMAN: Thank you, Mr. Morrison. Would you like to go
16 first this time?

17 MR. MORRISON: That's fine, Mr. Chairman. Thank you.

18 CROSS EXAMINATION BY MR. MORRISON:

19 Q.26 - Mr. Knecht, you just talked about the discovery of the
20 \$2.1 million of understated interruptible sales.

21 A. Yes.

22 Q.27 - And I think you said that that now results in a revenue
23 to cost ratio in the interruptible class, all the
24 interruptible customers of 1.02.

25 A. That's approximately correct, yes.

1 - 5851 - Mr. Knecht - Cross by Mr. Morrison -

2 Q.28 - And I think you mention that that translates into -- it
3 is in your evidence and I believe you just mentioned it --
4 an over-recovery of approximately \$1.50 per megawatt hour?

5 A. Yes. Actually -- it is on that order, \$1.40, \$1.50.

6 Q.29 - And you don't have to turn this up but on page 15 of
7 your evidence, you recommend that a \$3 megawatt hour
8 contribution in excess of incremental generation allocated
9 transmission costs be added to the interruptible sales,
10 you are looking for a \$3 adder, if you will? Correct?

11 A. Yes, including the -- including the -- that would include
12 the 140 that is already there. It would be about \$1.60 on
13 top of that.

14 Q.30 - Okay. And you are aware, Mr. Knecht, that there is
15 already a \$9 adder on peak and a \$3 adder off peak?

16 A. The \$9 adder on peak and the \$3 adder off peak are there -
17 - yes, I am aware that they are there. My understanding
18 is that they are there to contribute to the allocated
19 transmission costs as well as any allocated overhead costs
20 that might flow through the cost allocation --

21 Q.31 - No. I am just trying to get clarification that what
22 you are recommending and what is in this \$3 adder is in
23 addition to the adders that are already in place. Is that
24 correct?

25

2 A. The full \$3 is not in addition to the adders that are
3 already in place. It is the \$1.60 to get us up to a full
4 \$3 over recovery that would be in addition to the \$3 and
5 the \$9.

6 Q.32 - Okay. I see. I was not clear. Now the \$3 adder that
7 you are proposing, do you have any mathematical basis for
8 that calculation?

9 A. A mathematical basis is the one that I gave in my direct
10 evidence and is in the prefiled evidence which is it puts
11 the class at about 105 percent revenue cost ratio and that
12 is within the 95 to 105 range. As a general matter, this
13 is an issue of judgment. It is a -- it is a opportunity
14 service. It helps other rate payers if it contributes in
15 excess of incremental costs. If it is not contributing in
16 excess of incremental costs, it is not helping everyone
17 else out. I have been in some places where I have seen,
18 you know, \$3 a megawatt hour as a contribution from
19 opportunity of service so between it being 5 percent and
20 having seen it in Alberta, it seemed like a reasonable
21 number to me but it is a judgmental factor.

22 Q.33 - And that is the point I am trying to get at, Mr.

23 Knecht, you have no cost basis for it, this is just a
24 judgment on your part? Correct?

1 - 5853 - Mr. Knecht - Cross by Mr. Morrison -

2 A. Well it's not without cost basis in that it's 5 percent of
3 the allocated costs.

4 Q.34 - But was there a cost analysis done to support that --

5 A. Yes, I looked at the -- I looked at the allocated costs to
6 the interruptible surplus customers and it was about \$60 a
7 megawatt hour. I would have to go check exactly what it
8 was but my recollection is this brought it in at about a
9 little over -- between 104 and 105 percent.

10 Q.35 - But the magnitude was something that was in your
11 judgment in terms of you chose 5 percent?

12 A. With the Board's 95 to 105 guidance, yes.

13 MR. MORRISON: Okay. Thank you. Those are all my
14 questions, Mr. Chairman.

15 CHAIRMAN: Thanks, Mr. Morrison. We will take a ten minute
16 recess. And Mr. MacNutt, can you find out from counsel
17 how long they thing they have for this witness?

18 MR. MACNUTT: I will, Mr. Chairman.

19 (Recess)

20 CHAIRMAN: Mr. MacNutt was the bearer of bad tidings. Okay.
21 Mr. Lawson?

22 MR. LAWSON: Thank you, Mr. Chairman.

23 CROSS EXAMINATION BY MR. LAWSON:

24 Q.36 - Good afternoon, Mr. Knecht.

25 A. Good afternoon, Mr. Lawson.

2 Q.37 - I would like to start questioning with respect to the -
3 - sort of the demand energy weighting issue and I believe
4 you would agree that Disco's application took fixed
5 generation costs and allocated it at 40 percent demand and
6 60 percent energy related with 100 percent allocation for
7 variable generation as energy. Is that a fair assessment
8 and consistent with the CARD decision, I believe, of
9 December?

10 A. Yes, I think so.

11 Q.38 - Okay. Now if you took the total generation costs and
12 classified what part was energy, have you taken a look at
13 that? Sort of taking the two, the fixed generation costs
14 and total variable costs, add them together to see what
15 percentage would be actually energy related, both with and
16 without the consideration of the export sales credit being
17 applied?

18 And I have done the calculation. Let me ask you, would
19 you agree it is in the order of magnitude of 80, 20 when
20 you don't consider the export credit and 85, 15 or maybe
21 the other way around -- 85, 15 after the export credit is
22 recognized and 80, 20 otherwise? Is that order of
23 magnitude familiar? If not, then I will take you through
24 some statistics which will take us a few minutes?

25 A. Rather than go through them all, I believe that I had

1 - 5855 - Mr. Knecht - Cross by Mr. Lawson -

2 done a calculation similar to that probably in the fall and at
3 least got numbers on that order of magnitude. If you
4 want, I can accept them subject to check.

5 Q.39 - Okay. Subject to check then, you would agree then that
6 it would appear as though it is about with the export
7 credit in consideration, 85 percent energy and 15 percent
8 demand. Is that right?

9 A. Again, subject to check, that does not sound completely
10 out of the range of possibility. Sounds about right.

11 Q.40 - Okay. Now just related to that, this classification,
12 this 40/60 split that was used was the same classification
13 methodology for generation costs in the 1992 decision of
14 this Board, I believe?

15 A. Yes.

16 Q.41 - Would you agree that as energy costs increase with all
17 remaining other costs remaining the same, that -- and the
18 classification methodology of 40/60 remaining the same,
19 that the proportion of costs classified as -- sorry,
20 energy costs increase -- I have written this out
21 incorrectly but let me try independent of my written
22 question.

23 As energy costs increase, that their proportion of the
24 costs will increase more significantly as a result?

25

1 - 5856 - Mr. Knecht - Cross by Mr. Lawson -

2 A. Yes, if fuel costs increase and non-fuel costs don't
3 increase, then yes, by definition the proportion -- the
4 overall proportion that is energy related will increase
5 and I think with the rise in fuel costs, you see exactly
6 that. Mr. Marois was referring I think the other day to
7 that and the implications of that.

8 Q.42 - So you would agree that a significant factor for the
9 escalation in costs are related to energy costs, fuel cost
10 increases in this case?

11 A. Certainly in the past couple of years the increase in the
12 fuel costs has been -- the increase in costs has been
13 driven by the fuel costs. Whether that's true over the
14 longer term since the last time I was here I haven't
15 studied.

16 Q.43 - No, no. I wouldn't expect that either. If my memory
17 serves me correctly it was not more than a few years ago
18 that large industrial customers were in fact at unity. Is
19 that your understanding? Or near unity, perhaps not
20 exactly at unity.

21 A. I would have to go back and check, but my recollection
22 from when I was here the time before that is the large
23 industrial customers had revenue cost ratios in excess of
24 unity, yes, so at some point it crossed back over.

25 Q.44 - Right.

1 - 5857 - Mr. Knecht - Cross by Mr. Lawson -

2 A. And I also did an analysis in my September evidence I
3 think which showed that the average revenues paid by the
4 residential class had risen much more than larger
5 industrial customers had done. So some of the change in
6 revenue cost ratios over that period were due to different
7 rate increases for different classes.

8 Q.45 - But obviously as the energy costs increase, and more
9 particularly over the last couple of years, because of
10 this energy sensitivity, if you will, to the rates for the
11 large industrial, that has driven up the costs for the
12 large industrials, is that a fair assessment? It has been
13 a significant factor?

14 A. I think that's consistent with what Mr. Marois said the
15 other day and it certainly makes sense to me.

16 Q.46 - Right. So there is a significant sensibility or
17 sensitivity I guess it is in the large industrial rates to
18 these energy costs?

19 A. Yes, I would agree with that. And as Mr. Marois said, you
20 know, all other things being equal an increase -- you
21 know, a disproportionate increase in fuel costs will tend
22 to have a larger impact on those customer classes that are
23 -- whose load is more related to energy than to demand.

24 Q.47 - Sure. And would you agree that as the proportion of
25 energy costs increase the costs allocated to a higher load

2 factor classes, such as large industrial principally,
3 increases relative to lower load factor rate classes?

4 A. I just said yes.

5 Q.48 - Yes. And I would like to refer to -- in your evidence
6 you make reference to the Quebec scenario on the revenue
7 cost ratio, and in fact you say that legislation mandates
8 retention of historical revenue cost ratios, and then you
9 indicated which exceed 115 percent for large industrial
10 customers. You have in fact testified in Quebec matters,
11 have you not, matters before the Regie in Quebec with
12 respect to these rates?

13 A. I have.

14 Q.49 - And in fact you were involved in a rate increase in I
15 believe it was 2001 -- involved in hearings with respect
16 to rate increase in 2001, is that right?

17 A. Yes, I was. Was that the generation rate proceeding?

18 Q.50 - Yes.

19 A. Yes.

20 Q.51 - And in that am I correct in understanding that you were
21 proposing a 60 percent energy and 40 percent demand
22 allocation in that case for total generation?

23 A. I believe that I did for total generation costs in the
24 context of Hydro Quebec at the time. Actually to be
25 perfectly honest, using analysis that was very similar to

2 the analysis that Ms. Chown and I presented before this Board
3 in 1991.

4 Q.52 - So that would be the equivalent to our 80 or 85
5 percent, 20 or 15 percent that we are talking about now,
6 isn't that generally correct, total generation allocation?

7 A. It would be correct that it is related to total generation
8 costs. Obviously the types of generation are very, very
9 different in Quebec than they are in New Brunswick.

10 Q.53 - Sure. No, I understand that.

11 A. So that it's not clear that that comparison is -- can be
12 taken just as it is. There is the caveat that the
13 generating mix is very different in Quebec.

14 Q.54 - Right. But I presume you would agree that to see an
15 energy classification for generation -- total generation
16 costs as high as 80 or 85 percent as we are talking about
17 here is unusually high?

18 A. I don't -- I can't say that I -- I have studied enough
19 thermal systems that have a traditional demand energy
20 split to say that this is unusual. In general it's --
21 certainly we can go dig out the evidence that Ms. Chown
22 and I filed in 1991 which in fact did a survey of all the
23 Canadian utilities and did in fact compare the demand
24 energy splits among them all, which led to our

2 recommendation in that proceeding, which was not adopted by
3 this Board.

4 Q.55 - Right. But based on what you do recall and know from
5 your experience, including that and subsequently which may
6 be fresher in your mind, for those of which you are aware
7 would you agree it is unusual?

8 A. Based on the evidence from that proceeding and probably
9 not very many utilities after that, it is a relatively
10 high mix of energy costs. In fact with the recent run-up
11 in fuel costs everyone -- as you mentioned earlier,
12 everyone's mix is increasing. I haven't done an
13 exhaustive study. The last one we did was over ten years
14 ago.

15 Q.56 - Okay. Thank you. Now just turning to interruptible
16 power, I guess you have an indicated an acknowledgement
17 there is a contribution of \$1.4 million being made towards
18 costs beyond the generation and transmission costs for
19 interruptible power now, is that right?

20 A. Based on current revenue estimates from the interruptible
21 class, yes.

22 Q.57 - Right. Okay. Now if I can just refer you to page 17,
23 the bottom of page 17, top of 18 of your report marked
24 PI-18. And just the very last sentence on the bottom of 17.
25 However if Disco deems that large customers can meet

1 - 5861 - Mr. Knecht - Cross by Mr. Lawson -

2 the proposed rates, there is no need, et cetera.

3 Now is there any evidence to which you can point us that
4 indicates that Disco has in fact deemed that customers can
5 in fact pay those rates?

6 A. No, I can't. We actually asked some questions of
7 Mr. Marois subsequent to my having read this evidence, asking
8 whether he had any information that would show that large
9 industrial customers could not afford that. And he said
10 that he did not.

11 Q.58 - Now since we are into hearsay, can I go so far as to
12 say though he probably did tell you that large industrial
13 expressed grave concern with respect to the rates that are
14 being proposed?

15 A. I don't recall that from the transcript. I do recall that
16 that was part of Disco's filing back last year as part of
17 this, that they were concerned about loss of load.

18 Q.59 - Yes.

19 A. And at the time we asked some Interrogatories on that.
20 And again there was no specific evidence.

21 Q.60 - No.

22 A. My own evidence -- as you know, having represented
23 industrial customers, I worry about loss of load. But
24 regulators generally need some hard evidence to rely on
25 when reacting to that kind of situation.

2 Q.61 - Sure. And that is I guess why I would ask you to point
3 to us any evidence that shows that indeed large industrial
4 customers can afford the proposed rates?

5 A. Well, I'm sure the attorneys will argue burden of proof
6 here. But it seems to me that if there isn't any proof
7 either way as to whether or not they can or cannot afford
8 it, then we rely on the results of the cost allocation
9 study for setting rates.

10 Q.62 - But your reference is to an assumption of an
11 acceptability of those rates, is that correct, to the
12 customer, and that mere falling back to the rate study
13 doesn't do anything to consider the impact on the
14 customers, isn't that right?

15 A. I'm sorry, I didn't understand the question.

16 Q.63 - The rate study -- you know, you have filled in the
17 mathematical consideration, it doesn't give any
18 consideration to what kind of impact the consequences
19 could have of a rate increase on those particular
20 customers, isn't that right?

21 A. That's correct. But if there isn't any evidence past that
22 then what's what we ought to rely on.

23 Q.64 - Okay. That again perhaps will be a subject for debate.
24 But we won't engage in it now.
25 Now you did acknowledge in your evidence on direct

1 - 5863 - Mr. Knecht - Cross by Mr. Lawson -

2 that there is a very significant concern that can fall out of
3 switching -- customers switching from interruptible, small
4 i as referred to this morning, interruptible power to firm
5 power, you would agree?

6 A. Yes.

7 Q.65 - And you did agree I believe also that interruptible
8 power plays an important or valuable role in filling in
9 what I think is described as two types of valleys?

10 A. What I said is interruptible can provide value if the
11 conditions that I described were met, namely that they are
12 contributing something in excess of the incremental costs
13 and in fact that they are there to be interrupted when the
14 long valley ends.

15 Q.66 - But you would agree though that they are of value, even
16 if they were not contributing anything above unity, for
17 the purposes of planning for the needs for power for Disco
18 and Genco, wouldn't you?

19 A. Yes. They are valuable if in fact Disco or Genco or --

20 Q.67 - Whoever?

21 A. -- however it's going to be defined, can rely on them
22 remaining interruptible.

23 Q.68 - That is right. Yes. Precisely. So therefore it is
24 important, you would agree, to strive to keep those

25

1 - 5864 - Mr. Knecht - Cross by Mr. Lawson -

2 customers as interruptible customers to the extent possible,
3 and not to switch to firm?

4 A. I guess I would agree with that. I might put it just a
5 little bit differently in that I would -- I would impose
6 some pretty -- restrictions requiring them to remain
7 interruptible when the long valleys end.

8 Q.69 - And obviously this is of particular concern, I would
9 assume you would agree with Disco on, with the pending
10 time of Point Lepreau shutdown for its renovations, if you
11 will, that this is of grave concern if there is a switch
12 to firm power by interruptible customers at the moment?

13 A. Yes, I would.

14 Q.70 - And I presume you don't know of anything that would --
15 you don't know whether or not large industrial customers
16 taking interruptible power will convert to firm power if
17 the cost increase goes in place that you are suggesting,
18 do you?

19 A. I have no independent knowledge regarding that other than
20 what Disco has presented.

21 Q.71 - But you agree the potential would be pretty significant
22 to Disco and to its customers?

23 A. I believe it could. I don't -- I haven't seen any
24 quantitative analysis of it. I understand that they
25 cannot convert if capacity actually needed to be built to

2 serve them, which means at least the lights will stay on.

3 There could be economic impacts as you push your way up
4 the merit order, meaning that the fuel costs will be that
5 much higher for all customers.

6 Q.72 - Right. For all customers. And therefore I assume that
7 given this potential adverse affect such a change to firm
8 power could have on Disco, wouldn't you agree that it's
9 logical to study the affects of any further changes being
10 added to interruptible power before imposing any of those,
11 rather than acting on fairly quick notice without really a
12 comprehensive review of the issue?

13 A. The issue I think that needs the study is the ability of
14 customers to switch to firm service with very little
15 notice, and I would agree that that requires some
16 significant study.

17 Q.73 - But wouldn't you agree that one should know what kind
18 of an impact that this -- any increase in interruptible
19 power may have on customers and their switching to firm
20 power before you impose that kind of an increase?

21 A. Well it depends on what kind of an increase we are talking
22 about here. My proposal here is so modest that I would be
23 very surprised if it would have a significant impact on
24 the interruptible customer's decision. That decision is
25 going to be driven much more by their

1 - 5866 - Mr. Knecht - Cross by Mr. Lawson -

2 expectation for being interrupted and their expectation for

3 incremental fuel costs, the effects both of which will

4 dwarf a dollar and a half a megawatt hour contribution to

5 fixed costs.

6 Q.74 - But the consequences of taking that chance are pretty

7 profound, are they not?

8 A. I don't believe --

9 Q.75 - The potential consequences?

10 CHAIRMAN: Mr. Lawson, that's the third time you have re-

11 emphasized that. I think we have got the point.

12 MR. LAWSON: Thank you, Mr. Chairman.

13 CHAIRMAN: Mr. MacDougall?

14 MR. MACDOUGALL: Thank you, Mr. Chair and Commissioners.

15 CROSS EXAMINATION BY MR. MACDOUGALL:

16 Q.76 - Good afternoon, Mr. Knecht.

17 A. Good afternoon, Mr. MacDougall.

18 MR. MACDOUGALL: Mr. Chair, I only have about 10 or 12

19 prepared questions. So I shouldn't be that long.

20 However, Mr. Knecht did raise what he calls some form of

21 progress matrix this morning that we had not seen before.

22 And it is in relation to a portion of ENGB's evidence,

23 that of Dr. Rosenberg. So I may have to spend a few

24 minutes on that as well.

25 CHAIRMAN: You can have the time it takes.

1 - 5867 - Mr. Knecht - Cross by Mr. MacDougall -

2 MR. MACDOUGALL: Thank you.

3 CHAIRMAN: I'm not saying whether it is all today or over to
4 Monday or whatever. But you certainly can have your time.

5 MR. MACDOUGALL: We will certainly try to get through it
6 today, Mr. Chair.

7 Mr. Chair, I just want to start by handing out one
8 document that I would like to have marked as an exhibit
9 and that I would like to ask a couple of questions of
10 Mr. Knecht on.

11 And, Mr. Chair, with the exception of a few other
12 references, this is the only document that isn't currently
13 in the records. So maybe we could just give this a
14 exhibit number.

15 CHAIRMAN: It is another excerpt from the Bible.

16 MR. MACDOUGALL: Yes.

17 WITNESS: This appears to be the older Bible as opposed to
18 the revised standard version.

19 MR. MACDOUGALL: The is the Old Testament, Mr. Chair.

20 CHAIRMAN: We are all referring to Bonbright's book. And
21 this will be ENGB-16.

22 MR. MACDOUGALL: Thank you, Mr. Chair.

23 Q.77 - Now, Mr. Knecht, if we could go to your evidence. I'm
24 sorry. I actually don't have the reference. But it is
25 Mr. Knecht's evidence, page 5, line 18.

1 - 5868 - Mr. Knecht - Cross by Mr. MacDougall -

2 A. Yes, sir.

3 Q.78 - And on page 5, line 18 you state that of the
4 traditional rate design criteria, the most common non-cost
5 considerations in the revenue assignment process are a)
6 the principle of gradualism or avoidance of rate shock in
7 which large rate increases for individual customers or
8 classes of customer are avoided, and b) the value of
9 service principle. Correct?

10 A. Yes.

11 Q.79 - If we could go to Professor Bonbright's text, exhibit
12 EGNB-16. And if we could go to page 291 which is the
13 second page.

14 I just want to read out the top sentence there that says,
15 The sequence of the eight items is not meant to suggest
16 any order of relative importance.

17 And then he lists what is known as "Criteria of a
18 Desirable Rate Structure", correct?

19 A. Yes.

20 Q.80 - And number 8 is "Efficiency of the Rate Classes and
21 Rate Blocks in Discouraging Wasteful Use of Service While
22 Promoting all Justified Types and Amount of Use", correct?

23 A. Yes.

24 Q.81 - And then at the bottom you will see a reference that
25 says "Three Primary Criteria." Do you see that?

1 - 5869 - Mr. Knecht - Cross by Mr. MacDougall -

2 A. Yes.

3 Q.82 - And if we could go over to the next page, the first
4 full paragraph. And that paragraph starts "Among these
5 objectives three may be called primary, not only because
6 of their widespread acceptance but also because of the
7 more detailed criteria are ancillary thereto." Do you see
8 that?

9 A. Yes.

10 Q.83 - And of what Professor Bonbright calls the three primary
11 criteria, could you read in number (c), the third primary
12 criteria from Professor Bonbright?

13 A. (c), the optimum use or consumer rationing objective under
14 which the rates are designed to discourage the wasteful
15 use of public utility services while promoting all use
16 that is economically justified in view of the
17 relationships between costs incurred and benefits
18 received.

19 Q.84 - Thank you. And of those three primary criteria,
20 including looking at number (a) and (b) as well as number
21 (c), none of those three primary criteria from Professor
22 Bonbright are either of the two, what you call most common
23 non-cost considerations in the revenue assignment process,
24 are they?

25 A. Well, let me point out you are comparing apples and

2 oranges. First off, of the three primary criteria, the first
3 two are cost-related. So therefore by definition they are
4 not non-cost.

5 The second thing that I would point out that you are --
6 where you are comparing applies and oranges is this
7 section of my evidence relates only to the part of the
8 rate design process which is allocating the revenue
9 requirement between the rate classes.

10 And I view that the overall process of rate design to
11 which the Bonbright text relies as three significant
12 steps. One is the allocation of costs to the rate classes
13 in the cost allocation study. The second is the
14 allocation of the revenue requirement to each of the rate
15 classes. And that's the criteria that I was talking about
16 in this step. And the third step is the design of the
17 rates within each rate class.

18 In the Bonbright text he is designing rates. He is laying
19 out these objectives for all three steps. The portion of
20 my testimony or my evidence that you quoted relates only
21 to the second step.

22 Q.85 - And that is fine, Mr. Knecht. That is what I wanted to
23 get clear. And you would acknowledge though that of the
24 three primary criteria that Dr. Bonbright sets out with
25 respect to the overall process, one of what he calls the

2 primary criteria, is the efficiency of the rate classes and
3 rate blocks in discouraging wasteful use of service,
4 correct?

5 A. He does. And he also specifies I believe here in part (b)
6 fair cost, a fair -- the fairness or equity standard for
7 allocating the revenue requirement between the rate
8 classes.

9 Q.86 - Correct. Thank you very much. Now go to page 3 of
10 your evidence, line 7. Here you say, while it may
11 reasonably be argued that these fuel costs are more
12 related to either peak demand or seasonal energy than they
13 are to annual energy, they are not related only to demand
14 by electric heat customers.

15 For the record could you just indicate what fuel cost you
16 are referring to there?

17 A. This is the CT costs that I discussed in my direct
18 evidence this morning.

19 Q.87 - Correct. This is just the CT costs -- or is it the CT
20 costs and the emergency purchases?

21 A. I believe it's the whole pool.

22 Q.88 - Okay. Great. Thank you. So you do not disagree that
23 such fuel costs are more related to peak demand or
24 seasonal energy?

25 A. I would not disagree with that. That interpretation

2 might not be consistent with the Board's methodology.

3 Q.89 - Yes. But you don't disagree with it?

4 A. I would probably not. If I only looked at those costs and
5 particularly it was in a marginal cost framework, everyone
6 who is contributing when those costs are on, should be
7 paying for those costs. And if you are only consuming
8 when those costs are not being incurred, then you should
9 not necessarily contribute to them.

10 Q.90 - Sure. And I'm not --

11 A. So there is a philosophy of cost allocation issue here and
12 there is the Board's ruling on what that cost allocation
13 methodology should be.

14 Q.91 - Sure. And I agree with that and I'm not going to your
15 underlying point. I just wanted to come back just to make
16 sure. You do not disagree that those types of fuel costs
17 are more related to peak demand or to seasonal energy?

18 A. As a theoretical matter I would not disagree with that.

19 Q.92 - Good. Thank you. And would you concur that for Disco
20 oil and gas fuel costs are distinctly weighted to the peak
21 winter months?

22 A. Yes, I would. I think one of the issues that -- as a
23 caveat to that I would say is that -- you know, is that
24 the oil costs are -- a significant amount of the winter

1 - 5873 - Mr. Knecht - Cross by Mr. MacDougall -

2 related oil costs are related to the high oil costs at Coleson
3 Cove, which at least at one point I believe NB Power had
4 hoped to mitigate anyway through the use of Orimulsion.

5 Q.93 - Sure. But certainly the data that is shown -- and I
6 don't think we have to go to the IR responses, we could --
7 I mean, you would concur that for Disco oil and gas fuel
8 costs are distinctly weighted to the peak winter months
9 under the current structure?

10 A. I would agree, yes.

11 Q.94 - Thank you. And there is a more pronounced distinction
12 for oil and gas fuel costs in the winter months for either
13 coal, Pepcoke or Orimulsion, correct?

14 A. The -- I think that was -- I'm not sure how that question
15 is different from the first one.

16 Q.95 - I'm just comparing it to the other fuel costs that are
17 not as pronounced in the winter months, correct? Again I
18 can bring you to the --

19 A. Certainly the fuel costs as currently incurred by Genco in
20 the winter are higher than they are in -- they are higher
21 in the winter than they are in the non-winter period
22 because there is a higher proportion of the higher cost -
23 -oil and gas costs, yes. That's not --

24 Q.96 - Good. Thank you.

25

1 - 5874 - Mr. Knecht - Cross by Mr. MacDougall -

2 A. That's certainly correct.

3 Q.97 - But just so that we are all clear on this and for the
4 Board's record, in the CCAS all of the fuel costs are
5 allocated on the basis of annual energy, correct?

6 A. That's correct.

7 Q.98 - So currently the CCS reflects no seasonal
8 differentiation in the allocation of the fuel cost?

9 A. It does not.

10 Q.99 - Thank you. And if we could go to -- still on page 3,
11 line 25. And here you have noted just in going through
12 your review of Mr. Larlee's approach to CCAS, that Disco
13 has classified the export sales credit as 100 percent
14 demand related consistent with the CARD ruling, correct?

15 A. Yes.

16 Q.100 - And Disco itself had proposed this classification in
17 its evidence, correct, from the CARD ruling?

18 A. Yes. For this specific component, yes.

19 Q.101 - Yes. For that component. But at the time they had
20 proposed that they had also proposed that the generation
21 fixed costs for Genco be classified 100 percent demand,
22 correct? I'm just talking about what they actually
23 proposed?

24 A. They had proposed that part of the PPA from Genco that was
25 demand related be classified as a -- I'm sorry. Can

1 - 5875 - Mr. Knecht - Cross by Mr. MacDougall -

2 you repeat your question?

3 Q.102 - Yes. I just said that Disco had at the same time they

4 proposed the export sales credit as 100 percent demand

5 related they had proposed that the generation fixed costs

6 for Genco, not for Nuclearco, also be classified 100

7 percent demand, of course they were basing it on the PPA?

8 A. The only reason I am hesitating, Mr. MacDougall, is there

9 was a piece of the Genco cost that was split 60/40. The

10 O&M -- the fixed O&M cost was split 60/40. So when you

11 say Genco fixed costs, I'm having trouble saying that they

12 were all -- that they were all demand related.

13 Q.103 - The generation fixed costs.

14 A. But yes, I agree that the export sales credit and the --

15 or I'm sorry -- that the -- that there was a different --

16 within Disco's overall proposal was a different

17 classification of generation costs than that which was

18 subsequently adopted by the Board.

19 Q.104 - Okay. And this ruling -- and again just to get

20 clarity so that we are all on the same page, this benefits

21 the residential class in that there were less cost charged

22 to demand under what the Board ruled and the full export

23 credit goes to demand, correct?

24 A. This methodology will assign a greater proportion of the

25 credit to the residential class than other

2 methodologies, such as an energy or a demand energy split.

3 Yes, that's correct, within the cost allocation study.

4 Q.105 - Great. Thank you very much. And then if you could go

5 to page 8 in the footnote. And I think you referred to

6 this this morning. So I won't go into it in any great

7 detail.

8 You indicated that you and Ms. Chown have presented

9 evidence when you were here previously in support of the

10 cost offset approach, correct, with respect to the export

11 credit?

12 A. We did. We did for the reasons that I explained in my

13 direct evidence.

14 Q.106 - Yes. And I won't come back to that.

15 So would you agree that off system revenue should go to

16 offset the cost of native load?

17 A. I'm struggling with how to answer that. Because I don't

18 know whether we are talking about as it should apply only

19 to NB Power or as a general rule of regulation or --

20 Q.107 - Let's start as a general rule of regulation and then

21 go to NB Power.

22 A. As a general rule of regulation it would depend on the,

23 you know, regulatory -- the legal and regulatory structure

24 of the jurisdiction.

25 In general it has been my experience with traditional

1 - 5877 - Mr. Knecht - Cross by Mr. MacDougall -

2 regulated utilities that if they earn revenue from off system
3 sales of some form there is either a sharing or a credit
4 of those revenues with the franchised ratepayers.

5 Q.108 - Thank you very much. And now if we can go to page 6,
6 line 8 -- I'm sorry, line 18, Mr. Knecht. So page 6, line
7 18?

8 A. Yes, sir.

9 Q.109 - Here you say "In the present circumstances in New
10 Brunswick a number of factors militate against assigning a
11 very low rate increase to large industrial customers",
12 correct?

13 A. Yes.

14 Q.110 - And from Appendix A-121 which was the update of
15 Disco's material, my understanding is Disco is proposing a
16 rate increase to the large industrial class of 12.1
17 percent, correct?

18 A. Yes. Let me -- just to clarify, this paragraph is a
19 paragraph -- this question and answer within my evidence
20 was one that was excerpted from my September evidence.

21 Q.111 - Okay.

22 A. So it was -- this particular sentence was in the context
23 of the proposed increase at the time, which I believe was
24 zero for the large industrial class.

25 Q.112 - Okay. But now we are in this phase. So I want to get

1 - 5878 - Mr. Knecht - Cross by Mr. MacDougall -

2 this very clear for the Board. You are not saying to this
3 Board that a 12.1 percent increase is a very low rate
4 increase are you?

5 A. No, I'm not.

6 MR. MACDOUGALL: Thank you. If you just give me a moment,
7 Mr. Chair, I will knock out a few questions. It is
8 getting towards the end.

9 CHAIRMAN: I'm in favor of that, Mr. MacDougall.

10 Q.113 - If we could go, Mr. Knecht, to page 6, line 28. Here
11 again you are talking about large industrial customers.
12 And you were talking about the allocation of cost.
13 In the very last line you used an example from Quebec.
14 You say in fact in Quebec the enabling legislation
15 mandates retention of historical revenue to cost ratios
16 which exceed 115 percent for large industrial customers?

17 A. Yes.

18 Q.114 - Could you tell us what the absolute rate is for
19 electricity for large industrial customers in the province
20 of Quebec?

21 A. I believe you asked me this last fall on the same quote
22 from the same evidence. I don't know exactly what it is
23 for large industrial customers. And I would have to go
24 look it up. It's --

25 Q.115 - Order of magnitude?

1 - 5879 - Mr. Knecht - Cross by Mr. MacDougall -

2 A. -- probably on the order of 40 to \$50 a megawatt-hour when
3 you add in the transmission costs which are relatively
4 high and the mandated revenue to cost ratio.

5 Q.116 - Sure. 4 to 5 cents a kilowatt-hour?

6 A. 4 to 5 cents a kilowatt-hour, yes --

7 Q.117 - Thank you.

8 A. -- should be ball park, subject to check.

9 Q.118 - Sure. And are you aware that jurisdictions have
10 contract rates for industrials?

11 A. Yes.

12 Q.119 - And those contract rates don't usually show up in
13 revenue-cost ratios in jurisdictions where they exist?

14 A. They don't -- they tend not to show up in revenue to cost
15 ratio calculations. The issue is whether -- if there is a
16 discount for contract rates that's being borne by the
17 utility, or in the case of a provincially-owned utility by
18 the Province or whether it's being borne by the other
19 ratepayers. That I think can vary significantly.

20 Q.120 - Thank you very much.

21 And just before we go to the progress metric questions
22 which will be my last questions, Mr. Knecht, I just have
23 one question before that. Page 17, line 8. I guess it
24 starts on line 7, you say it is relatively common for
25 customer charges to be modestly, and then you say, or

1 - 5880 - Mr. Knecht - Cross by Mr. MacDougall -

2 sometimes significantly below customer costs?

3 A. Yes.

4 Q.121 - Could you explain why sometimes customer costs can be

5 significantly below their actual costs -- why customer

6 charges can be significantly below their customer costs?

7 A. I believe that in my experience the reason that you see

8 that is that ratepayer advocates, particularly for the

9 residential class in the United States, and public utility

10 commissions in the United States, are looking at the

11 customer charge as a lower customer charge to provide a

12 little break to lower income customers, and therefore they

13 are willing to set that charge below cost as a -- almost

14 for policy reasons.

15 You see customer charges well below customer costs much

16 more frequently in the United States than you do in

17 Canada.

18 Q.122 - Thank you, Mr. Knecht. That's what I thought was

19 their reasoning. Now, Mr. Chair, I just have a few

20 questions arising from the document that Mr. Knecht put

21 forward this morning, and I think that was -- if I have

22 got it correct, PI-24. It's his so-called Progress Metric

23 Analysis and I think he has used some of Dr. Rosenberg's

24 proposals.

25 Just a couple of -- just to give us a couple of

1 - 5881 - Mr. Knecht - Cross by Mr. MacDougall -

2 starting points, Mr. Knecht. Again if I looked at exhibit A-
3 121 which again was the update to Disco's evidence. and So
4 it was the update to the table 1 of Disco's revenue
5 requirement evidence, so it's Appendix -- or it's exhibit
6 A-121, page --

7 A. Give me a minute, Mr. MacDougall. I had it handy. There
8 it is.

9 Q.123 - It would be page 3 of that appendix which is the
10 updated Table 2 of Mr. Marois' evidence.

11 A. Yes, sir. I have it now.

12 Q.124 - When I'm looking at that, you have a column here that
13 says RC Ratio at present rates. However, we look at
14 column 1 of Disco's appendix, it says revenue to cost at
15 July 7, 2005, rates, which is again the present rates, yet
16 we see that all of the RC ratios are different. I just
17 want to make sure that we get this clear.

18 In Disco's table they are only recovering 91 percent of
19 their costs at present rates. So when you say present
20 rates here you must have done something though to get the
21 total up to 100 percent and to get the RC ratios changed,
22 because at present rates these aren't Disco's RC ratios.
23 So maybe you can explain to us what you did there and why
24 you used the word present rates?

25 A. Yes. The first column in my exhibit PI-24 is

1 - 5882 - Mr. Knecht - Cross by Mr. MacDougall -

2 comparable to Column 2 in Disco's exhibit. What I call an RC
3 ratio at present rates I should have said that that's what
4 I described as normalized revenue cost ratios such that
5 all the revenue cost ratios are adjusted so that overall
6 they are at 100 percent. It's essentially the same
7 calculation as that presented by Disco in Column 2.

8 Q.125 - Okay.

9 A. So that when we are comparing present rates to proposed
10 rates we are only looking at progress towards cost based
11 rates on, as Mr. Marois said, an apples to apples basis.

12 Q.126 - Sure.

13 A. So this is more comparable to Columns 2 and 3 than to
14 Column 1.

15 Q.127 - Yes. So your Column 1 though here at present rates
16 already has built into it an average increase of 11.4
17 percent for all those customers, correct?

18 A. You can describe it that way or you could describe it as a
19 normalization of the revenue to cost ratios such that the
20 revenue requirement is deemed only to be the revenues that
21 are actually collected at the time.

22 Q.128 - Sure. But the way I described it isn't incorrect. It
23 already has that average rate increase built in?

24 A. You could describe it either way.

25

1 - 5883 - Mr. Knecht - Cross by Mr. MacDougall -

2 Q.129 - Thank you very much. Now I note when I look at

3 Disco's table that they never break the large industrial

4 class out. But here you did break the large industrial

5 class out because you said earlier today for the same

6 reason Dr. Rosenberg talks about more information being

7 better you thought you would do that, correct?

8 A. There is actually two reasons there. I have done two

9 things that are different from what Disco did. One, I

10 split out -- I took the interruptible/surplus customers

11 out entirely, and then the second is I broke the large

12 industrial into distribution voltage and transmission

13 voltage.

14 Q.130 - Sure.

15 A. The latter segregation I did for the reasons consistent

16 with what Dr. Rosenberg said. The former was for more

17 fundamental reasons related to the different character of

18 the service.

19 Q.131 - Sure. But just so that we know here, comparing it to

20 the one rate class that we have of large industrial, you

21 don't have surplus or interruptible here and now you are

22 breaking it into two distinctions which are not

23 distinctions in the actual rate class that Disco is

24 charging its rates to, correct?

25 A. Yes. They are not distinctions in the rate class and

2 I have split them out, yes.

3 Q.132 - Okay. But you didn't split out the residential even
4 though Disco always shows the residential. How come since
5 that has been showing as being split out all the time you
6 didn't do it either the first time around in your evidence
7 and you didn't do it in either of these exhibits, if you
8 were trying to show more information? Why did you neglect
9 to continue doing that consistent?

10 A. Honestly I actually don't have an awful lot of confidence
11 at this point in the split between the electric and the
12 non-electric heat. I don't think there was anything
13 malicious in my not including it. I just don't -- some of
14 the splits that Disco has there were subject to some
15 debate in the fall proceeding about how seasonal customers
16 got included in electric heat in one place and not
17 included in another. There has been a fair amount of
18 evidence I think both in this proceeding and the last
19 proceeding that it's a little bit of an arbitrary
20 distinction about which customers are where. I -- you
21 know, if it would help I would certainly be happy to make
22 versions of these exhibits, you know, with that
23 distinction, with those caveats?

24 Q.133 - No. I don't think I need it. I just want to try and
25 get clear on the record what it is that you had been

2 showing here.

3 A. I have some concerns about the level of detail in Disco's
4 study regarding those two, but, you know, perhaps I should
5 have.

6 Q.134 - Maybe if we could now look at large industrial
7 distribution and transmission, and Dr. Rosenberg didn't
8 distinguish between those classes in his recommendations,
9 correct?

10 A. That's correct.

11 Q.135 - Okay. So it's hard for me to compare anything that he
12 said to what is here because you have broken the two up,
13 one that's at 100 percent and the other at 87.57. But if
14 we could just turn to EGNB-7, just to try and get some
15 clarity on this.

16 A. EGNB-7 is?

17 Q.136 - Is response to undertaking March 2006?

18 A. I may not have it.

19 Q.137 - Maybe your counsel could provide you a copy. Because
20 I think you should take a look at it.

21 MR. HYSLOP: I do not have that exhibit with me,
22 Mr. MacDougall.

23 MR. MACDOUGALL: EGNB-7, response to transcript reference
24 March --

25 A. I have it.

1 - 5886 - Mr. Knecht - Cross by Mr. MacDougall -

2 Q.138 - You have it? And here I just wanted to see -- there
3 were some questions asked to Dr. Rosenberg. Because in
4 his evidence he hadn't broken up how he was going to
5 allocate the \$8.7 million.

6 And here he does say that he would propose applying 4.4
7 million to the small industrial class in recognition of
8 the greater RC ratio of this class. The remainder of the
9 4.3 million would be used to moderate the increase to the
10 large industrial class?

11 A. Yes.

12 Q.139 - When you did your progress metric here, did you
13 allocate all of the 8.7 million to the large industrial
14 class? Or were you aware of this response and only
15 allocated the 4.3 million?

16 A. What I did to create this table is I took the specific --
17 I took the specific tariff charges that Dr. Rosenberg
18 proposed for the residential class and I believe the
19 General Service class -- no, I'm sorry, just for the
20 residential class.

21 And I determined -- and I set the GS I class to zero as he
22 proposed. Then I calculated on what was left.

23 Q.140 - Yes.

24 A. And I didn't actually get the 8.7 million that
25 Dr. Rosenberg has here. I got about 9.5 million. So I

1 - 5887 - Mr. Knecht - Cross by Mr. MacDougall -

2 took that 9.5 million. And I did use his response.

3 And I assigned the 4.4 million to the small industrial
4 class to get it to 95 percent revenue to cost ratio which
5 is what Dr. Rosenberg proposed. And then I assigned the
6 residual to the large industrial class.

7 Within the large industrial class, to keep this exhibit
8 consistent with the prior exhibit and have the split, I
9 simply did a pro rata sharing of that based on current
10 revenues.

11 Q.141 - Okay. So what you did was pro rata split between two
12 parts of the large industrial class which Dr. Rosenberg
13 didn't do and which Disco doesn't do.

14 And you allocated a number greater than what Dr. Rosenberg
15 said he was allocating, because your math didn't come out
16 correct, correct?

17 A. Well, I don't know how Dr. Rosenberg got the 8.7 million.

18 Because when I put his specific figures into the billing
19 determinants for the residential class I seemed to be
20 getting more revenues than he was predicting.

21 Q.142 - But you did allocate those extra revenues in preparing
22 this?

23 A. That was my best understanding of how Dr. Rosenberg's
24 logic would work. Because he said he targeted the small
25 industrial class at 95 percent revenue to cost ratio.

1 - 5888 - Mr. Knecht - Cross by Mr. MacDougall -

2 Q.143 - Sure. And I guess did you hear Mr. Harrington's
3 evidence today that EGNB's primary interest is in sending
4 the correct price signals to the residential and the GS
5 classes?

6 A. Yes.

7 Q.144 - Okay. So if the Board wanted to reallocate the 8.7
8 million here, for example, if they wanted to use some of
9 that money to reduce, for example, the wholesale class
10 which is at 105, in the same way that Dr. Rosenberg said
11 you could do with the small industrial class, the Board
12 could certainly do that, correct?

13 A. Yes.

14 MR. MACDOUGALL: Could you just give me a minute, Mr. Chair.

15 I just have a couple of other questions.

16 Q.145 - And here I just want to try and get this progress
17 metric correct in everybody's mind to just see what
18 happens here. I think this clarity may be useful.
19 In your progress metric what you are actually looking
20 first off is movement to unity. You are not comparing any
21 movement here to within the Board-approved 95, 105 range
22 are you?

23 A. Yes. I thought about that. And you could certainly make
24 a reasonable case for trying to measure the progress
25 metric that way.

1 - 5889 - Mr. Knecht - Cross by Mr. MacDougall -

2 But in general, even when you are within the 95 to 105
3 range, and you have some confidence in your cost
4 allocation study, I still think some progress towards
5 unity has value. And therefore I did it based on unity,
6 yes.

7 Q.146 - Sure. But the Board has actually allowed Disco a
8 range between 95 and 105. And progress towards getting to
9 95 is obviously something that the Board considers useful,
10 correct?

11 A. Yes.

12 Q.147 - Thank you. And now just to be even clearer, what you
13 have then done is you have taken how far a class is
14 coming, right?

15 And you have taken the percentage in the change from how
16 far from unity it is, correct?

17 A. Yes.

18 Q.148 - So that means that a class that starts farther from
19 unity, correct --

20 A. Yes.

21 Q.149 - -- would obviously need a much larger increase to have
22 a higher progress metric, correct, because they are coming
23 from a farther distance?

24 A. And I would argue that that would be more appropriate.

25 Because they are farther away. And therefore you should

2 be giving them a larger increase. If you have a class at 94

3 percent and you have a class at 88 percent, to give them

4 both the same increase doesn't make much since. And it

5 will not make as much progress towards cost-based rates.

6 Q.150 - Yes. But you cannot -- if you are farther away, to

7 get an equivalent progress metric, you have to have a much

8 higher increase, correct? That is just mathematically the

9 way it works?

10 A. "Much" is a subjective determinant. You take the word

11 "much" out of that, I will agree with you.

12 Q.151 - Okay. You have to -- depending on how far away you

13 are, you have to have a bigger increase to have a bigger

14 progress metric, correct?

15 A. That's exactly right. And that's exactly the point.

16 Q.152 - So those classes that are farther away would not be

17 expected to have as high a progress metric unless they had

18 a larger increase, correct?

19 A. Yes.

20 MR. MACDOUGALL: Thank you very much. Mr. Chair, that's all

21 my questions. I don't think I have beat Mr. Lawson but I

22 think I beat my own estimate.

23 CHAIRMAN: Yes. I think you did too. Thank you, Mr.

24 MacDougall. Mr. Gorman, do you want to ask your questions

2 from there?

3 MR. GORMAN: Sure. That might save some time. And since I
4 estimated five minutes don't expect that I will achieve
5 the same level of savings. In fact I was going to ask
6 whether or not I can have the time they didn't use.

7 CHAIRMAN: The answer is no.

8 CROSS EXAMINATION BY MR. GORMAN:

9 MR. GORMAN: I rather suspected that. And before I ask my
10 questions, I remember Mr. Morrison on the 14th of February
11 wished everybody a Happy Valentine's Day. So I would like
12 to wish everybody a Happy St. Patrick's Day tomorrow. Now
13 that we have got that in and that's part of my five
14 minutes.

15 Mr. Knecht, if I could take you to page 9 of your report,
16 and I'm referring to the table on page 9, and I want to
17 refer you to large industrial firm transmission, and I
18 just want you to explain how you got there, how you got
19 that number. I understood from your response to Mr.
20 MacDougall that the cost offset numbers in your table came
21 from one of the tables in Mr. Marois' evidence?

22 A. All the figures in this table are from the CCA, yes.

23 Q.153 - Okay. So where did those numbers -- in the cost
24 offset method, the first column, where did those numbers
25 come from?

1 - 5892 - Mr. Knecht - Cross by Mr. Gorman -

2 A. They were from the company's CCAS that I have an
3 electronic version of. I needed to probably do some
4 calculations to get the revenue cost ratios to split out
5 between the large industrial -- distribution and large
6 industrial firm transmission. But the numbers are all
7 available within the study to do that calculation.

8 Q.154 - So in breaking down between large industrial
9 distribution and large industrial firm transmission what
10 did you do with the interruptible? Is there some
11 difference with respect to what is in the Disco report and
12 yours with respect to interruptible? Did you do something
13 different?

14 A. Yes. I did two things different. Mr. Marois' table
15 reports the entire large industrial class which includes
16 distribution voltage firm, transmission voltage firm and
17 interruptible/surplus. I took interruptible/surplus out
18 entirely from this calculation and then I split the firm
19 customers into distribution voltage and transmission
20 voltage.

21 Q.155 - Okay. And that resulted -- and if I go down to the
22 large industrial firm transmission using the cost offset
23 method in 89.9 percent revenue to cost ratio?

24 A. Yes, sir.

25 Q.156 - And when you didn't take the interruptible out and if

2 you put the two together going to table 2, my understanding is
3 it would have been at .91. So it's actually two percent
4 less, would that be correct?

5 A. Yes, that's true, because the interruptible classes as we
6 discussed under Disco's proposal is slightly above 100
7 percent, 102 percent or so. So when you take that factor
8 out it lowers the overall average.

9 Q.157 - Okay. So would it be fair to say then that your
10 evidence would be that based on the CCAS that has been
11 filed for large industrial firm transmission taken
12 separately that their revenue to cost ratio if approved at
13 the present level would be 89.9 percent?

14 A. Yes. Using the cost offset method, yes.

15 Q.158 - Mr. Knecht, I would like to take you to page 11 of
16 your evidence. And I'm looking at the first full
17 paragraph after your table RDK-2, and I'm referring to the
18 last sentence which says, despite the above system average
19 rate increase for the residential class, Disco is not able
20 to make significant progress towards cost base rates for
21 General Service customers primarily because relative
22 little progress was made by firm large industrial
23 transmission customers. Do you see that?

24 A. Yes.

25 Q.159 - Do you agree that that would hold true for any class

2 with a revenue to cost ratio over unity?

3 A. Would I agree that the ability of Disco to -- yes, I would
4 agree that the ability of Disco to get any rate class that
5 is above unity closer to unity is constrained by the
6 progress towards cost base rates of the large industrial
7 class.

8 Q.160 - Thank you. Now I'm going to take you to page 18 of
9 your report. And at the top of page 18 you say, Second,
10 it is my understanding that any reduction in the revenue
11 requirement will likely relate to distribution costs which
12 are not allocated to large industrial transmission
13 customers. Since those customers will not see any cost
14 reduction associated with any adjustment they need not
15 share in the revenue reduction. Similarly wholesale
16 customers should also not see reduced rates as a result of
17 any such change. Do you see that?

18 A. Yes.

19 Q.161 - What about the hydro savings this year if in fact they
20 are applied to the test year, should all customers in that
21 case not share?

22 A. If there is a savings in generation costs I believe that
23 all rate classes should share.

24 MR. GORMAN: Thank you. I have no further questions.

25 CHAIRMAN: Thank you, Mr. Gorman. Mr. MacNutt, you don't

2 have any questions do you?

3 MR. MACNUTT: Board staff have no questions for this

4 witness, Mr. Chairman.

5 CHAIRMAN: Okay.

6 BY THE BOARD:

7 MR. BELL: Good afternoon, Mr. Knecht.

8 A. Good afternoon.

9 MR. BELL: On your proposition that interruptible customers
10 had value, if they contribute something greater than their
11 marginal cost, or rather incremental cost, and secondly
12 cannot move readily back and forth between interruptible
13 and firm, I understood earlier -- on short notice rather --
14 -- and I understood earlier from evidence from Disco that
15 there was at least a one year requirement to notify if
16 there is a change, would that be in your opinion be an
17 unreasonably short notice?

18 A. Yes.

19 MR. BELL: It would be?

20 A. Yes.

21 MR. BELL: What would you have in mind as a reasonable
22 notice?

23 A. I don't know that I have a definite answer to that.

24 And I wish I could say that I went and studied everybody
25 else's rules, but you know big capacity valleys,

1 - 5896 - Mr. Knecht - By the Board -

2 particularly in a place with a relatively small overall load
3 like New Brunswick can last a long time. You know, three
4 years, five years, I think would be -- would provide the
5 utility with some planning benefits.

6 MR. BELL: Thank you.

7 DR. SOLLOWS: Yes. I want to refer to EGNB-16, which is the
8 photocopy of the Bible according to Bonbright. And I was
9 looking at page 292, actually Vice-Chairman Nelson pointed
10 this out to me. The three principal ones that Mr.
11 MacDougall pointed out to you, reading the first one it
12 says, "(a) the revenue-requirement or financial-need
13 objective, which takes the form of a fair-return standard
14 with respect to private utility companies." Now, we
15 aren't dealing with a private utility company. And so is
16 there any place in Bonbright where we would find specific
17 reference to the fair-return standard for publically-owned
18 utility companies?

19 A. I don't know.

20 DR. SOLLOWS: Well that is a short and quick answer. Thank
21 you.

22 A. The return for publically-owned companies is not one of
23 my areas of expertise, with the proviso that almost
24 anybody can find something in Bonbright that he likes.

25 CHAIRMAN: Either the Old or the New Testament. Those are

2 all the questions, Mr. Knecht. Thank you for your testimony.

3 MR. KNECHT: Thank you, Mr. Chairman.

4 MR. MORRISON: Mr. Chairman, before we close off for the
5 day, if we could have a few minutes. We have some more
6 undertaking responses we would like to get on the record.

7 They haven't been delivered to the Board Secretary yet.

8 So if we had five minutes to get the paperwork
9 straightened out, we could get those on the record.

10 CHAIRMAN: You can put them on the record on Monday. The
11 record will not close. Now, Mr. Hyslop, I didn't give you
12 the opportunity of redirect. Do you have any, sir?

13 MR. HYSLOP: This panel and this Board and the participants
14 will be eternally thankful to Professor O'Rourke, who has
15 informed me I have no redirect.

16 CHAIRMAN: I knew that he would come up with something
17 sensible.

18 MR. MORRISON: Mr. Chairman, the only reason I thought we
19 would try to get them on today in the event that some of
20 the Intervenors can get these for final argument
21 preparation and so on. So it would take a couple of
22 minutes.

23 CHAIRMAN: Yes. All right. But I won't require -- I won't
24 require anybody who doesn't want to to stay. I will
25 stay.

2 These fellows will probably go.

3 MR. MACNUTT: And just for the record, Mr. Chairman, if Mr.
4 Knecht could be formally discharged of his duties.

5 CHAIRMAN: He already has.

6 MR. MACNUTT: I missed it.

7 CHAIRMAN: That I did do. Okay. So you take your time and
8 just come and knock on the door and we will give it an
9 exhibit number and put it on the record. Anybody who
10 wants -- can you inform people what these questions are
11 that you are working on so they will know whether they
12 want to stay or not?

13 MR. MORRISON: Well the first one is actually -- it's a
14 request by yourself, Mr. Chairman. It relates to the NUG
15 issue, dispatchability of the NUGs.

16 CHAIRMAN: Yes.

17 MR. MORRISON: And as you know, the Board has already
18 adjudicated on that issue that the NUGs don't have to be
19 produced and information about them don't have to be
20 produced. But we have gone to great lengths to try to get
21 this information and get the consents of the NUGs to have
22 it filed with the Board in confidence. So it's from
23 February 23rd. So it will be filed with the Board in
24 confidence.

25 CHAIRMAN: Sorry. I missed the last?

2 MR. MORRISON: It was requested by you on February 23rd.

3 CHAIRMAN: Yes.

4 MR. MORRISON: And we will be filing that with the Board in
5 confidence on the pink paper.

6 CHAIRMAN: Okay. That's good. We will -- those who don't
7 wish to stay, we will be reconvening this hearing on
8 Monday morning at 10:00 a.m. There is one member of the
9 public who Mr. Young informs me has maybe 15 minutes and
10 then we will get into summation.

11 MR. MORRISON: Just so everybody else knows, the next one is
12 a request from Commissioner Sollows. Again this deals
13 with the dispatchability of the plants. This one is not
14 confidential, because it's just a reference to a previous
15 IR.

16 Undertaking number 5 from yesterday, it's from Mr. Hyslop
17 and it dealt with the minutes of the Operating Committee
18 when the change in the methodology was first raised.

19 And the last one is also from yesterday and it's from
20 Commissioner Nelson. And he wanted to know what the
21 difference would be up to the end of February. So those
22 are the four undertaking responses.

23 CHAIRMAN: Good. Thanks, Mr. Morrison. You knock on the
24 door when you are ready.

2 MR. MORRISON: Apparently, we are ready. They worked their
3 magic behind my back, Mr. Chairman.

4 CHAIRMAN: The first exhibit is A-161. It was a request
5 from the 23rd of February. It doesn't show -- well, of
6 course, it wasn't an official undertaking.

7 MR. MORRISON: That's correct.

8 CHAIRMAN: So you don't have a number. But it was as a
9 result of my request. And it comes in both the expunged
10 version and confidential. So the expunged will be A-161.

11 And the pink version is A-161(C).

12 The next is again -- it has to do with a request by
13 Commissioner Sollows on the 22nd of February. And the
14 question is dispatching the plants and capacity available
15 in the province on a purely economic basis, what would be
16 the estimated cost to Disco? And that will be A-162.

17 Yes. A-162.

18 The next will be A-163. And that's undertaking number 15
19 of March 15th, request by the Public Intervenor.

20 MR. MACNUTT: I understand that it is undertaking number 5
21 it should be, Mr. Chairman.

22 CHAIRMAN: Yes. What did I say, Mr. MacNutt?

23 MR. MACNUTT: 15. Unfortunately you said 15.

24 CHAIRMAN: Okay. You are right. The next one is
25 undertaking number 6, March 15 and that will be A-164.

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MR. MORRISON: That's it, Mr. Chairman. Thank you very much.

CHAIRMAN: Thank you. And we reconvene on Monday at 10:00 a.m.

(Adjourned)

Certified to be a true transcript
of this hearing, as recorded by
me, to the best of my ability.

Reporter