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		Page		Page 2
1	LIST OF UNDERTAKINGS		,	9:05 a.m.)
	Undertaking Pg		2 C	HAIRMAN:
3 2.	Undertaking Pg	. 18	3	Q. Thank you. Good morning. Trust our friends
			4	from away had an enjoyable weekend. Not
			5	Myrtle Beach, but anyway, we have some nice
			6	scenery around here. Good morning, Ms.
			7	Newman. Any items before we begin?
			8 M	IS. NEWMAN:
			9	Q. No, Chair.
			10 C	HAIRMAN:
			11	Q. Good morning, Mr. Greneman. How are you?
			12	A. Good morning.
			13	Q. Good morning, Mr. Kennedy.
				IR. KENNEDY:
			15	Q. Good morning, Chair.
				HAIRMAN:
			17	Q. Had all weekend now to either have expanded or
			18	contracted.
				IR. KENNEDY:
			20	Q. Counter intuitive, the longer you look at it,
			21	the less questions you want to ask anyway.
				HAIRMAN:
			23	Q. Anyway, when you're ready you could proceed,
			24	please.
			25 M	IR. KENNEDY:
		Page 3	.	Daga 4
		rage.	5	Page 4
1	Q. Thank you, Chair, I won't be lo	•	1	interconnected with each other. So where
1 2	Q. Thank you, Chair, I won't be lo morning, Mr. Greneman.	•		-
1	•	•	1	interconnected with each other. So where
2	morning, Mr. Greneman.	ong. Good	1 2	interconnected with each other. So where zones generally could be interconnected, these
2 3	morning, Mr. Greneman. A. Good morning. Q. Mr. Greneman, I just wanted to so	ong. Good	1 2 3	interconnected with each other. So where zones generally could be interconnected, these are not interconnected. Q. Okay. Well, in the case ofwell, we'll get
2 3 4 5	morning, Mr. Greneman. A. Good morning. Q. Mr. Greneman, I just wanted to st discussion, if you will, concerning	ong. Good tart with a g the policy	1 2 3 4	interconnected with each other. So where zones generally could be interconnected, these are not interconnected. Q. Okay. Well, in the case ofwell, we'll get to that. I also understand that there's
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Page	5	Page 6
1 MR. GRENEMAN:]]	11 7 1
2 A. I would think aI haven't used the term	2	2 A. That is correct.
3 myself, but I know it's used. I would think	3	Q. And so we, under that system, for instance,
4 that it's the same rate regardless of	4	the Island Interconnected system, average all
5 distance. If you have an alternate	4	the costs for the Island Interconnected system
6 definition, please tell me.	1	to arrive at one rate to be supplied for all
7 MR. KENNEDY:	7	7 the supply points in that Island
8 Q. So for instance, within Hydro's system, we	8	8 Interconnected system?
9 know that for instance, customers of Hydro,	و	-
for instance Newfoundland Power, being located	10	Q. And so in that sense, there is, within the
in St. John's, are charged the same as	11	
Newfoundland Power's customers in Burin, for	12	-
instance.	13	·
14 A. Yes.	14	•
15 Q. They have the samethey see the same end	15	
	16	
1		•
17 A. I agree.	17	, ,
18 Q. And Hydro sells to Newfoundland Power the	18	11 7 1
energy at the same rate regardless of where it	19	** * *
20 ends up being used?	20	
21 A. Hydro sells to Newfoundland Power at one rate.	21	11.
22 Q. And that's notso there's nothing factored in	22	
there to take into account that some of the	23	5 5 1
supply points between Hydro and Newfoundland	24	if you will, and in my view, to the extent,
25 Power allow Hydro to provide the energy at a	25	sure, you can follow electrons from where they
Page	7	Page 8
are metered at the interface to Newfoundland	1	50.1
2 Power and measure the distance to this load		2 A. Sorry, credit.
3 centre or that load centre, but within the		Q the GNP generation, the generation on the
4 realm of cost of service, I do not see	2	
5 anything at all unusual or outstanding about		5 A. My understanding is it's currently common,
6 the way this is being done on the Island		subject to check.
7 Interconnected system. I don't personally see		
8 it as an issue.	8	
9 Q. It's, from your perspective, an acceptable	1,0	, , , , , , , , , , , , , , , , , , , ,
method to use in calculating what that	10	
wholesale rate should be as charged to	11	
12 Newfoundland Power?	12	•
13 A. Yes, I do.	13	2
14 Q. Okay. And now within that, there are,	14	,
however, some instances where some plant is	15	`
directly assigned to a particular customer, as	16	, 8
opposed to just being all lumped in?	17	J.
18 A. That is correct.	18	
19 Q. So for instance, if we look at the GNP, the	19	
20 GNP transmission, as was approved by the Board	20	•
in the decision coming out of 2001, is	21	· ·
22 assigned directly to the rural customers of	22	Peninsula?
Newfoundland Power or to Newfoundland Hydro,	23	3 A. The transmission piece.
24 correct?	24	4 Q. The transmission?
25 A. The transmission component is.	25	5 A. Yes.

ľ	٧o	ovember 17, 2003 Multi	-Pa
Γ		Page 9	
l	1	MR. KENNEDY:	1
l	2	Q. The generation on the Great Northern Peninsula	2
l	3	being assigned common, it's costs get added in	3
l	4	to the total system cost for Hydro and are	4
l	5	averaged out among the customer groups that	5
l	6	comprise the common?	6
l	7	A. That's correct.	7
l	8	(9:15 a.m.)	8
l	9	Q. And in making that decision and recommendation	9
1	10	to assign the generation on the GNP as being	10
1	11	common, was Hydro following the Board's	11
1	12	instructions, I guess, and direction pursuant	12
1	13	to the decision of the 2001 hearing that where	13
1	14	plant as a substantial benefit to two or more	14
1	15	customers, it should be assigned common?	15
1	16	A. Yes. I would need to reviewthe way its been	16
1	17	portrayed in the cost of service study, as	17
1	18	F	18
1	19	Board has ruled in P.U. 7.	19
1	20	Q. So in some cases, Mr. Greneman, a plant is	20
1	21	assigned common and the cost is averaged in to	21
ľ	22	all customers. In some cases, plant is	22
ľ	23	assigned specific and only that particular	23
1	24	customer class incurs the cost, correct?	24
Ŀ	25	A. Right. It can be that particular customer	25
		Page 11	
l	1	interpreted differently by different utilities	1
l	2	and different people within utilities. I can	2
	3	say, from my point of view and from my	3
	4	experience, if, for example, there is an	4
	5	industrial customer and they asked the utility	5
	6	for lines or substations beyond what's	6

Page 10 class or a group of two customer classes 1 excluding one. Yes, but there are situations 2 where there are specific assignments in that 3 fashion. 4 Q. When or where, in your opinion and expertise, 5 do we set from one to the other? Where do we-6 -where should the Board depart from the 7 postage stamp style rate making and instead 8 start assigning specific costs for specific 9 plant to specific customer groups? 10 A. Right, there is not any absolute test to 11 determine, if I will, a 100 percent 12 objectively whether or not something is 13 specific--should be specifically assigned or 14 whether it should be common. 15 allocation, this is a situation that's 16 actually been wrestled with for many, many 17 years, and if I may suggest that in the United 18 States, there is currently unbundling at the 19 transmission level and the Federal Energy 20 Regulatory Commission has come out with what 21 they call a FERC 7-factor test to effectively 22 discern what is common versus what is

specific. And they have merely a set of seven

guidelines and those guidelines can be

A. At this point, if I may, I'd like to say that

7 normally provided, to ensure an extra level of reliability, I think, in my view, something 8 above and beyond the normal such as that should be directly assigned. That would be a 10 pretty clear cut example in my mind. So below 11 that, there is some ambiguity and there is 12 always judgment involved. 13 Q. Okay. So for instance, the Burin Peninsula, 14 15

we've seen evidence about the fact that there are two transmission lines that service the Burin Peninsula, correct? A. Yes. Q. I believe they're T212 and T219, I think. A. Okay. Q. And those transmission lines are bringing

energy down to the Burin Peninsula in most

allowing energy from the Burin Peninsula to

occasions, but also service the system by

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the planning department as prepared that 2 specific assignment study and that would be 3 supported by Mr. Jim Haynes, and my 4 5 involvement was simply to review the study and note that their decision making process was in 6 accordance with the general principles that 7 are used in the industry, but I don't think 8 9 I'm prepared to sit here and support that particular study one way or the other. 10 Q. In your experience, Mr. Greneman, is there a 11 trend generally in other jurisdictions towards 12 moving towards more of a postage stamp style 13 cost allocation or is the move more towards 14 doing direct assignment of plant under cost of 15 service allocation? 16 A. I could think of situations where it's going 17 both ways, and I'm not sure which way the 18 19 trend is going. In one jurisdiction I'm somewhat familiar with, there were very 20 extensive direct assignments for industrial 21 customers, but as the system evolved, the 22 transmission enhancements became pretty much 23 plant that enhanced the reliability of the 24 25 entire system and was just, you know,

Page 12

get up to the rest of the main grid?

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	Page 13		Page 14
1	MR. GRENEMAN:	1	Q. And first I wanted to look at PUB-150. If you
2	functionalizedallocated rather to everyone.	2	could just scroll down there? Give you a
3	I'm aware of that situation going both ways.	3	moment to read that, Mr. Greneman.
4	Zonal rates are, as I can recall, have become	4	A. Yes, I can't see all the -
5	out of favour, to use that term that you used	5	Q. Look familiar?
6	earlier.	6	A. Yes.
1	MR. KENNEDY:	7	Q. Okay. This is, as I understand it, the
8	Q. And so the zonal rates, you're describing them	8	proposed new wholesale demand rate as being
	as akin to the postage stamp or the direct	9	put forward by Hydro. Is that correct?
	assignment? I just wanted to make sure which		A. Except that it's been adjusted to conform to a
10	•	10	
11	you're indicating.	11	later revenue requirement, yes.
12	A. What I was referring to is just simply not	12	Q. Right. And the difference there is the
13	discerning differences so much based upon	13	energy, in that first block, the 420 gigawatt
14	distance per se.	14	hour block change?
15	Q. Generally, as between the two methodologies,	15	A. Yes, sir.
16	which is easier to administer?	16	Q. Okay. The tail block, if you will, amount
17	A. By far, the averaging, the non-direct	17	didn't change nor did your demand factor,
18	assignment is by far the easier to administer,	18	correct?
19	I mean, from a costing point of view that is.	19	A. That's correct.
20	That's strictly simplicity from a costing	20	Q. Okay. And just so we're clear, the 420
21	point of view.	21	gigawatt hours, that reflection point, what's
22	Q. I understand. Okay. I'd just like to turn to	22	the basis for the 420?
23	the wholesale rate issue, if I could, Mr.	23	A. Yes, the basis for 420 was to placethat was
24	Greneman.	24	the general concept was to determine for a
25	A. Yes.	25	typical winter month a midpoint or an
	Page 15		Page 16
1	approximate midpoint such that roughly one	1	demand cost of service, that's not to say that
2	half of NP's consumption would fall in the	2	all of Holyrood, for example, and it's not to
3	first block and approximately one half would	3	say that all of Hydro's hydraulic plants are
4	fall in the second block, and that, when I say	4	in that \$84.00. It's the demand portion of
5	winter consumption, it is generally November	5	Holyrood and the demand portion of their
6	through March. So in November through March,	6	hydraulic plants.
7	it was targeted such that one half would fall	7	Q. And would the demand portion of Holyrood or
	in block one and one half of their consumption		demand portion of their hydraulic plants,
8		8	- · · · · · · · · · · · · · · · · · · ·
9	would fall in block two, from Holyrood, not	9	either way, be comprised of both generation
10	their total consumption from Holyrood.	10	and transmission related demand costs?
11	Q. Okay. The \$7.00 a kilowatt, could you tell us	11	A. Yes, that is correct.
12	what that represents?	12	Q. And so the \$7.00 would be made up of both of
13	A. Yes, I can. Hydro's fully allocated cost of	13	those components? In other words, a portion
14	service has intrinsic in it a demand cost of	14	of that \$7.00 is for generation demand related
15	\$84.00 per kilowatt per year and the \$7.00 is	15	costs and the remaining portion of the \$7.00
16	simply one-twelfth of that. That is to say,	16	would be for transmission demand related
17	it's an amount, an equal amount in each of	17	costs?
18	twelve months such that over twelve months it	18	A. Right, and the transmission in most or all
19	will equal twelve times seven or \$84.00, which	19	cases are considered generate leads.
20	is Hydro's fully allocated demand cost of	20	Q. Sorry, are considered?
21	service.	21	A. Generate leads, if you will, to integrate
22	Q. Now -	22	that's my understanding, to integrate the
23	A. In -	23	generation into the system.
24	Q. Yes, sorry, go ahead.	24	Q. Okay. Do you have or would you be able to
25	A. I'm sorry. And when I say fully allocated	25	provide, even at this point, a ballpark of the

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Page 17		Page 18
1 MR. KENNEDY:	1	keeping a \$7.00 kilowatt demand charge if
2 breakdown between the generation demand	2	there was only one block?
3 related costs and the transmission demand	3 A	A. I think that hasunder column A, that's
4 related costs to arrive at that \$7.00 figure?	4	before the adjustment.
5 A. I cannot do it here on the stand, but I can	5 (Q. Yes.
6 get that for you. (UNDERTAKING)	6 A	A. My recollection, and subject to checking, is
7 Q. Okay. Could we havecounsel, could we have	7	3.55 cents per kilowatt hour. If it's any
8 an undertaking to provide that?	8	different I will provide it.
9 MR. YOUNG:	9 (Q. Yes, okay. In light of the revised figures, I
10 Q. Could you just repeat that exactly?	10	wonder if we could just confirm whether the
11 MR. KENNEDY:	11	3.55 still applies or whether it's changed?
12 Q. A breakdown of the \$7.00 kilowatt demand	12	(UNDERTAKING)
charge as proposed.	13 A	A. It'll change very subtlety.
14 MR. YOUNG:	14 (Q. Yes, okay. Thank you. Mr. Greneman, Friday
15 Q. Between transmission and generation?	15	just passed, although it seems like a week
16 MR. KENNEDY:	16	ago, there was a lot of discussion concerning
Q. Between generation and transmission, correct.	17	marginal costs.
18 A. You mean the \$84.00?	18 A	A. Yes.
19 Q. Well, \$84.00 is fine. It's the 7.00, as I	19 (Q. And I just wanted to, if we could, just
20 understood, is just 84 divided by 12.	20	clarify the record. First, what we're
21 A. Yes.	21	discussing when we're discussing marginal
22 Q. Yes, so either way is fine. The other thing,	22	costs, and as I understand it, there is
I guess, while we're on it is, if I could,	23	principally two different types of marginal
would it be possible, Mr. Greneman, for you to	24	costs. There's long-run marginal costs and
calculate what the energy rate would be,	25	short-run marginal costs, correct?
Page 19		Page 20
1 A. Correct.	1	would be, in effect, for in the Granite Canal
2 Q. Could you provide a definition of what you	2	where we have the full information there,
3 consider to be the long-run marginal costs and	3	these are as stated the levelized costs in
4 then a definition of the short-run marginal	4	cents per kilowatt hour for the power that's
5 costs?	5	being produced out of Granite Canal, correct?
6 A. Yes. The long-run marginal cost, capital is	1	A. I'll accept that.
7 allowed to change, and in short-run marginal	7 (Q. And fuel doesn't apply to Granite Canal, being
8 cost, capital does not change.	8	a hydro plant?
9 Q. So I suppose -		A. Correct.
10 A. And it's -	10 (Q. And so we have an O&M of .33 cents per
11 Q philosophically, what are the difference	11	kilowatt hour and a capital cost of 5.14 cents
between the two? What's one intending to	12	per kilowatt hour?
account for versus the other?		A. I see that.
14 A. My understanding is that long-run marginal		Q. So just applying simple mathematics, would
cost is more a reflection of the cost to	15	that mean that the levelized cost of the power
society and short run isit encompasses	16	being produced by Granite Canal is 5.47 cents
17 Hydro's expansion plan and technology of the	17	a kilowatt hour?
time, perhaps.	1	A. Yes, I would say that.
19 (9:30 a.m.)		Q. Okay. Now let's just go back to 1996 or 199
Q. Okay. Maybe we can just turn first to IC-146.	20	well, when was GraniteI think it was in 1999
Just give Mr. Greneman a moment to read the	21	when Granite was first on the horizon as a

23

24

25

A. Okay.

possible plant to be constructed by Hydro.

Q. If Hydro was expected to produce a long-run

marginal cost in 1999, that long-run marginal

Q. Okay. Could we turn to page two, please? Now

as I understand it from the question, this

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24

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question.

A. Okay, I see the question.

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	Page 21		Page 22
1	MR. KENNEDY:	1	Q. Yes, sorry.
2	cost would try to determine, would it not,	2	A. A little bit cautious. These are levelized
3	what the levelized cost of energy would be in	3	costs for Granite Canal. The marginal cost
4	a plant like Granite Canal?	4	study, and I'm just a little bit cautious,
5	A. Yes.	5	states it's a levelized cost of the change in
6	Q. And so if everything was perfect in 1999,	6	capital on an annualized basis, if you will,
7	Granite Canal had yet to be built, but Hydro	7	revenue requirement corresponding with the
8	was doing the long-run marginal cost	8	aggregate change of load on the system rather
9	calculation, it would have calculated, in	9	than load specifically at Granite Canal.
10	1999, that the levelized cost of energy to be	10	Q. Yes, okay.
11	produced by Granite Canal once built would be	11	A. So it's within that context.
12	5.4 cents per kilowatt hour?	12	Q. Yes, I understand.
13	A. Subject to the present worth from 2003 to	13	A. Yes.
14	1999, right.	14	Q. In effect I am simplifying the long-run
15	Q. That's right, okay. And so, in the case of	15	marginal cost calculation that would actually
16	long-run marginal costs, that's what we're	16	have to occur.
17	talking about is the cost to produce energy	17	A. Okay.
18	from a new plant, and that necessarily means	18	Q. So I'm isolating it to just one plant, if we
19	that you have to take into account the capital	19	were to do a long-run calculation just for
20	costs that you're incurring to produce that	20	that one plant.
21	new energy?	21	A. Right.
22	A. Yes.	22	Q. And we were to do that in 1999 and everything
23	Q. Okay. Now, there's also been reference to the	23	was perfectly done, it should have shown that
24	fact that -	24	that levelized cost in 2004 is going to come
25	A. May I?	25	out to 5.47 cents a kilowatt hour?
	<u> </u>		
	Page 23		Page 24
1	Page 23 A. That it would beit wouldn't necessarily be	1	Page 24
1 2	9	1 2	
1	A. That it would beit wouldn't necessarily be		Page 24 year we're looking at is 1996. And it's the
2	A. That it would beit wouldn't necessarily be stated with respect to Granite Canal. It	2	Page 24 year we're looking at is 1996. And it's the number of units on and unit 3 in sync
2 3	A. That it would beit wouldn't necessarily be stated with respect to Granite Canal. It might be stated with the numerator, if you	2 3	Page 24 year we're looking at is 1996. And it's the number of units on and unit 3 in sync condense, I won't even pretend to know what
2 3 4	A. That it would beit wouldn't necessarily be stated with respect to Granite Canal. It might be stated with the numerator, if you will, combined with other sources and the	2 3 4	Page 24 year we're looking at is 1996. And it's the number of units on and unit 3 in sync condense, I won't even pretend to know what that is. But the number of units on, so, for
2 3 4 5	A. That it would beit wouldn't necessarily be stated with respect to Granite Canal. It might be stated with the numerator, if you will, combined with other sources and the denominator, the system load growth rather	2 3 4 5	Page 24 year we're looking at is 1996. And it's the number of units on and unit 3 in sync condense, I won't even pretend to know what that is. But the number of units on, so, for instance, in January 1 of 1996 there were
2 3 4 5 6	A. That it would beit wouldn't necessarily be stated with respect to Granite Canal. It might be stated with the numerator, if you will, combined with other sources and the denominator, the system load growth rather than delta load for the specific plant.	2 3 4 5 6	Page 24 year we're looking at is 1996. And it's the number of units on and unit 3 in sync condense, I won't even pretend to know what that is. But the number of units on, so, for instance, in January 1 of 1996 there were three units on at Holyrood. And we know that
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. That it would beit wouldn't necessarily be stated with respect to Granite Canal. It might be stated with the numerator, if you will, combined with other sources and the denominator, the system load growth rather than delta load for the specific plant. Q. Yes, okay. A. Okay. Q. Reference has been made to the fact that we often look to the short-run marginal cost of Holyrood to produce energy as the short-run marginal cost for the hydro system, correct? A. That is correct. Q. Now, I wonder if we could just turn to IC-150? Now, this is a fairly lengthy document but we can scroll through it fairly quickly, Mr. Greneman. These are the, as indicated, it's actually times and dates for the use of Holyrood? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 24 year we're looking at is 1996. And it's the number of units on and unit 3 in sync condense, I won't even pretend to know what that is. But the number of units on, so, for instance, in January 1 of 1996 there were three units on at Holyrood. And we know that Holyrood has three units, so in other words, all three of the units in Holyrood were operating, correct? A. Yes. Q. Okay. And if you just scroll down a little bit, you can see there's a couple of spots where it's only two units on in the 1,18 of '96, so the 18th of January, 1996 there were two units on in Holyrood, correct? A. Yes. Q. Okay. And if you just scroll, look over, sort of pan to your right, you'll see in 2001 and 2002 the number of units on at Holyrood was
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	P 25		D 26
1	Page 25		Page 26
1	MR. KENNEDY:	1	Holyrood was also non-operational in effect
2	there's one unit, two units or three units	2	for the July month, I believe, of 2003 as
3	running at Holyrood, all else being equal, the	3	well?
4	short-run marginal cost of Hydro being able to	4	A. I'll accept that.
5	produce power would be matched to the short-	5	Q. So in a time frame where Holyrood is actually
6	run marginal cost of Holyrood, correct?	6	not being used, for instance, that there were,
7	A. That's right.	7	as in the case here, zero units on, what would
8	Q. All right. I wonder if we could just go to	8	be the marginal cost of the system at that
9	the next page? Yeah, I'm interested in the	9	point, the short-run marginal costs?
10	2002 column, actually, Mror 2003. And if	10	A. It would still be Holyrood.
11	we could just scroll down again? Go to your	11	Q. And why would that be?
12	next page. So we see in 2003 we go from two	12	A. Because, well, you'd have to take water out of
13	units and then it starts to drop down to one	13	storage to serve it, and by taking water out
14	unit?	14	of storage when Holyrood is out, it's actually
15	A. I see that.	15	deferring that kilowatt hour to Holyrood
16	Q. Okay. Could we scroll again to the next page,	16	during a peak month.
17	Mr. O'Reilly? All right. Now, this was as of	17	Q. Okay. So I wonder if we can go to IC-158,
18	the time that this data was done, it cuts off	18	please? Okay. So this is a document that is
19	at June the 30th, 2003, correct?	19	doing the most recent LOLH study, and it's a
20	A. Yes.	20	copy of the study that was submitted to the
21	Q. Okay. And that in thosethat last period,	21	Board in 2001. I wonder if we can go straight
22	the 29th of June and the 30th of June, 2003,	22	to table 1? It's at the back of the document
23	the number of units on at Holyrood was zero?	23	after the text. Here we go. So, Mr.
1	A. Yes.	$\begin{vmatrix} 23 \\ 24 \end{vmatrix}$	Greneman, this table, as it indicates, it's
24 25	Q. And I understand from another RFI that	25	
23		23	the LOLH analysis to determine the appropriate
	Page 27		Page 28
1	number of CP demand allocators, load factor	1	placed on the hydro system, correct?
2	and LOLH contributions in each month. And you	2	A. Yes. But my understanding is peaks have
3	can see it uses a standard annual peak of 1700		
1		3	occurred in November through March.
4	megawatts. And then there's different load	3 4	Q. Um-hm. Yes, March is not insignificant, for
5	factors applied, 50, 55, 60 and so on. And		· · · · · · · · · · · · · · · · · · ·
1	factors applied, 50, 55, 60 and so on. And then it shows what the change in the LOLH	4	Q. Um-hm. Yes, March is not insignificant, for
5	factors applied, 50, 55, 60 and so on. And	4 5	Q. Um-hm. Yes, March is not insignificant, for instance, in the first column at 8.2 percent?
5 6	factors applied, 50, 55, 60 and so on. And then it shows what the change in the LOLH	4 5 6	Q. Um-hm. Yes, March is not insignificant, for instance, in the first column at 8.2 percent?A. Right.
5 6 7	factors applied, 50, 55, 60 and so on. And then it shows what the change in the LOLH would be as a result of that load factor in	4 5 6 7	 Q. Um-hm. Yes, March is not insignificant, for instance, in the first column at 8.2 percent? A. Right. Q. Right. A. Whetherif I - Q. Yes.
5 6 7 8	factors applied, 50, 55, 60 and so on. And then it shows what the change in the LOLH would be as a result of that load factor in annual peak, is that correct?	4 5 6 7 8	Q. Um-hm. Yes, March is not insignificant, for instance, in the first column at 8.2 percent?A. Right.Q. Right.A. Whetherif I -
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	factors applied, 50, 55, 60 and so on. And then it shows what the change in the LOLH would be as a result of that load factor in annual peak, is that correct? A. Yes. I'm reviewing it, if I may? Q. Okay. A. Okay. Q. All right. So, would you agree with me that, and I think you've sort of indicated this by virtue of your answer in regards to the 420 gigawatt hours, but the coincident peak or demand allocators are driven principally by the months of December, January and February, correct? A. That's correct. Q. So that - A. Oh, sorry. Bear with me. Q. Yes.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Um-hm. Yes, March is not insignificant, for instance, in the first column at 8.2 percent? A. Right. Q. Right. A. Whetherif I - Q. Yes. A. If I may add, whether it's three months or five months, that doesn't negate the validity of the gigawatt hours between the first and second blocks. Q. Okay. Could we go to IC-152? So this is, as I understand it, it shows the Holyrood capacity factor. If we could just go to the next page, Mroh, if Mr. Greneman is finished reading. A. Okay. Q. Okay. We can go to the next page, 2003, just to get the most recentsorry, the 2001. That's the 2001 forecast. I just want to make

November 17, 2003	`	s 2005 General Rate Application
]	ge 29	Page 30
1 MR. KENNEDY:	1 A. Right.	
2 32.59 percent, is that correct?	2 Q. And again, tl	hat would represent the amount
3 A. I see that.	3 that the overa	ll system capacity was used as
4 Q. And in effect then am I correct in	4 opposed to w	hat it could produce, again, on a
5 paraphrasing that that number represents, in	5 theoretical ba	sis, correct?
6 way, how much Holyrood was used during	at 6 A. Yes.	
7 five-year period versus how much energy	7 Q. Okay. And	so, clearly in myis my
8 could, in actual fact, produce on a firm		g correct then that if the system
9 basis?	-	r 1997 is 63.09 percent and we
10 A. That's my understanding.		system load factor for Holyrood
11 Q. All right.	I	below that number, that then the
12 A. On a theoreticaltheoretically.		actor for the energy and power
13 (9:45 a.m.)		ants excluding Holyrood would have
Q. I wonder if we could turn now to IC-169?		han 63 percent? In other words,
15 Okay?	1	nts have a greater system load
16 A. Yes.		ould Holyrood itself?
17 Q. All right. If we could just go to the next	17 A. Agreed.	outa 1101y100u itseit.
page? There we go. So this is the, as is	_	er if we could turn to NP-41? Now,
19 stated at the top of the table, the Island		her area in the sense that it
20 Interconnected System load factor, correct?		e rural systems, the Isolated
21 A. Yes.		ns, Mr. Greneman, but the
22 Q. And it shows that for 1997 the system load	_	what interested me, that Hydro's
23 factor was 63 percent?		nat's at line 7. Hydro's
24 A. Yeah, 63.09.		eliability criterion for the
25 Q. Sorry. 63.09 percent?		systems is stated as follows,
		·
	ge 31	Page 32
1 "Hydro shall maintain firm generation capac		ways: one, by allowing Hydro to
to meet the system peak load. Firm generati	1	infrastructure projects that are
3 capacity is defined as the total installed	I	increase peak capacity; and
4 capacity in the system minus the largest		llowing Hydro to invest more
5 single unit." Now, that's how Hydro builds	I	load generation technologies that
does its system planning for the, as is		antage of greater economies of
7 stated, the Isolated Rural System. That's not		ced per kilowatt hour operating
8 the same mechanism, though, that's used	I	s I understand it, there's two
9 Hydro for the Island Interconnected Syster		ydro has to take care of, really,
for instance, is it?		g its system planning, and one is
11 A. I'm not the proper witness to ask that.	I	that it has adequate amount of
12 Q. Maybe if we could just go to NLH-210 then		the ready to address the
13 Mr. Greneman, on Friday Mr. Kelly, counse	_	ak, correct?
14 Newfoundland Power, was asking you s		
questions concerning the incentive to be		r part of the system planning is
provided to Newfoundland Power to limit p		that it has the capacity to handle
that is provided by virtue of a wholesale		requirement on a month-by-month
demand rate. Do you remember that line	basis, correct	?
19 questioning?	19 A. Yes.	
20 A. Yes.	20 Q. But that if w	e shift load to a significant
21 Q. And I'm wonderingyou've had an opport	ity 21 enough amou	nt, all else being equal, we may
22 to read the reply to NLH-210 which was	_	asing the amount of coincident
directed to the consultants for EES. And		
	23 peak that we'	d otherwise be faced with that
there they provided an explanation of how shifting load could potentially reduce cost in	_	address, correct?

	,	1-1 a	•
1	Page 33		Page 34
1	IR. KENNEDY:	1	meet system peak, the coincident peak. From a
2	Q. If I give you a concrete example. If	2	system planning perspective, addressing
3	Newfoundland Power's base load was time	3	coincident peak, depending on the
4	shifted so that 100 megawatts of power came on	4	characteristics of the coincident peak may be
5	at a different time than it has traditionally	5	met by ensuring that at the ready are gas
6	been coming on the system, from a time of day	6	turbines and diesel fire generators that will
7	use, that that potentially could decrease the	7	give just that incremental extra amount of
8	coincident peak that's experienced by the	8	capacity to prevent brown outs and blackouts,
9	system?	9	correct?
10	A. Shifting of the base load?	10	A. Yes.
11	Q. Shifting of Newfoundland Power's load profile.	11	Q. And that that's very expensive energy to
12	A. Are you saying that the peakare you	12	produce normally, energy coming out of a gas
13	suggesting that the peak moves from one place	13	turbine?
14	to another?	14	A. The energy component, yes, is more expensive
15	Q. And that it would be -	15	typically.
16	A. Is that what you're suggesting, that the peak	16	Q. But that we're not, we're not overly concerned
17	1. 15 that what you ie suggesting, that the peak	17	about that in light of the fact that they
1	Q. That's correct. And that it would be a		•
18		18	usually only have to operate for quite a short
19	different peak in amount. Do you agree with	19	period of time?
20	that?	20	A. Correct.
21	A. I'm sorry. There's two answers. Can you	21	Q. And that's because we just need to be able to
22	repeat that once again?	22	peak shave?
23	Q. Sure. Let's just look at the first one first,	23	A. Yes.
24	the coincident peak, and Hydro's requirement	24	Q. All right. But that in the meantime on a
25	to make sure that it has available capacity to	25	longer time frame over the winter months of,
	Page 35		Page 36
1	let's say November to March as you've	1	that Hydro may be able to invest more towards
2	described it, the base load for November to	2	base load generating technologies that can
1 ~		4	base load generating technologies that can
3	March is higher than the base load for the	3	take advantage of greater economies of scale
$\begin{vmatrix} 3 \\ 4 \end{vmatrix}$	March is higher than the base load for the remaining months of the year, correct? And		
	_	3	take advantage of greater economies of scale
4	remaining months of the year, correct? And I'm -	3 4	take advantage of greater economies of scale for reduced per kilowatt operating cost, you
4 5	remaining months of the year, correct? And I'm - A. It depends. I'm trying tothere isit	3 4 5	take advantage of greater economies of scale for reduced per kilowatt operating cost, you would agree with that as well?
4 5 6	remaining months of the year, correct? And I'm - A. It depends. I'm trying tothere isit depends with you and I talking about base load	3 4 5 6	take advantage of greater economies of scale for reduced per kilowatt operating cost, you would agree with that as well? A. I think I could. Q. That's all the questions I have, Chair. Thank
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	remaining months of the year, correct? And I'm - A. It depends. I'm trying tothere isit depends with you and I talking about base load being the same, I'm not sure. Q. Yeah. And I just realized that we might be using two different definitions. Well, let's just deal with the first of the EES points in NLH-210, the R-5 that's on the screen there. When they say "First Hydro would be able to defer capital infrastructure projects that are intended to increase peak capacity", would you agree with that position that as stated by EES in that R-5? A. Yes. Q. Okay. A. Is the thrust of your question that you going to chase a peak and it's going to be the same peak or ultimately the peak will be reduced?	3 4 5 6 7 8 9 10 11 12 6 13 14 15 16 17 18 19 20 21 22	take advantage of greater economies of scale for reduced per kilowatt operating cost, you would agree with that as well? A. I think I could. Q. That's all the questions I have, Chair. Thank you, Mr. Greneman. CHAIRMAN: Q. Thank you, Mr. Kennedy. Thank you, Mr. Greneman. Good morning, Ms. Greene. GREENE. Q.C.: Q. Good morning. It's Mr. Young, Mr. Chair. MR. YOUNG: Q. Mr. Chair, there's just one pretty restricted area of redirect. As Mr. Kennedy mentioned, the weekend and the transcripts sometimes help, and if I'd done redirect Friday afternoon, I think it would have been much longer. When you read the transcript, sometimes it boils it down a fair bit. Mr. Greneman, there was an area of questioning on

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I	November 17, 2003	Multi-P	age	e ^{IM} NL Hydro's 2003 General Rate Application
ſ		Page 37		Page
1	1 MR. YOUNG:	1	l	Q. I wonder might there be another thing that was
1	2 demand and ratedemand energy rate struct	ture. 2	2	suggested on Friday, whether it would be
1	And a question arose, I think, as to how much	ch 3	3	required and that is, analysis to the effect
1	4 time would be required in order to impleme	ent 4	1	on Newfoundland Power and their earnings
1	5 that rate after the order was issued. Could	5	5	volatility, or those sorts of issues, do they
1	6 you give us some indication of how long	a 6	5	need to be considered during that month
1	7 period of time you think that might be?	7	7	period?
1	8 A. Yes. As I had suggested on Friday, I though	ht 8	3	A. No, not in my view, that's something that
1	one month would be a reasonable period			Newfoundland Power could do afterwards, on
1	time. And on reflection I still believe that	10)	their own.
1	to be reasonable.	11		Q. Thank you, Mr. Greneman, those are all our
1	12 Q. The month I assume is required for som	e 12		questions on re-direct, thank you.
1	reason. Is there a number of activities that		CH	HAIRMAN:
1	have to be done during that period of time?	14	ļ	Q. Thank you, Mr. Young. We can have Board
1	15 A. Yes. There are basically two things that do	15		questions now, Commissioner Saunders?
- 1	need to be done. One is to ensure that there		S CC	DMMISSIONER SAUNDERS:
1	is adequate metering or proper metering in	n 17	7	Q. No, questions.
1	place. And the second is for the parties to			HAIRMAN:
1	agree on a use of a weather normalization	n 19)	Q. Commissioner Whalen?
ŀ	20 mechanism. I might also ask (sic.) that ther		CC	OMMISSIONER WHALEN:
1	are things that don't need to be done that	21		Q. Good morning, Mr. Greneman.
ŀ	were discussed on Friday. One of them is t	to 22		A. Good morning.
1	conduct a marginal cost study, and the othe		3	Q. Most of my initial questions have actually
ŀ	thing that does not need to be done is to	24		been canvassed, but I think you may have
1	conduct a retail, full retail rate study.	25	5	answered this question in yourin the cross-
t		Page 39		Page
	examination by Mr. Kelly, but is thereI'n	-		entities. The standard way of doing it is
1	2 just wondering, is there a link between a	2		indeed a demand energy rate and in my view,
1	demand energy rate for Newfoundland Pow			nothing else is quite correct. If there's
1	4 other rate design options that Newfoundlar			another part of your question that I missed -
1	5 Power might be able to consider from the po			Q. Well I guess the question, the gist of the
1	6 of view of the end-user? Does Newfoundl			question was more towards whether or not
1	7 Power have to have a demand energy rate to			Newfoundland Power itself had to haveit goes
	8 able to do other things with their rate	8		back to the price signal question and the
	9 design?	9		issue initially when this was raised, in terms
	10 A. Sorry, I think you asked two different	10		of reading the history of this and certainly
	laa saarahaan	10		142 - have sold and all have the history of this

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energy rate?

11 questions.

Q. Well you can rephrase them back to me, if you 12 heard two. I thought I only asked one, but 13 that's fine. 14

15 (10:00 a.m.)

25

A. Okay, well the first one does NP have to have 16 17 a demand energy rate, as I heard it; and I think the second--well, let me answer the 18 19 first. In my view, by virtue of the size of NP and its relationship with Hydro, it is the 20 standard way in the industry for the supplier 21 22 to sell to a utility, such as NP. I think any other rate form does not get the signal 23 24 across, is not appropriate for this type of relationship that exists between such large

st of the ther or not have--it goes and the d, in terms certainly it's been reiterated here, the history of this is such that Newfoundland Power initially raised this in early 90s because they need a demand energy rate to be able to design rates, to be able to send the right price signals to their customers. A. Yes. Q. Is that the case that they need a demand

energy rate to be able to proceed with any other innovative type of rate design options

or can they do it independent of a demand

probably can. But aside from price signal and

aside from reducing the peak on the Island, a

A. If they wanted to do it independently, they

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l	Tuge 112 Hydro 9 2000 General Rate Application
Page 41	Page 42
1 MR. GRENEMAN:	1 CHAIRMAN:
2 demand energy rate has many more virtues	2 Q. Thank you, Commissioner Whalen. I have no
3 standing on its own, so I think thatI	questions. Thank you, Mr. Greneman, for your
4 personally think they need a price signal to	4 testimony. Are there any questions arising
5 be able to react, and I think it's Hydro's	5 from - Okay, thank you very much, Mr.
6 responsibility to pass on its costs in the	6 Greneman.
7 same fashion to its customers as it incurs its	7 HUTCHINGS, Q.C.:
8 costs. And the sample demand energy rate, if	8 Q. Mr. Chair, I'm sorry, I don't have a question
9 you will, does that uniquely, it reflects one	9 arising, but I just wanted to note that Mr.
10 hundred percent of Hydro's demand cost and it	Greneman and I had a discussion at pages 208
states, it reflects its cost incurrence as a	and 209 of the transcript on Friday and while
fixed demand cost. It has to pay its bankers	the word "undertaking " wasn't used, there was
based upon that cost and I think it's only	another answer to come in relation to the
proper that it pass that signal on to its	question that I raised there. I don't know
15 customers.	what the status of that is right now.
16 Q. And it would be your position then that how	16 MR. YOUNG:
Newfoundland Power responds to that is up to	Q. Excuse me, Mr. Chair, I think we're aware of
Newfoundland Power?	that generally, it was a request for a
19 A. Yes, as in any utility-different utilities	reconciliation, I think, is that correct?
respond in different ways and I don't see it	20 HUTCHINGS, Q.C.:
as being Hydro's responsibility to figure out	21 Q. Yes.
22 what NP needs to do to respond to it.	22 MR. YOUNG:
23 Q. Okay. Yes, thank you, that's all the	23 Q. As I understand it, that's being worked on and
questions I have. Thank you very much, Mr.	24 provided in due course.
25 Greneman.	25 HUTCHINGS, Q.C.:
Page 43	Page 44
1 Q. I just raise it because it wasn't noted as an	1 MR. DOUGLAS BOWMAN (SWORN)
2 undertaking in the transcript and perhaps it	2 BROWNE, Q.C.:
was my failure to use the word "undertaking"	3 Q. Mr. Bowman, do you adopt your pre-filed
4 at the time that gave rise to that.	evidence dated September 4, 2003 as your
4 at the time that gave rise to that. 5 MR. YOUNG:	
_	4 evidence dated September 4, 2003 as your
5 MR. YOUNG:	evidence dated September 4, 2003 as your evidence in this proceeding?
5 MR. YOUNG:6 Q. Yes, but we saw it as such.	 evidence dated September 4, 2003 as your evidence in this proceeding? A. I think it's dated September 5th.
5 MR. YOUNG:6 Q. Yes, but we saw it as such.7 HUTCHINGS, Q.C.:	 evidence dated September 4, 2003 as your evidence in this proceeding? A. I think it's dated September 5th. Q. September 5th, 2003, yes, I'm sorry.
 5 MR. YOUNG: 6 Q. Yes, but we saw it as such. 7 HUTCHINGS, Q.C.: 8 Q. That's fine, Mr. Chair. 	 evidence dated September 4, 2003 as your evidence in this proceeding? A. I think it's dated September 5th. Q. September 5th, 2003, yes, I'm sorry. A. I do.
 5 MR. YOUNG: 6 Q. Yes, but we saw it as such. 7 HUTCHINGS, Q.C.: 8 Q. That's fine, Mr. Chair. 9 CHAIRMAN: 	evidence dated September 4, 2003 as your evidence in this proceeding? A. I think it's dated September 5th. Q. September 5th, 2003, yes, I'm sorry. A. I do. Q. Just checking. On page 8 of that evidence,
 5 MR. YOUNG: 6 Q. Yes, but we saw it as such. 7 HUTCHINGS, Q.C.: 8 Q. That's fine, Mr. Chair. 9 CHAIRMAN: 10 Q. Thank you once again, Mr. Greneman. 	evidence dated September 4, 2003 as your evidence in this proceeding? A. I think it's dated September 5th. Q. September 5th, 2003, yes, I'm sorry. A. I do. Q. Just checking. On page 8 of that evidence, you address rate design and the issue of a
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5 MR. YOUNG: 6 Q. Yes, but we saw it as such. 7 HUTCHINGS, Q.C.: 8 Q. That's fine, Mr. Chair. 9 CHAIRMAN: 10 Q. Thank you once again, Mr. Greneman. 11 A. Thank you. 12 Q. Mr. Bowman, would you like five minutes to prepare? 14 A. I beg your pardon? 15 Q. Would you like five minutes to prepare and take the witness stand or - 17 A. I'm ready whenever you are. 18 Q. Okay, well if that's the case, we'll proceed right now. Mr. Browne, would you like to introduce your witness. 21 BROWNE, Q.C.: 22 Q. The witness is Mr. Douglas Bowman from KEMA	evidence dated September 4, 2003 as your evidence in this proceeding? A. I think it's dated September 5th. Q. September 5th, 2003, yes, I'm sorry. A. I do. Q. Just checking. On page 8 of that evidence, you address rate design and the issue of a Marginal Cost Study. Can you summarize for the Board your evidence on the issue of the marginal cost study? A. Yes, it's been quite some time since Newfoundland Hydro has undertaken a Marginal Cost Study. There's a great deal of confusion in this hearing just with the value, for example, of the Interruptible B contract might be. I feel it's time that Hydro undertook a Marginal Cost Study and time that they took a look at some innovative rate options at the same time. Their Industrial Customers have

November 17, 2003	Multi-Page	TM NL Hydro's 2003 General Rate Application
	Page 45	Page 46
1 MR. BOWMAN:		One was linked to demand side management
2 additional rates that might be based on	2	efforts, but also, as Mr. Brockman stated,
3 marginal cost principles. In that regard, I	3	it's widely accepted practice, it's consistent
4 recommended that Hydro undertake a study	y or at 4	with the principle of ensuring rates reflect
5 least direct a study of marginal cost and ho	w 5	costs and a signal cost separately and
6 those marginal costs might be reflected in	n 6	customer energy demand charges, you should be
7 rate options for its customers. And that the	y 7	doing that where it's practical to do so.
8 file that report with the Board in 2004 and	1 8	Now, in that regard, Hydro has proposed a
9 Board should hold a hearing on the report v	with 9	demand energy rate. All the expert witnesses
customer participation. I'd like to see a	10	have reviewed it, I think all of the witnesses
time bound plan for implementation includ	ed in 11	are more or less in favour with it, in favour
that report.	12	of the rate proposed with some minor
13 BROWNE, Q.C.:	13	modifications with the exceptionthat is with
Q. On page 10 of your evidence you deal with	the 14	the exception of Newfoundland Power.
wholesale rate for Newfoundland Power, c	an you 15	Newfoundland Power has primarily the same
summarize your evidence on this issue for	the 16	objective it had during the last hearing that
17 Board?	17	related to the revenue stability issue, but I
18 A. Yes, the demand energy rate, the wholesa	ale 18	believe there's strongit meets the primary
rate discussion goes back many years, back	x at 19	criterion and that is that it recovers the
least to 1990, I think the Stone & Webste	er 20	revenue requirement. It is fair in the sense
Report showed it going back to 1989 even.	The 21	that it reflects both the services provided by
benefits of a demand energy rate have be	en 22	Hydro to Newfoundland Power, that is capacity
well documented. Newfoundland Power	itself 23	and energy. And it sends an efficient price
24 was proposing a demand energy rate back	in 24	signal in the sense that an attempt has been
25 1990. They gave a number of reasons for t	hat. 25	made to reflect the fact that demands are
	Page 47	Page 48
1 higher in winter and that it's priced close to	·	believe, there'swhile there's incentives for
2 marginal energy cost on the energy charg	I	reducing costs associated with the supply of
3 And the overriding reason is that certainly	·	the Isolated systems, certainly the expertise
4 Newfoundland appears to be the outlier and	I	necessary for those systems is different than
5 having a demand energy rate for a custome	I	it is in an Integrated system, so I'm not sure
6 this size, so there's strong regulatory	6	just how Hydro is organized to handle this.
7 precedence to have such a rate. So in that	t 7	It looks like there's certainly not a great
8 regard, I recommended that theit would	I	deal of transparency, like if you ask me or
9 appear that these issues that Newfoundla	I	any of the other experts to try and follow

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appear that these issues that Newfoundland 9 Power--sorry, that Newfoundland Hydro 10 11 identified have not been resolved. I would 12 urge the two parties to get together and resolve those issues, but in the event they 13 are unable to resolve those issues, I would 14 15 recommend that the Board direct implementation of that rate, similar to the same rate 16 17 proposed by the Stone & Webster Report. Q. Mr. Bowman, on page 22 of your evidence, you 18 19 deal with distribution service and on page 23, in reference to that, you recommend a separate 20

department. Can you summarize your evidence

A. I recommend that consideration be given to the

merits of forming a separate department. As

we saw in cross-examination of Mr. Martin, I

any of the other experts to try and follow through on the determination of the rural deficit, it would be difficult for all of us to do that. So a formation of a separate department would increase the transparency and would provide direct management incentives to manage that part of the deficit which is quite, very large at \$4,700 per customer. So I'm recommending that the Board hire-commission an independent study to consider the merits of creating an organizational structure or the separate department. Now, that might be handled simply by the Board's financial consultant, he might simply conduct an audit, for example, of the Isolated systems and make recommendations in that regard.

Q. Thank you, Mr. Bowman, these are our

in reference to that, please?

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	7cmbci 17, 2005 William		te 11L Hydro 8 2003 General Rate Application
	Page 49		Page 50
1 1	BROWNE, Q.C.:	1	a month of the Board's decision to go ahead.
2	questions.	2	Q. Okay, so you were talking in your pre-filed
3 (CHAIRMAN:	3	evidence and you mentioned a moment ago that
4	Q. Thank you, Mr. Browne, Good morning, Mr.	4	the parties should get together and I think
5	Young, once again.	5	you referred to a technical (phonetic) session
6 1	MR. YOUNG:	6	or something of that nature, is that the sort
7	Q. Good morning, Mr. Bowman. Mr. Bowman, you've	7	of thing that you think would take place
8	just mentioned a moment ago, and I guess a	8	during that month?
9	reconfirmation of what's in your evidence as	9	A. I'd like to think that Newfoundland Power and
10	to your position on the demand energy rate	10	Hydro are still trying to work out these
11	structure, and as I understand your position,	11	issues. I don't profess to know what has been
12	you believe one should be imposed by the Board	12	going on. For all I know, maybe you've
13	or implemented by the Board in the near term,	13	already resolved these issues, but I had
14	is that correct?	14	understood in responses to information
15	A. That's correct.	15	requests that these discussions were going to
16	Q. I just have a question as to the timing, in	16	be ongoing and actually, I think they've been,
17	your pre-filed evidence and this was in days	17	supposedly have been ongoing since about 1992.
18	when we thought things might happen on a	18	So I'd like to think that we'll continue to
19	different schedule, I think you said January	19	get together and try and resolve these
20	1. I assume you would agree with me that	20	outstanding issues, primarily related to the
21	that's not the date now you're looking for,	21	use of the weather normalization.
22	but I assume you're talking about when the	22	Q. You also recommended in your evidence and
23	Board makes an order, is that correct?	23	mentioned it again this morning about the
24	A. Yes, I thinkI agree with what Mr. Greneman	24	Marginal Cost Study that you believe ought to
25	said that it shouldit's implementable within	25	be done and, of course, you're aware that the
	Page 51		Page 52
1	parties have made certain agreements as to	1	that the difference in those two transformers
1 .			that the difference in those two transformers
2	that. You also related a date in your	2	has a value in terms of energy use or there
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	evidence as to that, is it your understanding	2 3	
1	•		has a value in terms of energy use or there
3	evidence as to that, is it your understanding	3	has a value in terms of energy use or there will be fewer energy losses with the
3 4	evidence as to that, is it your understanding that that study should be filed in this	3 4	has a value in terms of energy use or there will be fewer energy losses with the efficiency transformer, that will help you identify what those benefits are, both for
3 4 5	evidence as to that, is it your understanding that that study should be filed in this calendar year, is that correct? A. Marginal Cost Study?	3 4 5	has a value in terms of energy use or there will be fewer energy losses with the efficiency transformer, that will help you
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3 4 5 6 7 8 9 10 11 12 13 14 15 16	evidence as to that, is it your understanding that that study should be filed in this calendar year, is that correct? A. Marginal Cost Study? Q. Not this calendar year, the following calendar year, 2004? A. Yes. Q. And I guess it sort of jumps out at me that the Marginal Cost Study would not be done in that case prior to the implementation of the Demand Energy Rate Structure? A. No, the two aren't connected. There's no need to connect those two, you can implement the demand energy rate immediately if you have	3 4 5 6 7 8 9 10 11 12 13 14 15 16	has a value in terms of energy use or there will be fewer energy losses with the efficiency transformer, that will help you identify what those benefits are, both for capacity and energy. So Marginal Cost Study is independent of the need to implement a demand energy rate. Q. So can I assume from what you just said that you believe a demand energy rate can be properly gleaned from the Embedded Cost Study that's been filed, is that right? A. Yes. Q. And Mr. Greneman said, when he was on the stand, that one of the things a Marginal Cost Study could be used for is tweaking those
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	evidence as to that, is it your understanding that that study should be filed in this calendar year, is that correct? A. Marginal Cost Study? Q. Not this calendar year, the following calendar year, 2004? A. Yes. Q. And I guess it sort of jumps out at me that the Marginal Cost Study would not be done in that case prior to the implementation of the Demand Energy Rate Structure? A. No, the two aren't connected. There's no need to connect those two, you can implement the demand energy rate immediately if you have that desire that—the Marginal Cost Study is to identify rate options for Newfoundland	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	has a value in terms of energy use or there will be fewer energy losses with the efficiency transformer, that will help you identify what those benefits are, both for capacity and energy. So Marginal Cost Study is independent of the need to implement a demand energy rate. Q. So can I assume from what you just said that you believe a demand energy rate can be properly gleaned from the Embedded Cost Study that's been filed, is that right? A. Yes. Q. And Mr. Greneman said, when he was on the stand, that one of the things a Marginal Cost Study could be used for is tweaking those rates that either the end-users get or occurs, I guess, from Newfoundland Power is from the
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	Page 53		Page 54
1 1	MR. YOUNG:	1	Q. I wonder if I can refer you to page 13 of Mr.
2	Q. I wonder, Mr. Bowman, if I could refer you to	2	Brockman's evidence, please, and that's his
3	NP-167, please? And this question relates to	3	first evidence and not his Supplemental and
4	marginal cost studies and I think you will	4	this would be at lines 18 to 20. Yes, I'm
5	it's a very straightforward answer, I'll just	5	just going to read a sentence here. It says,
6	read it, "DSM should be evaluated on a	6	"in the report, Stone and Webster suggested
7	marginal cost basis with the constraint being	7	one of the principle reasons for proposing
8	revenue lost", that is the rate impact measure	8	that Newfoundland Power be served under a
9	test. Is this one of the purposes for a	9	demand energy rate, is to give Newfoundland
10	Marginal Cost Study for the end-user or the	10	Power an incentive to engage in more demand
11	retail utility to design these kinds of	11	management". Do you agree with the Stone and
12	programs and rates?	12	Webster report that this could be a reason to
13	A. A Marginal Cost Study would certainly provide	13	favour demand and energy rate structure?
14	useful input to evaluating DSM programs, yes.	14	A. It's one of the potential benefits of having
15	Q. So is that sort of the down the road thing you	15	demand energy rate.
16	were referring to a moment ago, I suppose, to	16	Q. As we just considered though, it's something
17	something that would have to be done up front	17	that could be done independent of that. For
18	before a Demand Energy Rate Structure was	18	example, I just want to explore this, and this
19	done, these are, I think you mentioned these	19	is a point sort of raised by Board Member
20	are not linked, I just want to make sure that		Whalen just a few moments ago, Newfoundland
21	are not miked, I just want to make sure that	20	Power has certain information already from the
1	A. That's correct.	21	Embedded Cost Study and it could use a
22 23	Q. You don't need to do the Marginal Cost Study	22 23	Marginal Cost Study and a carry on its own rate
	for that reason, okay.		design from those things. So, it's not a
24 25	A. Right.	24 25	necessary requirement, but it's just an
23		23	· · ·
	Page 55		Page 56
1	improvement, is that right, for rate design?	1	worth pursuing as a result of that. It won't,
2	A. That's right. It's a benefit, it's not a	2	of course, be based just on the wholesale
3	requirement at all. And, in fact, I think	3	power rate. There's number of societal type
4	most Canadian utilities actually use embedded	4	tests that would be applied, but certainly
5	cost for their standard rates. The	5	Newfoundland Power's primary retailer in the
6	Newfoundland Power study done in 1997	6	province would bethey'd be responsible for
7	surveyed, I think it was 23 Canadian utilities	7	taking the lead on that type of thing, unless
8	and found that 88 percent of them actually use	8	there's some specific government policy that
9	embedded cost for their primary rate	9	Newfoundland Hydro do that.
10	structures.	10	Q. I wonder if I could refer you to page 17 of
11	Q. The next sentence reads there, "Stone and	11	Mr. Brockman's evidence for a moment, this is
12	Webster presented no evidence that such demand	12	lines 21, 22, right at the bottom there. And
13	management potential exists beyond a vague	13	there's a discussion there about the arguments
14	statement in the report about 150 megawatts of	14	back and forth for the sample rate which
15	potential water heater controls". I wonder	15	precedes this, but at the bottom of the page,
16	what you view is of this. Would you expect	16	it says, "in conclusion, there's no evidence
17	the wholesaler to provide this kind of data	17	that Newfoundland Power would or should change
18	and information to the retailer prior to a	18	its retail rate design in response to the
19	load management program being in place, or is	19	sample rate from Hydro". I'm just wondering
20	that something that's the responsibility of the retailer?	20	if you draw the same connection between the
21		21	sample rate from Hydro and Newfoundland Power
22	A. I expect that thewell, Hydro in this case	22	having impetuous to change its retail rate

24

25

please?

design. Could you make a comment about that,

A. First off, there has been evidence submitted

23

24

25

will provide the price signal, Newfoundland

Power will take that price signal and decide

whether or not DSM programs are effective and

		_	
	Page 57		Page 58
1	MR. BOWMAN:	1	putting in place the metering, would be very
2	that indicates that Newfoundland Power will	2	high. The cost of doing so in Newfoundland
3	indeed not respond to the price signal.	3	Power's case, it's being a very large customer
4	They've submitted evidence themselves both Mr.	4	would be justified, at least that'sI'm
5	Brockman and Mr. Perry and Mr. Henderson that	5	basing that on the fact that previous events
6	they won't change their retail rates and it's	6	has not indicated that the cost would be
7	entirely up to them to decide whether or not	7	exorbitantly high.
8	they do. But the fact that they will or won't	8 N	MR. YOUNG:
9	is really immaterial and I'll refer toI	9	Q. So, if Newfoundland Power was to receive a
10	think it'sto a quote, this is a quote from	10	demand energy rate structure from Hydro in the
11	Bonbright, Danielson Kamerschen in the book,	11	form of the sample rate and was to study its
12	Principles of Public Utility Rates. This is	12	own rates for its own customers, its domestic
13	referring to the use of a demand charge. It	13	and other customers and determine at the end
14	says, "whether it is difficult for large	14	of the day that no rate design changes were
15	customers to react to peak rates by changing	15	required. You would not, I assume from what
16	load patterns is irrelevant. The benefit to	16	you've just said, conclude that the demand
17	cost ratio is a criteria for utilization of	17	energy rate was a waste of time or an improper
18	peak tariffs for any class of customers". In	18	pricing mechanism from Hydro to Newfoundland
19	Newfoundland Power's case, they're a very	19	Power, is that -
20	large customer, so the benefit to cost ratio,	20	A. No, there's plenty of other reasons, like I
21	I think everyone agrees, is likely to be	21	say, cost reflection of the two products that
22	greater than one. Sorry, the benefit to cost	22	Newfoundland Power actually purchases from
23	ratio, just to explain that, just means that	23	Newfoundland Hydro and just fairness issues
24	you don't implement demand energy rates for	24	and regulatory precedent, there's a strong
25	small customers because the cost associated of	25	regulatory precedent for demand energy rates
	Page 59		Page 60
	8		Tuge oo
1	for large customers.	1	Doctor Wilson and he actually lists
1 2		1 2	Doctor Wilson and he actually lists Bonbright's principles in there and he
1	for large customers. Q. You just made reference a moment ago to the Bonbright text and I guess the latest edition		Doctor Wilson and he actually lists
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110	veniber 17, 2005 Mult	I-I age	The flydro's 2003 General Rate Application
	Page 61		Page 62
1	MR. BOWMAN:	1	kilowatt hour. Okay. Now, this doesn't have
2	are getting more unstable, both on the	2	demand charge. Normally, you'd like to see a
3	customers side and on the suppliers side. So,	3	demand charge on the rate. It doesn't have a
4	I believe those two components are losing	4	demand charge because these customers are too
5	weight relative to going the other way.	5	small. It wouldn't be cost effective and they
6	MR. YOUNG:	6	wouldn't understand it probably. Now, if you
7	Q. The point you just raised suggests to that	7	look at that energy charge, it's 9.389 cents
8	some of the criteria of good rate design in	8	per kilowatt hour. Ideally, you'd like to
9	Bonbright, they're not easily implemented	9	have that set at your marginal cost of energy.
10	without some sacrifice of another one, is	10	Now, I didn't say as a minimum to marginal
11	that correct? So, is the economic efficiency	11	cost of energy, it should be at the marginal
12	consideration sometimes at odds with rate	12	cost of energy if you're going to send an
13	stability? Are these sometimes things you	13	efficient price signal. Now, the marginal
14	have to give up a little bit on one side to	14	cost of energy is roughly estimated at about 5
15	get a bit more on the other side?	15	cents per kilowatt hour, a cost of energy from
16	A. Yes, that's true. It's a balancing act and I	16	Holyrood. Now, 9.389 is considerably higher
17	think if youactually, maybe a good way to	17	than 5 cents. So, that's sending a very
18	show that isif we go to NLH-216, NP. And if	18	inefficient price signal to that customer
19	you go to page 2 of 5? Now, this is	19	class. But in fairness to Newfoundland Power,
20	Newfoundland Power's rate for general service	20	they really have little choice on this because
21	zero to ten kilowatts, so these are the small	21	its thethey have to collect all the costs in
22	general service customers. If you look at	22	there. So, they got the demand and the energy
23	this rate here, they're got the basic customer	23	costs and that causes it to rise considerably
24	charge at \$18.10 per month. The energy	24	above marginal costs. Now, you might also
25	charge, all kilowatt hours at 9.389 cents per	25	want to look at a two-block rate structure, so
	Page 63		Page 64
1	that the second block is priced at marginal	1	I'd be happy to break or to carry on, it's up
2	cost, but this class is probably got a wide	2	to the board.
3	range of different energy levels. So, they	3 CH	AIRMAN:
4	aren't able to do that, come up with a block	4 (Q. Would you be concluded than five minutes?
5	that's fair to all customers there. So, in	5 BR	OWNE, Q.C.:
6	this case, they've balanced the objectives	6 (Q. Probably not five minutes, no.
7	here and they've been forced to come up with a	7 CH	AIRMAN:
8	rate that doesn't even come close to meeting	8 (Q. Probably not five minutes.
9	the efficiency principle.	9 BR	OWNE, Q.C.:
10	Q. But as you say, that's a requirement because	10	Q. And Ms. Greene has a couple of questions also.
11	of the other attributes of a rate for a group	11	It may be a good time to break because I don't
12	of customers such as this which is	12	think I'll be finished in 10 minutes or so.
13	understandability and ability to collect	13 CH.	AIRMAN:
14	revenue without incurring extraordinary costs,	14 (Q. I think it will be, yes, that's our schedule,
	I suppose to determine what the demands, all	15	10:30. So, we'll reconvene at 10:45 a.m
15			
16	those sorts of other issues, is that correct?	16	Thank you.
16 17	those sorts of other issues, is that correct? A. That's correct, it's a balancing act.	17	(BREAK AT 10:30 A.M.)
16 17 18	those sorts of other issues, is that correct? A. That's correct, it's a balancing act. Q. Mr. Greneman said on Friday that, at least	17 18	(BREAK AT 10:30 A.M.) (RECONVENE AT 10:49 a.m.)
16 17	those sorts of other issues, is that correct? A. That's correct, it's a balancing act. Q. Mr. Greneman said on Friday that, at least some measure of volatility goes hand in hand	17 18 19 GR	(BREAK AT 10:30 A.M.) (RECONVENE AT 10:49 a.m.) EENE. Q.C.:
16 17 18 19 20	those sorts of other issues, is that correct? A. That's correct, it's a balancing act. Q. Mr. Greneman said on Friday that, at least some measure of volatility goes hand in hand with the demand energy rate structure. Would	17 18 19 GRI 20 ((BREAK AT 10:30 A.M.) (RECONVENE AT 10:49 a.m.) EENE. Q.C.: Q. I should advise the Panel that I will not be
16 17 18 19 20 21	those sorts of other issues, is that correct? A. That's correct, it's a balancing act. Q. Mr. Greneman said on Friday that, at least some measure of volatility goes hand in hand with the demand energy rate structure. Would you agree with that?	17 18 19 GRI 20 (21	(BREAK AT 10:30 A.M.) (RECONVENE AT 10:49 a.m.) EENE. Q.C.: Q. I should advise the Panel that I will not be able to be here tomorrow morning, but Mr.
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16 17 18 19 20 21 22	those sorts of other issues, is that correct? A. That's correct, it's a balancing act. Q. Mr. Greneman said on Friday that, at least some measure of volatility goes hand in hand with the demand energy rate structure. Would you agree with that? A. Yes.	17 18 19 GRI 20 C 21 22 23 24 CH.	(BREAK AT 10:30 A.M.) (RECONVENE AT 10:49 a.m.) EENE. Q.C.: Q. I should advise the Panel that I will not be able to be here tomorrow morning, but Mr. Young will be carrying on with the examination

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Page 6.	5	Page 66
1 GREENE. Q.C.:	1	utility in a place as Hydro is dealing with a
2 Q. Again, for work commitments.	2	retailer utility such as Newfoundland Power,
3 MR. KENNEDY:	3	if it was ever determined in a situation like
4 Q. Chairoh, sorry. Chair, just in the absence	4	this where a demand and energy rate was
5 of Ms. Newman, if I could just speak to the	5	proposed that, in fact, the regulator chose
6 scheduling there this morning. It looks like	6	not to accept it and opted instead for an
7 we actually might complete Mr. Bowman at	7	energy only rate? You mentioned I think it
8 either before or near the lunch break as	8	was an outlier, I think might have been your
9 scheduled. So, it's suggested that if that	9	word?
appears to be the case and we only have a few	10	A. Actually, the only two situations I'm aware of
minutes left, that we would just plough ahead	11	are the two that the Industrial Customer
to actually finish Mr. Bowman instead of	12	experts raised on Thursday. I'm notand I
taking the lunch break, if that's acceptable	13	don't know that they said that those two
to the Panel? Thank you, Chair.	14	situations there a demand energy rate was
15 CHAIRMAN:	15	proposed and turned down by the regulator. I
16 Q. No, that's fine. When you're ready, Mr.	16	think they just said that those were two
17 Young?	17	situations where there's an energy only rate.
18 MR. YOUNG:	18	And as I recall, they said in one of those
19 Q. Thank you, Chair. Mr. Bowman, you mentioned	19	situations that has since been changed to a
20 earlier this morning that, I think it's fair	20	demand energy rate. So I'm not aware of any
for me to paraphrase you and correct me if I	21	situations where a demand energy rate has been
do so incorrectly, but demand energy rate	22	proposed to the Board for a large customer
entities such as this is generally preferable.	23	like Newfoundland Power and turned down.
24 I'm wondering if you have any experience or	24	Q. I see. Mr. Bowman, have you had a chance to
25 knowledge of a situation where a wholesaler	25	read the evidence of Mr. Perry and Mr.
Page 6	7	Dama 60
1 age 0	'	Page 68
1 Henderson that's been filed in this matter?	1	RSP, etcetera, with the energy only rate,
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1 MR. BOWMAN:	1 know until we actually implement a demand
2 substantially as a result, then Newfoundland	2 energy rate and see how they actually respond
Power will come in with a rate case, I'm sure.	3 to it.
4 MR. YOUNG:	4 Q. Thank you, Mr. Bowman. Those are my
5 Q. Aside fromand I accept what you're saying,	5 questions, Chair.
6 that they'd come to the Board to get that sort	6 CHAIRMAN:
7 of relief. But aside from that, are there any	7 Q. Thank you, Mr. Young.
8 retail rate design options that they might	8 MR. YOUNG:
9 have or non-rate design options they might	9 Q. But Ms. Greene has an area that she's like to
have like, for example, load management, that	10 -
they may look to address what otherwise may be	11 GREENE. Q.C.:
a volatile earning situation?	12 Q. Good morning, Mr. Bowman.
13 A. Well, there are things that the may decide to	13 A. Good morning.
do within their own operations. For example,	Q. The area that I would like to explore with you
they might implement seasonal rates and the	is your recommendation with respect to a
seasonal rates might send a direct price	separate department for certain parts of
signal to slow down the advance of electric	17 Hydro's rural operations.
heat in the province, for example. So there's	18 A. I just want to clarify, I didn't recommend
risk management things that are, you know,	there be a separate department. I recommend
opportunities available to them as really it	20 that consideration be given and a study be
comes down to a business decision for	conducted to see if there is some value in
Newfoundland Power and just how they decide to	having a separate department.
approach that. I said they have evidence here	Q. And what are the parts of the operation that
that suggests that they won't change their	you would like the study done of?
retail rates. You know, I guess we'll never	25 A. I would like, I would like a study done to
Page 71	Page 72
look at the benefits that might be associated	1 transparent as possible. And a separate
with forming a separate department to manage	2 department I think would improve the
the Isolated Systems. In other words, a	3 transparency.
direct management responsibility with a goal	4 Q. How many customers are served in the Isolated
of supplying reliable power to the those	5 Systems?
6 isolated communities while making the rural	6 A. I think that question would be better directed
7 deficit, or at least that part of the rural	7 to Hydro. I seem to remember something like
8 deficit transparent.	8 1300. Is that -
9 Q. So your recommended concerns the Isolated	9 Q. There's 4,400 customers. If you like, we can
Systems only and not the interconnected part	look at Mr. Wells' pre-filed evidence, page
of the rural operations, is that correct?	25, or do you accept the number as 4000?
12 A. My recommendation is related to the Isolated	12 A. I accept the numbers, yeah.
Systems and it's principally for two or three	13 Q. And do you know how many customers are on the
reasons. One is just that it is a different	14 Island Interconnected System that are served
type of business.	by Hydro? Again, would you accept the number
16 Q. I'm going to come to that.	16 is 21,800?
17 A. Yes. It's fair to say that that business will	17 A. Yes. I recognize there's a big difference.
never make money, it's really more of a	18 Q. And of the Labrador Interconnected System
government social initiative. On the other	there are 8,800 customers. Do you accept that
20 hand, there's a lotI have no concerns about	20 number?
specific subsidies, if it's the government	21 A. Yes.
decides there should be a subsidy, then a	22 Q. So your recommendation concerns the operations
subsidy is fine. But if you're going to have	that Hydro uses to supply the 4,400 customers
	1
24 a subsidy, that subsidy should be made 25 perfectly transparent, or at least as	 in the Isolated Systems, is that correct? A. My recommendation is that a study be done to

11(Weinber 17, 2005 Wit	mu-Pag	e – NL flydro's 2005 General Kate Application
	Page	73	Page 74
1	MR. BOWMAN:	1	you mean by that?
2	determine if it's appropriate to have a	2	A. Well, for example, your diesel system
3	separate department that looks after that part	3	representative, they have much broader skill
4	of the system.	4	sets. I believe Mr. Martin testified when he
5	GREENE, Q.C.:	5	was asked that question, he says, yes, they
6	Q. For those number of customers?	6	have a much different skill set, much broader
7	A. Yes.	7	and they tend to live in the communities where
8	Q. Now, the deficit, the deficit, would you	8	they're working.
9	agree, and again, I can take you to it if you	9	Q. So those are the operations personnel that
10	,	10	actually operate the diesel plants, is that
11	evidence, that the deficit for the isolated	11	correct?
12		12	A. That's what I understand.
13		13	Q. What about for distribution line work, would
14		14	there be a different expertise between a line
15	Ç	15	worker working on a distribution system in an
16	\mathcal{E}	16	isolated community as opposed to in another
17	customer is what's a concern to me.	17	distribution centre?
18	•	18 (1	11:00 a.m.)
19	3	19	A. I'm not aware of any real distribution lines
20	•	20	in any of the isolated systems. I'd say it's
21	•	21	mostly a distribution system.
22	·	22	Q. But again, there would be no difference, would
23	· 1	23	there, if you're working on a distribution
24		24	system in Ramea versus somewhere else?
25	Q. And the different type of skill sets, what do	25	A. I think there is a difference.
	Page	75	Page 76
1		1	since they're based on Newfoundland Power's
2		2	rates.
3		3	Q. In the -
4	,	4	A. I would see that as falling under the customer
5		5	service role that the diesel system
6		6	representative carries out.
7		7	Q. In terms of the actual calculation, a
8		8	determination of the revenue and deficit
9	, ,	9	associated with the Isolated Systems, your
10	3 31 1	10	view is the DSR would do that?
11	goes into the community. Is that your	11	A. No. In terms of answering rate design type
12		12	questions I would say. No, I would say they
13		13	would need, certainly they would need an
14		14	accounting department, yes.
15	• 1	15	Q. Do you foresee it being a separate accounting
16	, and the second	16	department for the Isolated Systems?
17	2	17	A. No. I would see where they purchase, or at
18	1	18	least those costs are tracked.
19	, ,	19	Q. And would that be your approach with respect
20	* * * * * * * * * * * * * * * * * * * *	20	to engineering services or legal services or
21	rates expertise in designing the rates, where would that reside, would there be a difference	21	human resource services as well?
22		22 23	A. It might be. Like I say, I'm advocating a study to determine how those things should be
23		23	handled.
24	A. I don't know that you need a great dear of	24	Ilanuicu.

Q. How do you foresee that they would obtain the

25

rate design expertise in the isolated system

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	Page 77		Page 78
1 (GREENE, Q.C.:	1	recommendations on that. That's why I'm
2	type of expertise if it's not done internally?	2	advocating a study to look at that rather than
3	A. They would contract out for those services,	3	making specific recommendations.
4	possibly Newfoundland Hydro, possibly	4	Q. I think you mentioned one of the reasons for
5	Newfoundland Power, possibly someone else.	5	your recommendation was to make the rural
6	Q. You mentioned in your evidence the experience	6	deficit more transparent?
7	of B.C. Hydro. Are you familiar with the	7	A. Yes.
8	organizational structure of B.C. Hydro?	8	Q. Your concern is only with a portion of the
9	A. Just what I submitted in my evidence.	9	rural deficit, is it, the rural deficit for
10	Q. And in fact, in B.C. Hydro the services that	10	the Isolated Systems?
11	we just talked about, whether it's financial	11	A. I'm concerned what all of the rural deficit
12	rates, engineering services, legal and human	12	and its size. In this case I see the Isolated
13	resources, they're all provided by the broader	13	Systems as being a separate type of business
14	B.C. Hydro, aren't they, similar to what	14	so I was focusing specifically on that.
15	Newfoundland Hydro now does with respect to	15	Q. How is the rural deficit determined?
16	rural operations?	16	A. Like I said at the beginning, I couldn't
17	A. I have no idea.	17	possibly trace back how theI couldn't
18	Q. You haven't had any discussions with any of	18	possibly look at the numbers that we have here
19	those people, have you?	19	and determine just how the rural deficit is
20	A. I don't know how they purchase their services,	20	determined.
21	no.	21	Q. Well, let's stay at the principal level.
22	Q. So you're not sure if they're different or not	22	First, I guess one important factor is the
23	from how this current situation is with Hydro?	23	revenue that's received to supply customers.
24	A. No. If I knew how the isolated system should	24	Would you agree with that?
25	be organized, I would have made	25	A. Sorry, could you repeat that?
	Page 79		Page 80
1	Q. One of the factors that must go into	1	talked about the financial or the legal or the
2	determining the deficit is how much revenue	2	human resources, whatever they are, is that
3	you get for supplying the service. Would you	3	would you agree with that?
4	agree with that statement?		
5	agree with that statement.	4	•
6	A Yes	4 5	A. Well, I believe that's how Hydro is currently
	A. Yes. O. And offset against, the revenue would, be the	5	A. Well, I believe that's how Hydro is currently doing it.
1	Q. And offset against the revenue would be the	5 6	A. Well, I believe that's how Hydro is currently doing it.Q. And another element of the allocated cost
7	Q. And offset against the revenue would be the cost of operations. Would you agree with	5 6 7	A. Well, I believe that's how Hydro is currently doing it.Q. And another element of the allocated cost arises from how the plant is assigned, would
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7 8 9 10 11	Q. And offset against the revenue would be the cost of operations. Would you agree with that?A. Yes.Q. And where your revenue does not cover your cost, you have a deficit. Would you agree	5 6 7 8 9 10 11	 A. Well, I believe that's how Hydro is currently doing it. Q. And another element of the allocated cost arises from how the plant is assigned, would you agree with that? A. Yes. Q. Would you also agree that both the direct and the allocated costs are determined through the
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	Page 81		Page 82
1	GREENE, Q.C.:	1	the Board.
2	questions.	2	Q. Now, I want to turn and have a look at your
3 0	CHAIRMAN:	3	recommendation about the Marginal Cost Study.
4	Q. Thank you, Ms. Greene.	4	And if I take you to your evidence at page 3,
5 K	ELLY, Q.C.:	5	at theit's at part D. And you talk about
6	Q. Thank you, Chair.	6	themake a recommendation for a Marginal Cost
7 0	CHAIRMAN:	7	Study to promote efficient consumption
8	Q. Good morning, Mr. Kelly.	8	decisions. What role do marginal costs play
9 K	ELLY, Q.C.:	9	in promoting efficient consumption decisions
10	Q. Mr. Bowman, while we're on the topic of the	10	by consumers?
11	rural deficit, you talked about having Grant	11	A. To the extent that you can reflect marginal
12	Thornton participate in that or do that study	12	costs in your rate designs, economic theory
13	that you talked about. And do you think it	13	is, is that promotes economic consumption
14	would be useful for them to look at the rural	14	decisions on the part of consumers.
15	deficit as a whole including the Island	15	Q. And what is the marginal costs that we're
16	Interconnected System?	16	talking about, like, what iswhat do we mean
17	A. Yes.	17	by marginal cost in that context?
18	Q. Hydro comes before the Board from time to	18	A. Marginal cost generally relate to the marginal
19	time, for example, for capital projects. Do	19	costs of energy and the marginal costs of
20	you think it would be useful for Hydro to have	20	capacity.
21	to advise the Board of the impact of a	21	Q. And do we look at that both on a short-run and
22	particular capital expenditure on the rural	22	long-run perspective?
23	deficit so that the Board can then assess that	23	A. I would suggest looking at both, yes.
24	impact as one of the factors?	24	Q. Okay. Why are both important?
25	A. I think that would be useful information to	25	A. Well, I feel it's important to look at both so
	A. I tillik tilat would be useful filloffilation to	143	
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1	Page 83 that you can send a forward price signal.	1	Page 84 capacity at a combustion turbine.
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that you can send a forward price signal. Like, in the case of long-run marginal costs, it allows you to send a forward price signal to consumers so consumers make a number of long-term decisions. For example, if you're going to install electric heat, you're probably going to have that electric heating system in there for a long period of time. So I think it's good to recognize long-run marginal costs in your rate structure. Q. And to determine long-run marginal costs do we have to look at the expansion plan for the system when those costs would be incurred and then work them back to a kind of a net present value, is that the basic process? A. It's helpful to do that, but there are other ways of doing it. Like, the marginal cost of capital, marginal cost of capacity is normally capped at the price of the peaking, favoured peaking option in the jurisdiction, for example, a combustion turbine. So there's-actually, the process followed in Newfoundland Power's 1997 study follows the National	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Page 84 capacity at a combustion turbine. Q. Should those marginal cost principals also be reflected in the retail rate design? A. I think it's good to do so, but I would also say that it's important to take into consideration how long you expect that rate to be effective. If your rate was only going to be effective for the next two years and in a case like Newfoundland and Labrador where you don't expect new capacity to be coming on stream for another six years, then you might not want to place much emphasis on the longer term, as much emphasis on the longer term. Q. Okay. The customers that you refer to in, at line 19 and 20 would be which customers? A. I'm specifically referring to the end use customers there. Q. Okay. So that would bewould that include Hydro's Rural Interconnected customers, those on the same rates as Newfoundland Power's rates? A. I would like consideration given to that. Q. Okay. And so it would include Newfoundland

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1	MR. BOWMAN:	1	1	Industrial Customers and I guess the Consumer
2	A. Well, I would expect Newfoundland Power to	2	2	Advocate.
3	look at its own customers.	3	3 (Q. And would those terms of reference be set by
4	KELLY, Q.C.:	4	1	the Board?
5	Q. Okay.	5	5 .	A. I would like the Board to approve those terms
6	A. And Newfoundland Power has, in fact, done	6	5	of reference, yes.
7	that.	7	7 (Q. Okay. Do you think it would be useful for
8	Q. Okay. Now, thehow do you see, first of all,	8	3	Newfoundland Power to update the marginal
9	the time frame for a Marginal Cost Study, how	9)	costs of its transmission and distribution so
10	long do you think it would take, could it be	10)	that we have an integrated marginal cost for
11	done fairly quickly?	11	l	the entire Interconnected System?
12	A. I think if you follow the format used by	12	2 .	A. Well, I'd like to see them determine the
13	Newfoundland Power back in '97, I think you	13	3	marginal costs on their system and I would
14	could do that fairly quickly over a couple of	14	1	leave it up to Newfoundland Power to determine
15	months. But you could referyou could ask	15	5	their own marginal costs. I don'tlike,
16	your own people how long it took them to do	16	5	Newfoundland Power has already done their own
17	that study.	17	7	Marginal Cost Study. They probably have a
18	Q. And what role do you see for the various	18	3	pretty fair idea of what their marginal costs
19	parties and the Board in setting the terms of	19)	are, at least they know how to update that
20	reference for that study and how it should	20)	study.
21	proceed?	21		Q. And that was done in 1997. And my question is
22	A. I would like to see the principal stakeholders	22		would you think it useful as part of the
23	at least have the opportunity to review the	23		process of getting the marginal costs for the
24	terms of reference of that study. And I	24		whole Island Interconnected System that
25	include there Newfoundland Power, the	25		Newfoundland Power update its costs for
	Page 87			Page 88
1	transmission and distribution?	1	1	Study is included in my evidence. That's what
2	A. I would like to see Newfoundland Power submit	2		I'm recommending.
3	input necessary for Newfoundland Hydro to	3		Q. Okay. So you would support the concept of
4	carry out its Marginal Cost Study, the same as	4		doing a Retail Rate Design Study?
5	I would expect the Industrial Customers to do	5		A. I support that concept. I actually
6	so.	6		recommended that back in '95 for Newfoundland
7	Q. Now, if I take you to Mr. Brockman's	7		Power and they actually did carry out that
8	supplementary evidence at page 1, and his	8		study.
9	recommendation 1, is that the Marginal Cost	9		Q. Okay. Now, the demand energy, the wholesale
10	Study be completed and that there also be a	10		rate, whether it's energy only or demand
11	Retail Rate Design Study. And the purpose of	11		energy, the wholesale rate issue, Mr.
12	that, so that we can look at also making the	12		Greneman's proposals are based on imbedded or
13	retail rate designs as efficient as possible.	13		historical costs, aren't they?
14	Would you support that in principal, that the			1:15 a.m.)
15	retail rate design should be as efficient as	15	,	A. I think it's a mix. It's the demand charge
16	possible?	16		comes out of the Cost of Service Study, and I
17	A. I believe that you should incorporate	17		think an attempt was made to reflect marginal
18	efficient price signals in the retail rate	18		energy costs in the energy charge, the fact
19	design to the extent possible.	19		that he's got a two block rate structure.
20	Q. So would you support a Retail Rate Design	20		Q. Certainly the demand charge, you'd agree with
21	Study?	20		me, is purely an embedded cost, historical
22	A. I have supported a Retail Rate Design	22		cost?
23	actually, I can read back my recommendation	23		A. Yes. And I guess there's a number of ways to
[23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23	, ,	1. 1. (1. 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

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look at that. Like, if you go back to 1992

when the province was looking at a demand

here to you, but basically my recommendation

on the Marginal Cost Study, Retail Rate Design

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1 1	MR. BOWMAN:	1	information requests. And I should clarify
2	energy rate, at that time a question was posed	2	that. The 5.13 cents per kilowatt hour figure
3	to Mr. Brockman if he would accept a demand	3	is just a number. Now, I think Mr. Haynes
4	energy rate where the energy rate was set at	4	explained that that was set on the basis of an
5	marginal cost and the demand charge was set at	5	oil price of \$29.20, I think. And just, you
6	a residual, in other words, to collect the	6	know, just to show with marginal costs you're
7	remainder of the revenue requirement, and he	7	looking at a lot of potential volatility,
8	was agreeable to that type of thing. So	8	okay. Now, that figure is based on a specific
9	there's not as much emphasis generally placed	9	cost of oil, it's based on a specific output
10	in the demand component in terms of marginal	10	level at Holyrood and it's based on a specific
11	cost as there is in the energy component.	11	point, off take point on the system. In other
12 I	KELLY, Q.C.:	12	words, if you take the power off the system at
13	Q. In thein Mr. Greneman's proposal the price,	13	the transmission level, it's going to be one
14	whether we look at it in the two block	14	charge; if you take it off the distribution
15	structure or the question that Mr. Kennedy	15	system, you're going to add a loss component
16	posed this morning, if you have it in one	16	in there that might increase it by another ten
17	block, the energy price is below the short-run	17	percent. And just to give you, you know,
18	marginal cost of Holyrood?	18	further clarification on the volatility of
19	A. Sorry, if you look at the energy charge that	19	these numbers, we're doing the market rules
20	comes out of the Cost of Service Study?	20	for a new market in western Australia right
21	Q. The energy charge in Mr. Greneman's proposal	21	now, and it's not a large system, it's about a
22	is below the short-run marginal cost at	22	2700 megawatt system, not that much larger
23	Holyrood?	23	than Newfoundland. The generators will be
24	A. Yes. It's belowwell, it's below the	24	submitting offers to sell their power for
25	standard type figure given in one of the	25	every half hour. So by noon today they'll
	Page 91		Page 92
1	submit 48 offers for the next day to sell	1	But the point I'm making here is to think that
2	their power. Okay, within each of those	2	you're going to have a perfect price signal
3	offers they're allowed to submit up to 10	3	out of this is incorrect. The point I'm
4	price quantity pairs. Now, those price	4	making is these costs change, in western
5	quantity pairs recognize the fact that every	5	Australia's case, every half hour, potentially
6	generating unit has different costs for	6	every half hour. So while marginal costs are
7	different places on its load curve, okay. So	7	a good wayI think they should be embedded in
8	if a 100 megawatt generator is dispatched at	8	your rates or included in your rates, you have

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if a 100 megawatt generator is dispatched at 9 10 megawatts, it's going to have much higher cost than if it's dispatched at 100 megawatts. 10 11 So potentially you could have for each generating unit in that system, you could have 12 13 48--480 prices for the next day. So I'm just clarifying that marginal costs can be very 14 15 volatile, they're dependent on a number of factors and those things change. And just 16 17 another example of that, we have 5.13 cents per kilowatt hour today, in the hearing two 18 19 years ago we had 4.6 cents per kilowatt hour and back in '97, that Newfoundland Power 20 study, we had 4.0 cents per kilowatt hour. So 21 22 that number is going to move around some. 23 Q. And do we need to update a Marginal Cost Study

your rates or included in your rates, you have to understand the shortcomings of them. They are not, by no means, a perfect price signal. And in fact, that volatility is why a lot of utilities still just use embedded cost principals.

- Q. Would you agree that in principal it would be preferable for the Board to look at the wholesale rate issue as the retail rate issues at the same time?
- 18 A. I don't see any need to do that. This 19 wholesale rate issue has been going on for, what, 14 or 15 years. 20
 - Q. At page 4 of your evidence as you talk about the wholesale rate issue at line 5, you talk about force a resolution of the issue. Why do you think it is important to force a resolution of the issue rather than have these

A. Well, you need to update it from time to time.

from time to time?

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Rell.Y.Q.C. 1 two matters dealt with together? 2 two matters dealt with together? 3 A. Well. I would have liked to have seen Newfoundland Power and Newfoundland Hydro get together on demand energy rate and resolve the issue. But the fact is, it hasn't been resolved in 15 years. In this-I mean, Hydro made it very clear that what they were proposing in this rate hearing, like they were proposing a demand energy rate. They made it very clear that they wanted to resolve these three or four issues with Newfoundland Power ower the course of the hearing, and in the mediation session, carlier this year, if you look at the report, it says that, like both prover and Consaurer Adviceate signed off on, it was quite clear that this rate was coming. Yet, Newfoundland Power is still not agreeable to any demand energy rate. Like hely've proposed it. and can I take you to page five of that hearing? And at the bottom of the first column at line 49, Ms. Butler asked you this question "and what does a cost of service expert, such as yourself, need to design or recommend rates to a Board like this?" Answer: Twould have preferred to use seem manginal costs. "Ms. Butler: Wholl have preferred but what doy ou need to design or recommend rates to a Board?" A Answert. For me to design a rate, I would like to know what the marginal costs? power is not going to just accept this race. Page 95 reflect your view, Mr. Bowmann? A I would still-for me to design a rate, I didn't design a rate in the specific application because one had already been submitted. Q Colld you make an appropriate recommendation without having marginal costs? Colled in the remaining costs of certery are, so I have enough information to design a rate ere. I didn't design a rate in the specific signals in my rates, but certainly the norm is to use embedded costs. I prefer to incorporate marginal costs? Colled in the remaining costs of certage are, so I have enough information to design a rate ere. I didn't design a rate in	110	vember 17, 2005 Wint			The frydro's 2003 General Rate Application
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together on demand energy rate and resolve the sissue. But the fact is, it hasn't been resolved in 15 years. In thisI mean, Hydro made it very clear that what they were proposing in this rate hearing, like they were proposing a demand energy rate. They made it very clear that they warted to resolve these two course of the mediation sessions or over the course of the mediation session, earlier this year, if you look at the report, it says that, like both the mediation session, earlier this year, if you look at the report, it says that, like both the mediation session, earlier this year, if you to was quite clear that this rate was coming. 19 Yet. Newfoundland Power is still not agreeable to any demand energy rate. Like they 've proposed it. 10 Q. Could your propose a rate? 21 Q. No., and why not? Perhaps I'd take you to your testimony. Let's go to December 6th, 2001, and can I take you to page five of that hearing? And at the bottom of the first column at line 49, Ms. Butter asked you this required to see some marginal costs of service expert, such as yourself, need to design or recommend rates to a Board like this?" Answer: To we to design a rate, I would like to know what the marginal costs or I have the marginal costs or I have the marginal costs or law to go the proposed it. 22 A I would still—for me to design a rate, I would need to design or recommendations." Ms. Butter says "okay" and you say "I say I'm the only rate design application because one had already been submitted. 23 A Lould. I could make an appropriate recommendation without having marginal costs? 24 a Lould. I could make an appropriate recommendation to design a wholesale demand en	3	•	3		· · · · · · · · · · · · · · · · · · ·
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1	MR. BOWMAN: information I falt to design an appropriate	1	designed the rate, no.
$\frac{1}{2}$		2	Q. It's not how you would have designed it. How
3		3	would you have designed it?
1	KELLY, Q.C.:	4	A. Well, I would have liked to have known what
5		5	the marginal costs were so I would have
6	Z ,	6	probably loaded more of the demand cost into
7		7	the winter peak period.
8		8	Q. And if you were designing it, would it be fair
9	-	9	to say that what you would be trying to
10		10	achieve is efficiency?
11	costs. I do have that 5.13.	11	A. I would have been trying to achieve further
12		12	efficiency.
13	6 1	13	Q. Further, okay, that's fine, I'll accept that.
14	e	14	In other words, you want to make the rates as
15	•	15	efficient as possible, and would -
16		16	A. Well, no, I wouldn't say that. I wouldn't say
17	6	17	as efficient as possible because if you're
18	e e	18	going to make it as efficient as possible,
19	•	19	then you'd need to change it every half hour.
20		20	Q. And in fact, I'll accept that qualification
21	Q. Isn't that the case?	21	because you'd also have to balance certain
22	5 1	22	other issues of fairness and historical
23		23	context, et cetera. There is a balancing
24	1 1	24	role?
25	appropriate. That's not how I would have	25	A. That's right.
			-
	Page 99		Page 100
1	Q. Right. But within that balancing role, you	1	marginal costs, and you'll note that in the
1 2	Q. Right. But within that balancing role, you want to have your rates as efficient as	1 2	marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail
1	Q. Right. But within that balancing role, you want to have your rates as efficient as possible, and would you alsowould you agree		marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail tail block is below short-run marginal costs?
2	Q. Right. But within that balancing role, you want to have your rates as efficient as possible, and would you alsowould you agree with me that that's you want to have your	2	marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail tail block is below short-run marginal costs? A. Below the current figure that's being accepted
2 3	Q. Right. But within that balancing role, you want to have your rates as efficient as possible, and would you alsowould you agree with me that that's you want to have your retail rates as efficient as possible?	2 3	marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail tail block is below short-run marginal costs? A. Below the current figure that's being accepted as the short-run marginal cost.
2 3 4	Q. Right. But within that balancing role, you want to have your rates as efficient as possible, and would you alsowould you agree with me that that's you want to have your retail rates as efficient as possible?A. I'll accept having two sets of retail rates,	2 3 4	marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail tail block is below short-run marginal costs? A. Below the current figure that's being accepted as the short-run marginal cost. Q. Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Right. But within that balancing role, you want to have your rates as efficient as possible, and would you alsowould you agree with me that that's you want to have your retail rates as efficient as possible? A. I'll accept having two sets of retail rates, one based on embedded costs and then an optional rate based on marginal cost principles. Q. Well, would you not want to have, consistent with what you said earlier, your energy costs in your retail rates at least at the marginal cost of production? A. No, I wouldn't say that at all. They should be at marginal costs, not at least at marginal cost. Q. Okay. Well, they should be at marginal cost. I'll accept your language. Let me just take you to CA-236 for a moment. Mr. Young asked you a few questions about Newfoundland Power's 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail tail block is below short-run marginal costs? A. Below the current figure that's being accepted as the short-run marginal cost. Q. Yes. A. Yes. Q. What would you say to that? A. I wouldn't worry too much about that. Q. Okay. Why? A. Because, like I said, marginal costs move around substantially. Q. Would you like to see them move up to the marginal cost, the short-run marginal cost? A. Well, I'd like to know a little more information about marginal costs going forward. Like I'm not sure if 29.20 per barrel of oil is a high number or what we expect, so I'm not sure there's enough variation there that I would change these.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Right. But within that balancing role, you want to have your rates as efficient as possible, and would you alsowould you agree with me that that's you want to have your retail rates as efficient as possible? A. I'll accept having two sets of retail rates, one based on embedded costs and then an optional rate based on marginal cost principles. Q. Well, would you not want to have, consistent with what you said earlier, your energy costs in your retail rates at least at the marginal cost of production? A. No, I wouldn't say that at all. They should be at marginal costs, not at least at marginal cost. Q. Okay. Well, they should be at marginal cost. I'll accept your language. Let me just take you to CA-236 for a moment. Mr. Young asked you a few questions about Newfoundland Power's rate and he took you to category 2.1. If you 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail tail block is below short-run marginal costs? A. Below the current figure that's being accepted as the short-run marginal cost. Q. Yes. A. Yes. Q. What would you say to that? A. I wouldn't worry too much about that. Q. Okay. Why? A. Because, like I said, marginal costs move around substantially. Q. Would you like to see them move up to the marginal cost, the short-run marginal cost? A. Well, I'd like to know a little more information about marginal costs going forward. Like I'm not sure if 29.20 per barrel of oil is a high number or what we expect, so I'm not sure there's enough variation there that I would change these. Q. So you'd like some more information on
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Right. But within that balancing role, you want to have your rates as efficient as possible, and would you alsowould you agree with me that that's you want to have your retail rates as efficient as possible? A. I'll accept having two sets of retail rates, one based on embedded costs and then an optional rate based on marginal cost principles. Q. Well, would you not want to have, consistent with what you said earlier, your energy costs in your retail rates at least at the marginal cost of production? A. No, I wouldn't say that at all. They should be at marginal costs, not at least at marginal cost. Q. Okay. Well, they should be at marginal cost. I'll accept your language. Let me just take you to CA-236 for a moment. Mr. Young asked you a few questions about Newfoundland Power's rate and he took you to category 2.1. If you have a look at this table, if we scroll it up 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail tail block is below short-run marginal costs? A. Below the current figure that's being accepted as the short-run marginal cost. Q. Yes. A. Yes. Q. What would you say to that? A. I wouldn't worry too much about that. Q. Okay. Why? A. Because, like I said, marginal costs move around substantially. Q. Would you like to see them move up to the marginal cost, the short-run marginal cost? A. Well, I'd like to know a little more information about marginal costs going forward. Like I'm not sure if 29.20 per barrel of oil is a high number or what we expect, so I'm not sure there's enough variation there that I would change these. Q. So you'd like some more information on marginal cost. If you did change that energy
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Right. But within that balancing role, you want to have your rates as efficient as possible, and would you alsowould you agree with me that that's you want to have your retail rates as efficient as possible? A. I'll accept having two sets of retail rates, one based on embedded costs and then an optional rate based on marginal cost principles. Q. Well, would you not want to have, consistent with what you said earlier, your energy costs in your retail rates at least at the marginal cost of production? A. No, I wouldn't say that at all. They should be at marginal costs, not at least at marginal cost. Q. Okay. Well, they should be at marginal cost. I'll accept your language. Let me just take you to CA-236 for a moment. Mr. Young asked you a few questions about Newfoundland Power's rate and he took you to category 2.1. If you have a look at this table, if we scroll it up a little bit, Mr. O'Reilly, if you could? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail tail block is below short-run marginal costs? A. Below the current figure that's being accepted as the short-run marginal cost. Q. Yes. A. Yes. Q. What would you say to that? A. I wouldn't worry too much about that. Q. Okay. Why? A. Because, like I said, marginal costs move around substantially. Q. Would you like to see them move up to the marginal cost, the short-run marginal cost? A. Well, I'd like to know a little more information about marginal costs going forward. Like I'm not sure if 29.20 per barrel of oil is a high number or what we expect, so I'm not sure there's enough variation there that I would change these. Q. So you'd like some more information on marginal cost. If you did change that energy component, where would thatwhere would it
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Right. But within that balancing role, you want to have your rates as efficient as possible, and would you alsowould you agree with me that that's you want to have your retail rates as efficient as possible? A. I'll accept having two sets of retail rates, one based on embedded costs and then an optional rate based on marginal cost principles. Q. Well, would you not want to have, consistent with what you said earlier, your energy costs in your retail rates at least at the marginal cost of production? A. No, I wouldn't say that at all. They should be at marginal costs, not at least at marginal cost. Q. Okay. Well, they should be at marginal cost. I'll accept your language. Let me just take you to CA-236 for a moment. Mr. Young asked you a few questions about Newfoundland Power's rate and he took you to category 2.1. If you have a look at this table, if we scroll it up a little bit, Mr. O'Reilly, if you could? Thank you. It compares the current retail 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	marginal costs, and you'll note that in the 2.2, 2.3 and 2.4 rates, the current retail tail block is below short-run marginal costs? A. Below the current figure that's being accepted as the short-run marginal cost. Q. Yes. A. Yes. Q. What would you say to that? A. I wouldn't worry too much about that. Q. Okay. Why? A. Because, like I said, marginal costs move around substantially. Q. Would you like to see them move up to the marginal cost, the short-run marginal cost? A. Well, I'd like to know a little more information about marginal costs going forward. Like I'm not sure if 29.20 per barrel of oil is a high number or what we expect, so I'm not sure there's enough variation there that I would change these. Q. So you'd like some more information on marginal cost. If you did change that energy

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	Page 101		Page 102
1 1	MR. BOWMAN:	1	A. Yes.
2	expected to be in the future.	2	Q. That was achieved and put in place without
3	KELLY, Q.C:	3	having a demand energy wholesale rate?
4	Q. No, but if you adjusted the rates in	4	A. That's correct.
5	categories 2.2 to 2.4 and you did increase the	5 (1	1:30 a.m.)
6	cost for the energy, where would you take that	6	Q. Okay. And so one of the things that you think
7	from? Because you'd still have to end up with	7	might have to be done here is we might
8	the same revenue at the end of the day from	8	actually have to reduce the demand charge to
9	those classes, do you not?	9	those consumers to increase the energy tail
10	A. Yes.	10	block rate to get it to the short-run marginal
11	Q. So where would you take it from, if you	11	costs. Is that essentially -
12	increased the energy component -	12	A. Well, you may or may not have to.
13	A. Oh, I see.	13	Q. You may or may not have to. How would you
14	Q to bring it to marginal cost?	14	know whether you need to or not? Would you do
15	A. I would probably take it out of the demand	15	a retail rate design study?
16	component.	16	A. In this case, well, I had my opportunity
17	Q. So you'd have to -	17	earlier this year and I didn't recommend any
18	A. Or I might look at a block energy rate.	18	changes to these rates.
19	Q. So you might have to take it out of demand or	19	Q. Okay. Now -
20	you might have to do something else?	20	A. Now it might bebefore we leave this, I think
21	A. Yes.	21	it's worth, like let's just discuss that GS
22	Q. Now, okay, well, if wedoes that not help	22	1000 kVA and over. Like you said, that is a
23	first of all, in this case, we have a demand	23	demand energy rate.
24	energy rate at the consumer level already for	24	Q. Yes.
25	these large users, do we not?	25	A. Now if we go to Exhibit LCH-1, page five of
	Page 103		9
1	six, that's under Perry and Henderson	1	Page 104 A. That's correct.
1 2	six, that's under Perry and Henderson prefiled. LCH-1, page five. Yes, right	1 2	A. That's correct. Q. Right, okay. And one could adjust that rate
1	six, that's under Perry and Henderson prefiled. LCH-1, page five. Yes, right there, General Service 1000. So this is a		A. That's correct. Q. Right, okay. And one could adjust that rate as we just talked about without having to have
2	six, that's under Perry and Henderson prefiled. LCH-1, page five. Yes, right there, General Service 1000. So this is a discussion by, I assume, Mr. Henderson talking	2	A. That's correct. Q. Right, okay. And one could adjust that rate as we just talked about without having to have a change in the wholesale rate structure,
2 3	six, that's under Perry and Henderson prefiled. LCH-1, page five. Yes, right there, General Service 1000. So this is a discussion by, I assume, Mr. Henderson talking about the General Service 1000 kVA and over.	2 3	A. That's correct. Q. Right, okay. And one could adjust that rate as we just talked about without having to have a change in the wholesale rate structure, couldn't one?
2 3 4	six, that's under Perry and Henderson prefiled. LCH-1, page five. Yes, right there, General Service 1000. So this is a discussion by, I assume, Mr. Henderson talking about the General Service 1000 kVA and over. So the rate we were just talking about has a	2 3 4	A. That's correct.Q. Right, okay. And one could adjust that rate as we just talked about without having to have a change in the wholesale rate structure, couldn't one?A. It could be adjusted, yes.
2 3 4 5 6 7	six, that's under Perry and Henderson prefiled. LCH-1, page five. Yes, right there, General Service 1000. So this is a discussion by, I assume, Mr. Henderson talking about the General Service 1000 kVA and over. So the rate we were just talking about has a demand charge and an energy charge, and if you	2 3 4 5 6 7	 A. That's correct. Q. Right, okay. And one could adjust that rate as we just talked about without having to have a change in the wholesale rate structure, couldn't one? A. It could be adjusted, yes. Q. It could be adjusted. Now the question of the
2 3 4 5 6	six, that's under Perry and Henderson prefiled. LCH-1, page five. Yes, right there, General Service 1000. So this is a discussion by, I assume, Mr. Henderson talking about the General Service 1000 kVA and over. So the rate we were just talking about has a demand charge and an energy charge, and if you look at the bottom there, it says "rate 2.4"	2 3 4 5 6	 A. That's correct. Q. Right, okay. And one could adjust that rate as we just talked about without having to have a change in the wholesale rate structure, couldn't one? A. It could be adjusted, yes. Q. It could be adjusted. Now the question of the wholesale rate and the retail rate design
2 3 4 5 6 7 8 9	six, that's under Perry and Henderson prefiled. LCH-1, page five. Yes, right there, General Service 1000. So this is a discussion by, I assume, Mr. Henderson talking about the General Service 1000 kVA and over. So the rate we were just talking about has a demand charge and an energy charge, and if you look at the bottom there, it says "rate 2.4 was created to ensure that larger general	2 3 4 5 6 7 8 9	 A. That's correct. Q. Right, okay. And one could adjust that rate as we just talked about without having to have a change in the wholesale rate structure, couldn't one? A. It could be adjusted, yes. Q. It could be adjusted. Now the question of the wholesale rate and the retail rate design issues were originally together, weren't they,
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Page 105	
1 KELLY, Q.C.:	1 rate be implemented. Newfoundland Power will
2 me that issues of revenue volatility also have	2 look at that, will gauge the impact on its
an effect on rate stability?	3 revenue volatility and the volatility it might
4 A. Yes.	4 have on its customers, and I'm sure won't be
5 Q. Why is that the case?	5 shy about coming into this Board and asking
6 A. Newfoundland Power is going to pass through	6 for adjustments if necessary.
7 well, Newfoundland Power is going to adjust	7 Q. I'm not so much concerned at this stage about,
8 its rates to reflect any over collection or	8 in this line of question. What I'm concerned
9 under collection at some point, once it	9 about is the customers, the end-use customers
10 exceeds a certain level.	and what your view is as to how those end-use
11 Q. Okay. So that an earnings volatility issue	customers, you know, the people of this
also affects a question of rate stability.	province, should be impacted. And so have you
Now there have beenthere are, in the	looked at any of these issues at all?
evidence, and in the testimony given, at least	14 A. Certainly when I saw in the application that
as I count them, three potential suggestions	the application is for a 30 percent rate
to deal with volatility issues, and I'm	increase for the Industrial Customers,
curious, as an expert, to get your comments on	certainly revenue stability was an issue for
those. Mr. Greneman, on the stand, suggested	18 me, yes.
that one possibility, admittedly he hadn't	19 Q. Okay. So revenue stability or rate stability?
studied it, was to change the range of the	20 A. Well, rate stability, yes.
rate of return for Newfoundland Power. What	21 Q. Okay. So is there any comment you would make
do you, as an expert, think of that?	pro or con on the question of expanding the
23 A. Like I said earlier, I don't know how this is	23 range or would you be inis that something
24 going to impact on Newfoundland Power's	24 you're in favour of or against?
revenues. What I suggest is the demand energy	25 A. The range of what?
Page 107	Page 108
1 Q. The range of return, because that was a	1 regulator to approve a rate increase to pass
2 proposal put forward or not a proposal, a	2 through increased costs. Now, while
2 proposal put forward or not a proposal, a 3 suggestion -	 through increased costs. Now, while obviously, because in terms of concept, which
2 proposal put forward or not a proposal, a 3 suggestion - 4 BROWNE, Q.C.:	 through increased costs. Now, while obviously, because in terms of concept, which of those two would you view as appropriate?
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	Page	109	Page 110
1	1 HUTCHINGS, Q.C.:	1	that report. There we are. Okay. What
1	2 refer you to page 12 of your pre-filed	2	you're referring to as Option 3 in your
1	evidence, and specifically at lines 20 to 23.	3	evidence, Mr. Bowman, I believe is referred to
1	4 You refer there to the issue of the	4	as Option C in the Stone and Webster report?
1	5 Newfoundland Power generation credit and, as	I 5	A. I'll have to accept that you tell me that it
1	6 understand it, you're expressing a preference	6	is. I don't know or I can't see a reference
1	for Option 3 from the Stone and Webster repor	t 7	to Optionmaybe if we scroll down the page I
1	8 for the reasons that you state. Is that	8	can see what Option C is.
1	9 correct?	9	Q. It's over at the top of the next page
1	10 A. I don't think I said a preference. I said I'd	10	actually.
1	like to see further consideration given to	11	A. Oh, next page.
1	that option.	12	Q. Option C.
1	13 Q. Okay. And you've identified some benefits	13	A. Okay. I'll accept that that Option C relates
1	that you see from that option?	14	to Exhibit RDG-2. I don't see a specific
1	15 A. Well, like I said, I'd have to see further	15	reference in there that it's the same option.
1	consideration. I do see some discrepancies in	16	Q. No, I mean, I guess I'm just trying to confirm
1	the whole issue of the generation credit. I	17	that what you call Option 3 is there what they
1	certainly am sympathetic to the evidence put	18	call Option C.
1	forward by the Industrial Customers.	19	A. I don't know if it is or not, I'm sorry.
1	20 Q. Okay. Just so we're clear, if we go to RDG-2,	20	Q. Okay.
1	which is the review of rate design for	21	A. I assume it is, but I don't know that.
1	Newfoundland Power, Stone and Webster repo	ort, 22	Q. All right. Can you just tell us where you got
1	at page 25, which is the Appendix 3, couple of	23	the reference to Option 3?
1	pages from the end. No, that's the Oil Risk	24	A. RDG-2. Well, sorry, is this -
1	25 Management Report you're in there. Page 25 o	f 25	Q. This is RDG-2.
	Page	: 111	Page 112
1	1 A. Oh, this is RDGoh sorry, I thought this was	1	phrase it, I guess. The other, I guess
1	the Industrial Customers evidence. Okay,	2	ideally, and I think EES recommended this, but
1	Option C. Actually, if you go up, if we look	3	I would like to see more of an arm's length
1	at the text, I guess, I would know.	4	agreement between Newfoundland Power and
1	5 Q. Okay.	5	Newfoundland Hydro, and like you have
1	6 A. Just where they define Option 3.	6	Newfoundland Hydro has contracts with the non-
1	7 Q. Can we look at starting on page six then and	7	utility generators and contracts with its
1	8 over to page seven?	8	Industrial Customers. I agree with EES that I
1	9 A. Okay, Option C, okay.	9	think it would be better to have a contract
1	10 Q. And that is what -	10	with Newfoundland Power with regards to its
1	11 A. I guess I said Option 3 rather than Option C.	11	generation and the benefits that it provides.
1	12 Q. Okay. And that is what you intended to refer	12	But that's not being recommended here. It's
1	13 to -	13	just here it's an attempt to reflect that type
1	14 A. Yes.	14	of an arrangement.
1	15 Q as Option 3?	15	Q. Okay. And this Option C, as reflected here,
1	16 A. Yes.	16	does have the benefit of using an actual
1	17 Q. Okay. And this is, as you point out,	17	metered number to bill Newfoundland Power?
-1	consistent with the treatment of Industrial	18	A. Yes.
	Customer generation, essentially allowing	. 19	Q. Yes, okay. Thank you, Mr. Bowman. That's all
-1	Newfoundland Power to properly manage that		I have, Mr. Chair.
-1	accordance with the power policy of the		CHAIRMAN:
-1	province and have control of their own system	22	Q. Thank you, Mr. Hutchings. Mr. Kennedy?
-1	and get proper credit for it when it is used?		MR. KENNEDY:
-1	Is that essentially correct?	24	Q. Thank you, Chair. Just a couple of questions,
J	25 A That's assentially somest That's and way to		Mr. Dowmon Voy indicated in examination by

Mr. Bowman. You indicated in examination by

A. That's essentially correct. That's one way to

·	-1 age TVL Hydro 8 2003 General Rate Application
Page 113	Page 114
1 MR. KENNEDY:	1 adjustments to a couple of the components.
2 counsel for Newfoundland Power that if you	2 Q. And fair to characterize that then as being
3 were to design a wholesale rate, a demand	3 variations on the same theme?
4 wholesale rate yourself, you would design it	4 A. That's how I regard it.
5 differently in some aspects than the one	5 Q. And so given the proposal put forward by Stone
6 that's proposed and as designed by Stone and	6 and Webster, would you consider it to be
7 Webster, correct?	7 somehow fatally flawed?
8 A. I think it's fair to say that if you putgave	8 A. No.
9 ten different rate designers the same mandate	9 Q. Will it, as proposed, in your view, encourage
that you gave Stone and Webster, you'd	10 uneconomic use of public resources?
probably get ten different rates.	11 A. I think it will -
12 Q. So -	12 Q. By encouraging waste?
13 A. I think it's fair to say that I would have	13 A. No, I think it will encourage more efficient
probably come up with something different.	use of resources over the current energy only
Q. And you've had an opportunity, I presume, to	15 rate.
look at the EES report, including the section	16 Q. That's all the questions I have. Thank you,
dealing with the proposed wholesale rate?	17 Chair. Thank you, Mr. Bowman.
18 A. Yes.	18 CHAIRMAN:
19 (11:45 a.m.)	19 Q. Thank you, Mr. Kennedy. Mr. Browne, do you
20 Q. And they make some of their own	20 have any redirect?
recommendations concerning variations that	21 BROWNE, Q.C.:
could be made to the proposed wholesale demand	22 Q. Yes, a few there. Mr. Bowman, as you are
23 rate?	23 aware, Newfoundland Power has just gone
24 A. Yes, I think they basically supported the	24 through a lengthy rate hearing this spring
25 sample rate, but like you say, with some	25 following which the Board ordered that
· · · · · ·	Page 116
Page 115	Page 116
Page 115 Newfoundland Power's entitled to a specific	1 energy rate is appropriate. It only assists
Page 115 Newfoundland Power's entitled to a specific revenue requirement. Would the implementation	energy rate is appropriate. It only assists with perhaps what the rate structure itself
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110	vember 17, 2003 Mult	1-P	age "NL Hydro's 2003 General Rate Application
	Page 117		Page 118
1	COMMISSIONER WHALEN:	1	doing that any more. There's always
2	minimizes its power purchase cost as a	2	shortcomings in any rate. Like I said, the
3	negative outcome and in fact, support it,	3	
4	provided the eventuality is properly accounted	4	
5	for in the rate design and cost of service	5	
6	study." Could you just expand on that last	6	
7	part of that sentence in terms of how the	7	·
8	eventuality can be properly accounted for in	8	
9	the rate design? That's Newfoundland Power's	9	
10	rate again, the wholesale rate to Newfoundland	10	
11	Power?	11	
12	A. That's correct.	12	
13	Q. Yes.	13	
1			
14	A. Yes, if you chargedif the rates to Newfoundland Power reflected cost on the	14	•
15			CHAIRMAN:
16	system and Newfoundland Power responded to	16	•
17	that in a manner that changed the way they	17	1
18	currently operate their generation, that's not	18	$\boldsymbol{\varepsilon}$
19	necessarily a negative outcome. That's, in		BROWNE, Q.C.:
20	fact, what you would like to see. Now if it	20	
21	causes them to change it in a way that leads		CHAIRMAN:
22	to inefficient production overall from	22	
23	society's point of view, then you would want	23	•
24	to call them in here, this Board would want to	24	
25	call them in here and make sure they aren't	25	tomorrow at 9:00 with Mr. Brockman. Thank
	Page 119		Page 120
1	you.	1	CERTIFICATE
2	UPON CONCLUSION AT 11:50 A.M.	2	I, Judy Moss Lauzon, hereby certify that the
		3	foregoing is a true and correct transcript in the
		4	matter of Newfoundland and Labrador Hydro's 2003
		5	General Rate Application for approval of, among
		6	other things, its rates commencing January, 2004
		7	heard on the 17th day of November, A.D., 2003
		8	
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		10	
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		13	Judy 11033 EduZon
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