	Page 1	Page 2	
1	November 13, 2003	1	copies. I don't intend to speak to the actual
	(9:18 a.m.)	2	·
ı	CHAIRMAN:	3	Plan at this time. Hydro will be filing
4	Q. Good morning, thank you. Apologize for the	4	supplementary evidence from Mr. Banfield that
5	delay which was unavoidable. Good morning,	5	
6	Ms. Newman, is there any preliminary matters	6	1
7	before we get started?	7	However, I would like to point out that the
8	MS. NEWMAN:	8	Rate Stabilization Plan as proposed does
9	Q. Yes, good morning Chair and Commissioners. I	9	contain the same four elements as currently
10	believe that counsel for Newfoundland Hydro	10	
11	would like to speak to a matter.	11	the fuel component and the rural rate
l	CHAIRMAN:	12	
13	Q. Good morning, Ms. Greene.	13	changes to each of the elements with respect
14	GREENE, Q.C.:	14	to how the balances will be assigned and
15	Q. Good morning, Mr. Chair, Commissioners. At	15	collected.
16	this time I would like to address the issue of	16	
17	the Rate Stabilization Plan and I am happy to	17	before the experts start is to advise the
18	report that the parties have reached agreement	18	Board that the parties have reached consent
19	and are prepared today to submit to the Board	19	
20	for its review and consideration, proposed	20	. 7
21	changes to the current rules for their Rate	21	Mr. Banfield to explain what the changes are.
22	Stabilization Plan.	22	So at this time I believe the document should
23	I have here a document that I would like	23	be marked as a consent document.
24	to circulate at this time to the clerk. The		MS. NEWMAN:
25	parties have already been provided with	25	
	Page 3		Page 4
1	EXHIBIT ENTERED AND MARKED CONSENT NO. 2	1	has beenand the parties can indicate,
ı	GREENE, Q.C.:	2	Newfoundland Hydro, the Consumer Advocate and
3	Q. I also haveI should point out first that	3	Newfoundland Power are consenting to this
4	Consent No. 2 the document that just has been	4	document with respect to the recovery of the
5	circulated are the proposed changes to the	5	historic plan balances and the Industrial
6	current rules that are existing in the rate	6	
7	schedules, but it doesn't address the issue of	7	to this issue.
8	the recovery of the historic balances in the	8	MS. NEWMAN:
9	current plans. I call them the old plan where	9	
10	the balance was frozen as of August 2002 and	10	
11	the new plan which commenced on September 1.	11	have it filed as a consent document.
12	The second document that I have to	12	HUTCHINGS, Q.C.:
13	distribute outlines a proposed change with	13	
14	respect to the recovery of the historic plan	14	
l	respect to the recovery of the historic plan		_
15	balances. The second document is consented to	15	of the document.
15 16	balances. The second document is consented to	15	of the document. MS. NEWMAN:
16	• • •	15 16	MS. NEWMAN:
l	balances. The second document is consented to by Hydro, the Consumer Advocate and	15 16 17	MS. NEWMAN:
16 17	balances. The second document is consented to by Hydro, the Consumer Advocate and Newfoundland Power. The Industrial Customers	15 16 17	MS. NEWMAN: Q. Perfect.
16 17 18	balances. The second document is consented to by Hydro, the Consumer Advocate and Newfoundland Power. The Industrial Customers are taking no position on the second document.	15 16 17 18 19	MS. NEWMAN: Q. Perfect. HUTCHINGS, Q.C.:
16 17 18 19	balances. The second document is consented to by Hydro, the Consumer Advocate and Newfoundland Power. The Industrial Customers are taking no position on the second document. Hydro, the Consumer Advocate and Newfoundland	15 16 17 18 19	MS. NEWMAN: Q. Perfect. HUTCHINGS, Q.C.: Q. The contents of it, we take no position on.
16 17 18 19 20	balances. The second document is consented to by Hydro, the Consumer Advocate and Newfoundland Power. The Industrial Customers are taking no position on the second document. Hydro, the Consumer Advocate and Newfoundland Power have reached agreement to extend the	15 16 17 18 19 20 21	MS. NEWMAN: Q. Perfect. HUTCHINGS, Q.C.: Q. The contents of it, we take no position on. MS. NEWMAN:
16 17 18 19 20 21	balances. The second document is consented to by Hydro, the Consumer Advocate and Newfoundland Power. The Industrial Customers are taking no position on the second document. Hydro, the Consumer Advocate and Newfoundland Power have reached agreement to extend the recovery period for the new RSP from the	15 16 17 18 19 20 21	MS. NEWMAN: Q. Perfect. HUTCHINGS, Q.C.: Q. The contents of it, we take no position on. MS. NEWMAN: Q. Consent No. 3.
16 17 18 19 20 21 22	balances. The second document is consented to by Hydro, the Consumer Advocate and Newfoundland Power. The Industrial Customers are taking no position on the second document. Hydro, the Consumer Advocate and Newfoundland Power have reached agreement to extend the recovery period for the new RSP from the current two years to four years. And this	15 16 17 18 19 20 21 22 23	MS. NEWMAN: Q. Perfect. HUTCHINGS, Q.C.: Q. The contents of it, we take no position on. MS. NEWMAN: Q. Consent No. 3. HUTCHINGS, Q.C.:
16 17 18 19 20 21 22 23	balances. The second document is consented to by Hydro, the Consumer Advocate and Newfoundland Power. The Industrial Customers are taking no position on the second document. Hydro, the Consumer Advocate and Newfoundland Power have reached agreement to extend the recovery period for the new RSP from the current two years to four years. And this document sets out that proposal for the	15 16 17 18 19 20 21 22 23	MS. NEWMAN: Q. Perfect. HUTCHINGS, Q.C.: Q. The contents of it, we take no position on. MS. NEWMAN: Q. Consent No. 3. HUTCHINGS, Q.C.: Q. We neither object nor consent.

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	Page 5 Page 6
1 GREENE, Q.C.:	1 certainly in consideration of the matter, I
2 Q. Mr. Chair, it is the party's position that the	would like to commend the parties. Once
3 new rule should come into effect as of January	again, I think the work in terms of mediation,
4 1, 2004 because as you know the Industrial	4 work in terms of agreement in principle on
5 rate adjustment starts in January. So even	5 this is really quite commendable. It's a
6 though there may not be an order arising with	6 progress I think that we, in the course of a
7 respect to the base rate increases, the	7 hearing, like to see the parties come together
8 parties have agreed that the proposed RSP	8 on, I think it moves things forward in a more
9 rules, if acceptable to the Board, should	9 efficient and streamlined fashion and the
commence on January 1 of 2004 and should apply	Panel looks forward to hearing the evidence
to the Industrial adjustment that would flow	and considering the matter further. Thank you
in January. And rather than take time to go	very much.
through each of the components now and explain	l · · · · · · · · · · · · · · · · · · ·
them, I believe it's preferable that we will	14 MS. NEWMAN:
do that through a witness and that will be Mr.	15 Q. No, Chair.
Banfield and we will pre-file supplementary	16 CHAIRMAN:
17 evidence to explain the proposed changes in	17 Q. Call upon Mr. Hutchings. Good morning, Mr.
the plan that we are happy to say that all the	Hutchings, if you could introduce your
parties have agreed to. And with respect to	19 witnesses, please.
20 the recovery of the balances that three of the	20 HUTCHINGS, Q.C.:
21 parties have agreed to and the other party has	21 Q. Good morning, Mr. Chair. Mr. Osler and Mr.
taken no position on at this time. Thank you.	22 Bowman have taken their places to give their
23 CHAIRMAN:	23 evidence and we'd ask that they be sworn and
	_
Q. Thank you Ms. Greene, very much. We certainly	24 we can then proceed.
25 look forward to the evidence on this and	25 CHAIRMAN:
	Page 7 Page 8
1 Q. Thank you very much. Good morning, gentlemen	
2 MR. CAMERON OSLER (SWORN)	2 as your evidence for the purpose of this
3 MR. PATRICK BOWMAN (SWORN)	3 proceeding?
4 CHAIRMAN:	4 MR. OSLER:
5 Q. I note, Mr. Browne, as well you have somebody	5 A. I do.
6 joining you at the table, if you could	6 MR. BOWMAN:
7 probably care to introduce this gentleman.	7 A. I do.
8 BROWNE, Q.C.:	8 HUTCHINGS, Q.C.:
9 Q. This is Mr. Doug Bowman, you all know from his	9 Q. Mr. Osler, does the resume, included as
previous appearances here since 1996. He's	10 Attachment 1 to your evidence accurately
joining us today.	present your professional qualifications and
12 CHAIRMAN:	experience in the field of utility regulation
13 Q. Good morning, Mr. Bowman, welcome sir. Whe	
you're ready with your direct, Mr. Hutchings,	resume?
please.	15 MR. OSLER:
16 HUTCHINGS, Q.C.:	16 A. Yes.
17 Q. Thank you, Mr. Chair. Would you please	17 HUTCHINGS, Q.C.:
17 Q. Thank you, Mr. Chair. Would you please 18 initially state your names for the record?	17 HUTCHINGS, Q.C.: 18 Q. Mr. Bowman, does the resume included as
17 Q. Thank you, Mr. Chair. Would you please 18 initially state your names for the record? 19 MR. OSLER:	17 HUTCHINGS, Q.C.: 18 Q. Mr. Bowman, does the resume included as 19 Attachment B to your evidence accurately
 17 Q. Thank you, Mr. Chair. Would you please 18 initially state your names for the record? 19 MR. OSLER: 20 A. Cameron Osler. 	17 HUTCHINGS, Q.C.: 18 Q. Mr. Bowman, does the resume included as 19 Attachment B to your evidence accurately 20 present your professional qualifications and
17 Q. Thank you, Mr. Chair. Would you please 18 initially state your names for the record? 19 MR. OSLER: 20 A. Cameron Osler. 21 MR. BOWMAN:	17 HUTCHINGS, Q.C.: 18 Q. Mr. Bowman, does the resume included as 19 Attachment B to your evidence accurately 20 present your professional qualifications and 21 experience in the fields of utility regulation
17 Q. Thank you, Mr. Chair. Would you please 18 initially state your names for the record? 19 MR. OSLER: 20 A. Cameron Osler. 21 MR. BOWMAN: 22 A. Patrick Bowman.	17 HUTCHINGS, Q.C.: 18 Q. Mr. Bowman, does the resume included as 19 Attachment B to your evidence accurately 20 present your professional qualifications and 21 experience in the fields of utility regulation 22 and the other fields referred to therein?
17 Q. Thank you, Mr. Chair. Would you please 18 initially state your names for the record? 19 MR. OSLER: 20 A. Cameron Osler. 21 MR. BOWMAN: 22 A. Patrick Bowman. 23 HUTCHINGS, Q.C.:	17 HUTCHINGS, Q.C.: 18 Q. Mr. Bowman, does the resume included as 19 Attachment B to your evidence accurately 20 present your professional qualifications and 21 experience in the fields of utility regulation 22 and the other fields referred to therein? 23 MR. BOWMAN:
17 Q. Thank you, Mr. Chair. Would you please 18 initially state your names for the record? 19 MR. OSLER: 20 A. Cameron Osler. 21 MR. BOWMAN: 22 A. Patrick Bowman.	17 HUTCHINGS, Q.C.: 18 Q. Mr. Bowman, does the resume included as 19 Attachment B to your evidence accurately 20 present your professional qualifications and 21 experience in the fields of utility regulation 22 and the other fields referred to therein?

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	Page 9	Page 10
1 HUTCHINGS, Q.C.:	1	will deal with the overall context sections of
2 Q. Can you tell us initially how long InterGroup	2	the evidence which would be Sections 1 through
3 has been associated with the Industrial	3	4. I'll deal with the revenue requirement
4 Customers of Newfoundland and Labrador Hyd	lro 4	comments in Section 5. Updates relating to
5 and for what purpose?	5	that, Patrick Bowman will deal with because
6 MR. OSLER:	6	he's been involved with the detailed reviews
7 A. We became involved with the Industrial	7	that I haven't been able to deal with
8 Customers in 2001 in the summer with respect	8	recently. Cost of Service, which is Section
9 to getting evidence prepared for the last	9	6, I'll again set the context, in particular
hearing of this Board dealing with rates of	10	Section 6.1 and 6.2. Mr. Bowman will deal
this utility. Our involvement has beenit	11	with the Cost of Service allocation issues
was through that hearing I gave evidence. We	12	from Section 6.3 through to the end of the
were involved recently when you started	13	Cost of Service, Section 6.6. And then the
preparing for this particular hearing, as well	14	final section dealing with overall rate design
as the Capital hearing I had earlier in the	15	issues, I will deal with that, although a lot
summer, I gather.	16	of that section has now been addressed through
17 HUTCHINGS, Q.C.:	17	the consents that have been filed today.
18 Q. Can you, for the convenience of counsel and	18	HUTCHINGS, Q.C.:
others who may be asking questions, indicate	19	Q. Thank you. Mr. Osler, then can you indicate
20 to us initially as between you, the division	20	for us initially the major issues of concern
of labour relative to this piece of evidence	21	to the Industrial Customers arising out of the
and the questions that maybe asked today?	22	present General Rate Application?
23 MR. OSLER:	23	MR. OSLER:
A. The overall evidence we prepared together but	24	A. In our evidence in Section 2 we review the
in terms of preparing for testimony today, I	25	general interests of the Industrial Customers.
	Page 11	Page 12
1 The fundamental interest and concern relate	es 1	have a concern that they do not end up paying
2 to the level of the rate increases. As it's	2	rural deficit contrary to the legislative
3 noted in that section at Page 5, the	3	directives. The cost allocation issues also
4 Industrial Customers who consume upwards	s of, I 4	carried over in the initial application to the
5 think 20 percent of the energy produced b	y 5	RSP, the Rate Stabilization Plan and how that
6 this utility see a slight reduction in their	6	affects the outcomes as to how their actual
7 forecast energy use but a significant increas	e 7	consumption may vary from what's forecast in
8 of some 30 percent when they saw this	8	this rate application.

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application and the cost that they were to 9 pay. So, the overall level and magnitude of 10 11 the rate increases, of course, I'm aware is a 12 compelling concern to them.

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When you look at the factors that relate to that rate increase, they cover a number of different elements. They include the revenue requirements as such of the utility, not just the cost increases that come from some of the growth elements but other cost increases that relate to management controlled issues and also some policy issues relating to Rate of Return. Also, the rate increase is affected by cost allocation issues as between and among customer classes. It's affected by the firm rates and how they are set with those cost

allocation issues and the Industrial Customers

The rate increases are also affected by and the overall effect on the bottom line of some of these customers is affected by the removal of the Interruptible B as a rate option. Beyond the sort of immediate rate effects and the factors that explain them, the customers have an interest in the long run because as Industrial Customers that's their focus and there are a lot of issues arising with respect to how this particular hearing fits into that long run, how this particular Rate Application fits into that long run, where are we going, how do we get there, how do we manage the process, where is this hearing fitting compared to the last one and any ones in the future and there are a number of issues that are noted in here that relate

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110 vember 13, 2003	Multi	-I age	111
	Page 13		
1 MS. OSLER:		1	In
2 to that sort of thematics. In Sections 3 and		2	talke
3 4 of our evidence we give an overview of	the	3	dolla
4 Hydro application and the context in which	it	4	reve
5 is set, particularly noting the hearing that		5	thou
6 took place in 2001 and how it started the	;	6	beca
7 process of regulating this utility and saw, in	ı	7	the
8 the Board's words, have its own order com	ning	8	occu
9 out of it, that as a first step and saw a lot		9	incre
of interest in what's the second step and wh	nat	10	grov
are the future steps on that road.		11	focu
12 HUTCHINGS, Q.C.:		12	on th
13 Q. Can you advise the Board from your analy	ysis	13	custo
what additional revenue Hydro is actuall	y	14	secti
seeking to achieve by the rate increases		15	sum
proposed and what appears to be driving t	he	16	reve
increased revenue requirement?		17	prop
18 (9:36 a.m.)		18	Islar
19 MR. OSLER:		19	there
20 A. Yes, and I'll turn to Section 5 starting at		20	requ
Page 13 in doing this. I will address it in		21	appl
the context of our evidence as filed and the	n	22	rate
23 Mr. Bowman will comment in terms of	the	23	that
updates that have recently been provided to	to	24	T
25 the participants.		25	whic
	Page 15		
base, why that increase is there is the	-	1	appl

n general, the overall application ed about an increase of some 55 million ars over the approved 2002 test year enue requirement. This 55 million dollars ugh isn't all to do with a rate increase, ause some of that increase in revenue from 2002 test year revenue requirement urred simply because of growth and reased revenue from--due to charging the wth at the current rates. So when we were using on our analysis on this, we focused that segment of the system relevant to our tomers, namely the Island Interconnected tion. And at page 14, Table 5.1, we nmarize the type of effects, the 2002 final enue requirement test year and the 2004 posed for that portion of the system, the nd Interconnected and the bottom line re, is that although the revenue uirement increase is 50.9 million in the lication, the actual increase to do with increases proposed in this application of was some 39.7 million. The analysis as to why that increase ch is some 13 percent measured against the

base, why that increase is there is the subject of this section of the evidence. At Page 13 in particular, it's sort of summarized. The applicant has stated that the primary factor explaining this increase is the new generation purchase power costs and the Granite Canal, the increase in these new facilities or these new agreements.

Our analysis is that these factors account for some 15 percent of the rate revenue increase that we just referred to and a further 35 percent of this total increase relates to increases in fuel prices and other factors relating to purchased power. So then in summary, about 50 percent of the overall increase for the Island Interconnected does not relate in any way to Granite Canal, the new purchase power agreement or the cost to supply load growth since 2002 or indeed to any other fuel cost or purchase power factors. It relates to a number of other factors which we've analyzed which are factors relating to the cost of the company and the escalations relating thereto, or the cost of equity

application to shift from a 3 percent return to a 9.75 percent return, on equity.

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The analysis that sort of explains this is at pages 16 and the Table 5.2 at page 17 and I'll just summarize it very briefly. If we look at Granite Canal effectively, in service of Granite Canal by 2004 results in an increase in energy being produced by hydraulic generation, rather than Holyrood. construction of this facility resulted in test year costs of some 11.8 million return on equity and debt and new hydraulic O&M. But it also saved some 10.48 million of Holyrood fuel and something around one million of Holyrood variable O&M. Hydro has also proposed to remove or eliminate the Interruptible B program as a result of this new generation, which results in a further saving of 1.297 million in purchased power costs. So the overall net effect, based on the original application as filed, of the Granite Canal in our analysis is a saving of some .95 million per year in the test year. Similarly, that type of approach taken with the Purchase Power Agreements shows a net increase of about 6.2

relating to the policy proposals in this

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Page 20

Nove	ember 13, 2003 Mul	lti-Page	e TM NL Hydro's 2003 General Rate Applicatio
	Page 1	7	Page 1
1 M	R. OSLER:	1	similarly at columns F and G and the load
2	million dollars. And looking at load growth	2	growth effects at H and I. So the overall
3	itself, if we were to supply that load growth	3	effect is that some 5.959 million of the 39.7
4	with Holyrood it would cost some 13 million	4	million increase due to rates is due to those
5	dollars. But if we look at the revenue you	5	three factors; Granite Canal, purchase power
6	can collect from that load growth at existing	6	agreements and load growth which is 15 percent
7	rates, it's about 12.3 million. So the net	7	of the total, as I said a few minutes ago.
8	effect is about .71 million. That's all at	8	The balance, 85 percent is due to other
9	Page 16.	9	factors. The other factors are reviewed at
10	Page 17 the actual table summarizes those	10	Pages 18 and 19 and I've summarized them
11	points in the table showing the overall change	11	already. So that sort of is the world as we
12	to revenue requirement for the Island	12	saw it. At the time reviewing the application
13	Interconnected as we go from one year to the	13	I'd ask Mr. Bowman if he could just sort of
14	next year, 2002 approved versus 2004 revenue	14	tell us the extent to which this picture has
15	requirement proposed in the application as	15	materially changed or not changed as a result
16	filed. And you see there a difference of some	16	of the updates.
17	52 million dollars but 12.3 of it is accounted	17 MI	R. BOWMAN:
18	for by load growth and revenue at existing	18	A. The information filed October 31st updates a
19	rates. So the net increase due to rates	19	number of the revenue requirement items as
20	proposal is about 39.7 million. And columns D	20	well as the loads, so it changes the assumed
21	and E talk about the Granite Canal effects	21	revenue at existing rates to a small degree,
22	with a negative .94 effect as you can see by	22	looking at Table 5.1 specifically at page 14.
23	looking at the two bottom columns, two bottom	23	For 2004 proposed, it had said that the
24	rows at row 15, for columns D and E. The	24	revenue requirement calculated by the Cost of
25	analysis for purchase power agreements is	25	Service for the Island Interconnected system
	Page 1	9	Page 2
1	had been 327.9 million with a total amount to	1	that now but the significant conclusions
2	be collected by rates charged to Island	2	within that haven't changed to the extent that
3	Interconnected customers at 345.3 million.	3	a few of the line items have changed. The
4	Revenue at existing rates at 305 is there to	4	drivers of the rate change in regards to
5	leave a shortfall of about 39.7 million.	5	number 6 fuel and depreciation are somewhat
6	Those numbers have updated slightly. The net	6	lower than had been before and the driver of
7	effect was a reduction in the revenue	7	the rate change in regards to general
8	requirement of some 4 million dollars such	8	operating maintenance and administration costs
9	that it's now more in the order of 323.6	9	are somewhat higher by about \$200,000. So
10	million. The rural deficit and revenue	10	then instead of the O M & A, the top line, row
11	credits have not changed materially but the	11	1, column K which had been listed there at 5.4
12	revenue to be collected through rates	12	million, that's now about 5.6 million. While
13	therefore is down again by slightly over four	13	number 6 fuel has come down by some 600,
14	million dollars to 340.8 million. And that	14	and depreciation has come down by some
15	number would come from the revised Banfield	15	200,000, the overall conclusions are not
16	evidence. Revenues at approved 2002 rates are	16	materially different.
	2070 1111 1 1 1 1		•

17 MR. OSLER:

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A. The one thing I'd add at the end is that all of this does not include some things. It does not include, as noted at page 14, any change to the method of the assumptions used to include the hydraulic energy at lines through 18 at this point is noted. There's about 5.97 million dollars in costs, largely related to fuel that would arise if the Board

now set at 305.9 million so the shortfall

instead of being closer to 40 million is now

revenues at existing rates of 340 million the

there before, it's slightly over ten percent.

filed to do a full update of table 5.2 and it

It's not possible with the information that's

would be a bit of an exercise to go through

34.9, 35 million range. Measured on the base

increase is now somewhat less than had been in

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110	veinber 15, 2005 Mulu
	Page 21
1	MR. OSLER:
2	had, and the applicant had adopted for this
3	purpose, the Acres recommendations regarding
4	long-term normal hydraulic plant output rather
5	than a 30-year period assumed. We note that
6	if you were shifting from the 30-year period
7	as we saw it in the 2001 application and final
8	decisions, through to the Acres long-term
9	numbers that we see in this evidence, that
10	this application itself though because of just
11	reductions in the 30-year numbers has already
12	moved about one-third of the direction in the
13	distance towards this type of an objective of
14	a long-term normal hydraulic output as per the
15	Acres report. But that's still a fairly
16	material distance left to go is the 5.97
17	million and indicatesand that would be the
18	type of thing that one would like toone
19	might have concerns about in terms of where
20	are we going and when will this type of effect
21	take effect. So that's not in these numbers
22	but it's a sign on the road that says there's
23	a bump coming.
24	HUTCHINGS, Q.C.:
25	Q. Moving on then to Section 5.2 of your
	Page 23

Page 22 evidence. You have some discussion there on 1 the issue of return on equity. Perhaps you 2 could indicate for the Board whether from what 3 you've seen in your analysis of this 4 application and the evidence filed in support 5 of it, there is at the present time any 6 statutory or evidentiary foundation for 7 regulating Newfoundland and Labrador Hydro in 8 the manner similar to an investor owned 10 utility. 11 MR. OSLER:

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A. In summary, no, we've not--I testified in the last hearing that we didn't see any basis on either legislative or evidentiary information for taking an investor owned approach to setting the return on equity. And our evidence, Section 5.2 starting at Page 19 simply reviews what we said and the Board said, coming out of the last hearing and really notes that there has been no material change from what we were saying or what the Board was looking for. If anything, the issues with respect to achieving a financial target and a financial plan don't seem to have been any more resolved than they were a couple

of years ago or have we moved any closer than we were talking about then to some of the targets such as an 80/20 debt equity ratio.

Meanwhile, the guarantee fees continue to be paid to the government with respect to the debt. The financial security and the sound credit rating matters with the legislation and the Board both noted, continue to be seemingly addressed. So on all those reasons we don't see any rationale for progressing towards an investor owned Rate of Return at this time or this hearing for this utility.

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13 HUTCHINGS, Q.C.: Q. Moving on then to Section 6 of your evidence. 14 This deals with a number of Cost of Service 15 issues. Can you just initially outline what 16 purposes this Cost of Service Study should 17 serve and what concerns are raised from the 18 19 point of view Industrial Customers and the manner in which the Cost of Service Study is 20 proposed to be implemented in this hearing? 21 22 (9:48 p.m.) 23 MR. OSLER: A. What I've just been referring to in terms of 24

specifically the sole interest of Industrial Customers, they're presumably the interest of all customers. As we move into the Cost of Service issues though, we now start to talk about cost allocation matters as to how we take the revenue requirement, whatever maybe approved and to sign it and allocate it among customer classes. So the fundamental principles involved are fair and equitable assignment or allocation principles. And the fundamental interest of the Industrial class or the extent to which that is in fact has been achieved or other issues arising from some of the allocation matters that cause them concern.

In terms of sort of setting the stage for it, Page 25, 26 we reviewed the relative changes in rates emerging from the initial application as filed. These changes in rates were provided by the applicant based on the revenue requirement just talking about but they did not include all of the cost allocations that seemed to be in the discussion. The Cost of Service analysis, for example, that the applicant filed does not

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revenue requirement issues are not

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	Page 25	
1	MR. OSLER:	1
2	include assigning the Great Northern	2
3	Peninsula, the GNP, generation in the manner	3
4	that the applicant is now proposing. So there	4
5	are things that are in this thatthere are	5
6	things that are talked about that we will talk	6
7	about that are not necessarily reflected in	7
8	these numbers. But what the information at	8
9	Table 6.1 and 6.2 showed was that from the	9
10	point of view of Industrial or other	10
11	customers, they are the rates that emerged	11
12	from this hearing in terms of firm rates and	12
13	the increase is 12 to 13 percent of the type	13
14	we've just been talking about. And there also	14
15	are the increases in cost to customers that	15
16	occurred from the RSP which is also approved	16
17	as a rate form in essence and has an effect on	17
18	customers to do with the outcomes of the	18
19	situation both respect to fuel and respect to	19
20	hydraulic and in the way it was put into the	20
21	application initially, the load variations	21
22	from what was necessarily forecast here. So	22
23	the overall increase isn't just affected by	23
24	8	24
25	affected by the RSP. In fact, the application	25
	Page 27	

Page 26 that's filed, the major effects or the largest share of the effects on the Industrial Customer group was coming from the RSP as shown in Table 6.1.

I would note that the percentages used in our table are calculated a little bit differently than the way some other people use these percentages. They're calculated against an overall base of costs, both RSP and otherwise that the customers face in the base year. So the percentages are slightly lower than you typically see. We show a 12. 0 percent firm rate increase for Industrial Customers with the applicant looking just at firm rates alone and not firm rates against the base of firm less RSP showed 13-1/ 2 percent. The numbers are equivalent, they're just using a different base. They're not talking about a different type of cost in terms of a firm rate increase. In terms of updates, these numbers have all changed slightly as the applicant has noted rather than a 13.5 percent firm rate increase, using their numbers, it's now 12.2, given the changes that have been recently updated. So

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these numbers have changed both in terms of the firm rates and of course the consent, the material filed today has a material impact on the RSP numbers that you see on these two pages and elsewhere on this material. It changes the RSP principles and approach such that the effects that we were concerned about in this evidence are significantly moderated and then the allocation over four years of the Consent No. 3 again spreads the effect of RSP recoveries over a longer time period which again moderates the effects that you see in this evidence.

In table 6.2 looking at the material as originally filed, we had shown the trend line for rate increases overall, RSP and firm, not just for the test year 2004 but as far as we could see from the evidence, for the next three years. And we raised a concern that there was a big bump for Industrial Customers of some 28 percent in the initial test year with a slight increase the next year but then a 10.8 percent reduction from the numbers in the application in the next year. This seemed to be an unstable type of a rate future and

not one that one would normally want to see happening. I'm advised that looking at the effect of the updates, particularly with respect to the RSP in Consents 2 and 3 today that this type of effect is significantly changed. I wait for the evidence to be filed by others as to the hard numbers, but my understanding is that rather than seeing this up and then down, you will see an up that stays very stable.

The questions that then still remain are if you've having an increase of that nature, should it all be pushed into the beginning, should it be spread out over time, where are we going, why are we doing this today rather than gradually smoothing it in over time. But the particular things that we talked about here which were largely derived from the RSP on page 26 have, I believe and understand to have been addressed materially in the two consents filed today.

The other element of sort of context setting here is pages 27 and 28, the supply conditions. The last time we had a hearing on these matters the utility's evidence was that

Page 28

Toveliber 13, 2003	
Page 29)
1 MR. OSLER:	1
2 there was a shortfall in its capacity relative	2
3 to its load. The evidence in this hearing is	3
4 that with the new facilities, Granite Canal	4
5 and the new purchase power agreements, there	5
6 is not a shortfall and in technical terms	6
7 there's more capability than there is a need	7
8 in order to meet the criteria. That's laid	8
9 out in Table 6.3 and the criteria I'm talking	9
about are the loss of LOLH. You can see that	10
the number of years needed to a next plant	11
being required are five years in the 2002 test	12
year and 2004 test year it was six years	13
either being required or planned. Nowadays	14
we're talking about not needing new	15
requirements until after 2010, 2011 type of	16
time period. This is a material shift in	17
situation. It comes together with the fact	18
that the last rate hearing was a first step in	19
20 the regulatory process for this utility. It	20
opened, both of these factors opened the door	21
to dealing with some of these cost allocation	22
issues today in a way that wasn't possible	23
before or in a way which the Board simply said	24
25 the decisions they had put on the table before	25
Page 31	

Page 30 were interim and now the time comes to make them final with some of these cost allocation issues.

In terms of actual rate setting and Cost of Service issues, the surplus that I've just referred to has had only, as far as we can see, one material impact on the application, and that is the removal of interruptible B, a contract opportunity with Abitibi Stephenville. And we will address that. An interesting question is the extent to which that is a short-term measure that is not consistent with long-term interests, or alternatively, are there other short-term or other longer term interest measures that should be addressed in this Application similarly flowing from the change in capacity relative to requirements.

So those are two context setting issues in terms of the RSP and the update to do with that and the situation respecting capacity and supply and requirements. But, overall, looking at the allocations, Cost of Service allocations, we're looking at those principals

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as among the customer classes.

Q. Do you want to deal now with some of the specific Cost of Service issues that are of particular concern to the Industrial Customers?

6 MR. OSLER:

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A. Mr. Bowman will go through the specifics from 7 the Application, the issues arising there from 8 9 and the Cost of Service Study in it. I'll just make one comment though because of some 10 11 other evidence has been filed since then from 12 EES which raises again the questions that we thought were put to bed with respect to the 13 14 GNP transmission allocation.

Pages 31 and 32 we did review the background from the last hearing on this matter. In the 2001 proceeding Hydro had proposed that any radial transmission line that had generation in place as well as the cost of the generation itself should be allocated to all Island Interconnected Customers as being of common benefit so long as the generation could, even what we talked about as light load conditions, that is not the time of the system peak is at issue or the

I talked about and the allocation of the cost Page 32

summertime specifically exceed the radial load. The Industrial Customers disagreed and the evidence that I provided addressed that, and that's at the top of page 32. We said there was no basis to assign a transmission line as being of common benefit if the generation could only exceed the radial load under such conditions, light conditions of load such as summer conditions and that generation was not simply required on the main grid. And we also raised questions about the pudency of that particular capital cost. We indicated from the evidence that a proper project review would have addressed issues to do with pudency. And the Board, in effect, didn't really get into that in its order, but did determine that Hydro's proposal to classify the GNP transmission and generation as being of common benefit was not acceptable at that time. It asked and required Hydro to do a study, which it did, and it's been filed in this hearing as Exhibit JRH-3. So, that study confirmed with respect to the GNP assets that the GNP transmission is not of any common benefit to the Island Interconnected grid and

Nove	mber 13, 2003 M	ulti-Pa	age TM	NL Hydro's 2003 General Rate Application
	Page	33		Page 3 ²
1 MF	R. OSLER:	1		in our evidence and I'll ask Mr. Bowman to now
2	so Hydro has determined it is appropriate to	2		address. But the context as we see it is that
3	retain the transmission line itself as	3		there was a debate, there was a study and
4	specifically assigned Rural. And that's sort	4		there was a conclusion on the grid and it's
5	of, I think, a significant part of story where	5		soundly based, in our opinion.
6	we thought we'd got to the end of it.	6		Now, let's look at the generation aspects
7	EES has looked at this and said, not	7		which seem to be a new issue as well as some
8	having beenhad the privilege of sitting	8		other issues that relate to some other
9	through the 2001 hearing, I guess, they	9		allocation matters.
10	noticed an inconsistency in the Hydro material	10	(10:0	01 a.m.)
11	because it was removing the transmission from	11	MR. E	BOWMAN:
12	being common, as the EES sort of saw it, but	12	A.	In terms of the specific cost allocation
13	it was going to propose that we put the	13		issues that are raised within Section 6,
14	generation in as being common. So we're	14		within this section we're talking about cost
15	treating the generation in the GNP, the EES	15		allocation not specifically the requirement,
16	noted, inconsistently with the transmission	16		so these are not changing the dollars to be
17	itself. The thrust of their point seems to be	17		recovered by Hydro, they're changing which
18	that they should be treated consistently, and	18		customers would be paying those dollars. And
19	I'll leave that for them when they come to	19		in thatonce we're into that realm the type
20	explain it in more detail. But I think from	20		of test that one normally uses to look at what
21	our perspective being here in 2001 there is a	21		is a fair and equitable assignment of the
22	material resolution to the grid, grid	22		assets. And the costs among the various
23	transmission itself and we did raise questions	23		custom classes, the types of tests that
24	as to the consistency and the wisdom of the	24		normally talk about relate to ensuring that
25	dealing with the generation differently, which	25		the rates paid by the various customer classes
	Page	35		Page 30
1	track the costs that they impose on the system	1		consistency with the GNP transmission at that
2	and where those costs follow the benefits that	2		hearing. And I'll spend a bit of time on
3	arise from various assets.	3		that. And the last is the concept of the
4	In that regard there's three Cost of	4		generation credit to Newfoundland Power, which
5	Service related items that we've highlighted	5		addresses their peaking units, their small

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here that I'll speak to. They all relate to assigning the costs related to supplying the capacity or the peaks on the system.

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There is not a lot of debate in terms of assigning costs related supplying energy, that would be the sort of large hydraulic system, Bay d'Espoir, Holyrood or indeed on the backbone transmission. These are all related to smaller units that are simply there to cover the most extreme conditions of winter

And the three that I'm going to highlight are the GNP generation, which Hydro now proposes to charge as being of common benefit to the Island Interconnected System, the Burin Peninsula transmission system which is now being proposed to be assigned as common. It has been assigned as common in the last hearing as well, but there was some discussion of how it would be treated in terms of

esses their peaking units, their small turbine units to address the same sort of peak conditions.

In this proceeding most of this, the GNP and the Burin, two of the three items are generally dealt with in Exhibit GRH-3, which is filed in the third binder of the Application. And it sets out a new test that Hydro is proposing to use that updates the types of tests that were previously used and rejected by this Board in regards to the GNP transmission. The types of tests would go to--that are acceded in this Application go to do the various assets provide substantial benefit to the Island Interconnected System and if the assets pass that test of providing substantial benefit, therefore they should be assigned as common. We're not convinced that that test is determinative on terms of cost allocation. It's one thing to do a test a to whether it provides substantial benefit, but that seems

			ge 112 Hydro 5 2000 General Rate Hypheuton
	Page 37		Page 38
	BOWMAN:	1	quality unit in terms of that type of bench
2	to ignore questions as to what are the	2	mark cost.
3	relative allocations of the cost to ensure	3	Going to the GNP specifically. There are
4	that it tracks those benefits and what are the	4	three key facts in regard to the GNP
5	relative impacts on each customer group in	5	Interconnection and the GNP generation that
6	terms of the benefits that they receive. And	6	are key to assessing the degree to which these
7	on that latter point I would note when we're	7	assets should be assigned as, as being of
8	talking about costs of capacity. Page 31 we	8	common benefit. And in reviewing this issue
9	set out that the bench mark that Hydro uses	9	it's relevant to note that the customers that
10	and seems to be defensible in terms of	10	are served by the GNP transmission line are
11	capacity is that new, brand new peaking units	11	Rural Customers, so costs that are required to
12	that could be installed on the backbone 230 kV	12	service Rural Customers, by legislation, are
13	system have aare quoted at about \$100 per	13	not to be included as part of the Industrial
14	kilowatt per year as sort of a normal cost of	14	Customers' Cost of Service.
15	that. Industrial Customers in the Cost of	15	So with that as background, the
16	Service pay about 12.6 percent of the costs of	16	interconnection of the Great Northern
17	peak related unit so that as a bench mark new	17	Peninsula had a couple of impacts on the
18	capacity that is very clearly installed for	18	system. The first is that it reduced the
19	peaking purposes which costs Industrial	19	rates that Great Northern Peninsula customers
20	Customers about \$12.64 for each installed	20	paid because they were switched from being
21	kilowatt. There's not a lot of basis to be	21	Island Isolated Rates to being Island
22	talking about other units that provide	22	Interconnected Rates, and in the final
23	capacity that end up charging the Industrial	23	decision from the last hearing that was cited
24	Customers more than 12.64 for each kilowatt	24	as being something like 2.75 million a year in
25	provided considering that they do get a higher	25	benefits. Outside of that, though, the
	Page 30		
	Page 39 interconnection of the GNP the evidence in	1	Page 40
1	interconnection of the GNP, the evidence in	1 2	Page 40 area as well as at Hawk's Bay. And the
1 2	interconnection of the GNP, the evidence in this hearing at IC-399, and we review this at	2	Page 40 area as well as at Hawk's Bay. And the evidence in GRH-3 indicates this was about
1 2 3	interconnection of the GNP, the evidence in this hearing at IC-399, and we review this at the top of page 33 of our evidence, indicates	2 3	Page 40 area as well as at Hawk's Bay. And the evidence in GRH-3 indicates this was about \$200,000 to do the Island Industrial
1 2 3 4	interconnection of the GNP, the evidence in this hearing at IC-399, and we review this at the top of page 33 of our evidence, indicates that overall the GNP Interconnection and the-	2 3 4	Page 40 area as well as at Hawk's Bay. And the evidence in GRH-3 indicates this was about \$200,000 to do the Island Industrial Customers, \$191,000 and it's a substantial
1 2 3 4 5	interconnection of the GNP, the evidence in this hearing at IC-399, and we review this at the top of page 33 of our evidence, indicates that overall the GNP Interconnection and thepage 33. The GNP interconnection, overall	2 3 4 5	Page 40 area as well as at Hawk's Bay. And the evidence in GRH-3 indicates this was about \$200,000 to do the Island Industrial Customers, \$191,000 and it's a substantial cost to Newfoundland Power as well in the
1 2 3 4 5 6	interconnection of the GNP, the evidence in this hearing at IC-399, and we review this at the top of page 33 of our evidence, indicates that overall the GNP Interconnection and thepage 33. The GNP interconnection, overall reduces the quality of service that is	2 3 4 5 6	Page 40 area as well as at Hawk's Bay. And the evidence in GRH-3 indicates this was about \$200,000 to do the Island Industrial Customers, \$191,000 and it's a substantial cost to Newfoundland Power as well in the first step of the Cost of Service before we
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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	interconnection of the GNP, the evidence in this hearing at IC-399, and we review this at the top of page 33 of our evidence, indicates that overall the GNP Interconnection and thepage 33. The GNP interconnection, overall reduces the quality of service that is otherwise available to Island Interconnected Customers. There is less generation on the GNP than required to service those loads. In other words, in terms of someone sitting on the backbone 230 kV grid, from their perspective their service quality would be higher if that interconnection never occurred. If you snipped the line today, their LOLH would go down and there would be more availability of power on the system, the reliability would be higher. So, simply from that perspective it isthe project is simply not one that's undertaken from the perspective of benefitting the grid. But in the end, as a result of that interconnection, Hydro's new proposal is that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	area as well as at Hawk's Bay. And the evidence in GRH-3 indicates this was about \$200,000 to do the Island Industrial Customers, \$191,000 and it's a substantial cost to Newfoundland Power as well in the first step of the Cost of Service before we get into allocating the rural deficit. Q. The \$191,000 you mentioned, is that an annual figure? MR. BOWMAN: A. That's an annual figure, yes. That's in GRH-3, Appendix B. So, what we're got is an interconnection, an asset for this line running out to service the customers on the Great Northern Peninsula. That's a long radial line. The evidence is in those cases Hydro would normally take the diesels out of service once it connected the line, but in this case it kept it in, in order to keep the power quality out in that area higher. The diesel units that are out there have run primarily to support the customers in that

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	Page 41
1	MR. BOWMAN:
2	sitting on the Island Interconnected System
3	would rather it was not interconnected, quite
4	frankly, from the perspective of their power
5	quality. So putting those pieces together it
6	doesn't leave one to immediately say, and as a
7	result Industrial Customers should also pay
8	\$200,000 because there's some generation out
9	there that benefits the grid. That's the core
10	of the concerns that we have with the Great
11	Northern Peninsula, that based on that set of
12	facts it certainly seems apparent that these
13	are properly costs to serve Rural Customers,
14	they're not costs that are properly charged to
15	the Industrial Customers when in the end
16	they're seeing no benefit, they're actually
17	seeing a detriment from the project of Rural.
18	The secondsorry. I would also note

just in terms of the end mathematics of the proposed common allocation, because the Industrial Customers and Newfoundland Power make up effectively 94 percent of the allocation of demand related costs, in the end the diesel units that have been retained out on the GNP under a common allocation would be

paid 94 percent by Industrial Customers and Newfoundland Power and six percent by the Rural Customers, despite the fact that the evidence is that in most cases they're used and were retained for the benefit of those customers out on the Great Northern Peninsula. So it's an example of an asset that simply is not passing the cost tracking benefits type of

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The Burin Peninsula is somewhat different. In this case we're not talking about generation, we're talking about a transmission system. In the case of Burin it's a fairly large load at the end of a-effectively at the end of a long peninsula that Hydro has two transmission lines running to the southern terminus to service the customers in that area as well as Newfoundland Power has a gas turbine unit. Hydro has a small hydraulic plant, Paradise River, 8 megawatts, a part of the way down one of those lines.

In terms of the allocation of transmission lines, the review of this process of allocating transmission lines to common or

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it doesn't give any basis to talk about assigning it to Industrial Customers. There are other allocations in Hydro's system that allow costs of an asset to be assigned to two customer groups, but not a third. The other point that they make is that it

connects significant generation. In viewing that system what we've seen is that there's an older transmission line, transmission line 212 that, TL-212 that connects the Paradise River 8 megawatt plant and it also allows for connection of the customers down the southern end, the Burin Peninsula, and in fact, Newfoundland Power's turbine is at that southern end which leads to a total of somewhere in the order of 33, 35 megawatts of generation.

Our issue is not with TL-212, it's with the second transmission line, TL-219 which says that even if one determines that Paradise River needs to be interconnected because of obvious benefit to the grid and perhaps even Newfoundland Power's peaking unit provides benefit to the grid, which we don't agree with because it's smaller than the peak loads out

to being specifically assigned to one customer, as Mr. Osler noted, was some time was spent on this in 2001 and it's actually also reviewed in the GRH-3, the Exhibit GRH-3. And in the end the conclusion with regards to the GNP, and Mr. Osler noted, was to the extent that there is generation out on a radial system, if that generation can't even carry the local loads at times of peak, never mind make it back onto the core 230 kV grid, there's not a lot of basis to be saying that transmission line is providing beneficial support or increased power quality to the people on the 230 kV grid at the times when it really matters.

In terms of the Burin Peninsula, Hydro sets out two tests as to why these assets should be assigned common. One is because it services both Newfoundland Power and Rural Customers. We don't dispute that. However, it's something like 99.5 percent of the load is Newfoundland Power and half a percent is Hydro Rural, so it doesn't seem to be determinative on that point, even if one views it as providing services to both NP and Rural,

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1 MR. BOWMAN: on the Burin, there's no basis to be talking about a second transmission line, quite an 3 expensive transmission line at that, just for 4 that purpose. The only basis for the second 5 6 transmission line is because there's lots of 7 Newfoundland Power customers out there, quite a large load. And in that regard that doesn't 8 lead to one saying that that second line is 10 providing any benefits whatsoever to Industrial Customers. 11 Even on this point Hydro reviewed the 12 Burin in 2001 and at the time they were 13

Even on this point Hydro reviewed the Burin in 2001 and at the time they were proposing Great Northern Peninsula be common, Great Northern Peninsula be common and that Burin Peninsula transmission be common. There was a question that was put to them in the 2001 proceeding as to--which said suppose Great Northern Peninsula transmission was not to be treated as common, but was recognized as being providing service only to Hydro Rural, would there be other assets that needed to change classification. And Hydro said, yes, Burin would need to be assigned directly to Newfoundland Power. As I have it noted here,

that was in the 2001 proceeding. So we haven't noted that in the evidence here. On the NP generation credit, what this refers to is Newfoundland Power purchases most of its requirements off of Hydro, but it supplies a small amount of its own requirements with its own hydraulic generation. It also maintains for the same type of local benefits that Hydro maintains the GNP generation, it maintains its own thermal plant which is a couple of gas turbines, one is 25 megawatts, one is 15, as well as a number of diesel engines. Similar to the GNP, these are located at various radial points around the Island and the locations of them is set out in our evidence at page 35 in a footnote there. And these units end up, these thermal units, specifically end up resulting in NP incurring a cost of about 1.691 million. I'm now at the middle of our page 37.

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Page 48

21 (10:16 a.m.)

So, at Line 18 there, it's noted that NP's General Rate Application will include the cost of these thermal units to be recovered from their customers at an annual cost of

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1.691 million.

In the end, the approach that Hydro proposes for dealing with NP's generation credit results in NP receiving back from Industrial Customers and Rural customers somewhere in the order of \$995,000 as a result of keeping those units in service, or about 60 percent of the annual cost of those units.

I'm not going to spend a lot of time on the technical points about how one deals with the generation right now, but looking specifically at the end mathematical result, when Hydro has peaking units installed on its own system that are clearly a benefit to all customers, such as the gas turbines, Industrial Customers and Rural pay a total of about 20 percent of the cost. Newfoundland Power maintains these gas turbines, the net effect is that Industrial Customers and Rural end up paying 60 percent of the cost, even though they're not the ones that are primarily served by these units. Those units are primarily there for the service to the local loads. So the end

cost tracking benefits in any way.

On the specific merits of the technical arguments that one should net these amounts off of the peaks that NP otherwise sets on the system. There seem to be two arguments that float about in that regard. One is that as a result of having the thermal units, NP somehow can shave its peak. So you're not really supplying them with firm load. That argument doesn't seem to carry a lot of weight and this is discussed at the bottom of page 37 and to the top of page 38 of our evidence. That evidence doesn't seem to carry a lot of weight, given that this load is firm load. It's charged at firm rates. It's equally reliable and available as any of Hydro's supply to Newfoundland Power. It's very different than, for example, the Industrial Customer non-firm load, which is maybe available and maybe not. The price is not guaranteed. It's on-- you know, it can be a very high cost per unit at certain times. So we're not talking about a non-firm load here. A non-firm load would be netted off of the cost of service. They do that for the loads

mathematical result simply doesn't result in

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MR. BOWMAN:
 up in Labrador provided to CFB. We do that
 for Industrial Customer non-firm, but this is
 not a non-firm load. So that argument for
 netting it off the peak doesn't seem to hold a
 lot of water.
 The other argument that's put forward is

The other argument that's put forward is that if you don't give Newfoundland Power the credit as if they ran the units, the other alternative is they just might run the unit so that they do lower their peak. Assessing that argument, again it does not seem to carry a lot of weight. This is, again, on page 38 of our evidence. The fact of the matter is that there's a power policy in this province that says units should be dispatched in a way that is most efficient and result in the lowest costs being allocated to customers and there doesn't seem to be a lot of basis in an argument that one customer could gain the system by increasing the overall costs, but decreasing the costs that are allocated to them. That doesn't seem like something that that legislation is designed to allow to occur. So the thought that we have to put in

some cost of service methodological approach to prevent that seems unnecessary, given that the legislation already effectively prevents that.

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Those are the three plant allocation issues that are highlighted going through Section 6 of our evidence. There's also a section at the end of Section 6, 6.6 here starting at page 39 which discusses the NP's load factor and load forecasts. We spent some time there setting out some concerns in regard to the NP peak demand that was used as a forecast for the 2001 hearing versus the 2002 test year. At the time it seemed high. There was some--or the load factor seemed high, meaning the peak load seemed low. There was some argument in this regard. As time has come to pass and the results have come out, it was in fact low and as a result, the costs that were paid by Industrial Customers were well above the actual cost that they imposed on the system. We're not pointing this out in regards to any sort of redress or suggestion that there should be some form or retroactive rate making.

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It's just filed in regards to saying that there is a need for some form of principle basis to address the number that comes in, in particular for Newfoundland Power's peak demand. And the reason I highlight that is in all of the load forecasts filed with Hydro, and the Industrial Customers submit their load forecast and Newfoundland Power submits its load forecast, the Industrial Customer load forecast for peak loads are something called power on order, which means that they're under a take-or-pay contract for the peak that they submit. So if an Industrial Customer submits a peak of saying they would hit 50 megawatts, they send that in to Hydro, they're going to pay for 50 megawatts whether they use it not, and 50 megawatts is all of the supply that they will be guaranteed. If they intend to go above 50 megawatts, there's no guarantee of that supply and it can be very expensive. So there's a lot of incentive to make sure that that forecast is done correctly, and there is negative repercussions if that forecast comes out wrong.

In regards to Newfoundland Power's peak,

Page 52 in the absence of some form of demand energy rate that likewise puts a ratchet or some form of power on order, take-or-pay type of provision, the only effect that that peak number has is in determining the total amount of dollars that will be allocated to Newfoundland Power. There's no after-the-fact reconciliation regards to that peak versus actuals, and so what we've said is that given that, the number that's put in is--the rates that are to be charged is very sensitive to the Newfoundland Power peak that is put in and as time goes forward, after that peak, rates have been approved, there's no cost tracking in regards to that peak, in the absence of demand energy rate and in the rate structures that are in place. In a situation where that exists, it means that one would want to be very careful in looking at the peak that's submitted and the extend to which its defensible. That's what that Section 6.6 is addressing. Q. Okay. That's all the cost of service specific

issues that we need to speak of now. There

are a number of rate design issues dealt with

Nov	ember 13, 2003	Multi-Page [•]	"NL Hydro's 2003 General Rate Application
	Pa	ge 53	Page 54
1 H	UTCHINGS, Q.C.:		if the forecasts are different than what
2	in Section 7 of your evidence. Some of those	2	happened in reality. Does the rate allow the
3	are no longer relevant but you comment briefly	y 3	cost tracking to still occur, or do we get
4	on the issue of the two-part rate for	4	into problems? Against that backdrop, the
5	Newfoundland Power and the issue of	5	issue of the two-part rate for Newfoundland
6	Interruptible B.	6	Power has been before this Board many, many
7 N	IR. OSLER:	7	times and it is one of the classic issues of
8	A. Generally, as we note at the beginning of this	8	discussion under rate design in Newfoundland.
9	part of the evidence at page 42, we're now	9	There are other issues that are raised in our
10	shifting from the overall revenue requirement	10	evidence, but I think have been settled by
11	where all the customers are interested in	11	Consent No. 2, with respect to firm rates to
12	trying to keep it as low as possible. We've	12	the Industrials.
13	just dealt with the cost allocation issues	13	The Newfoundland Power energy-only rate,
14	that are done for the purpose of testing,	14	as it currently exists, clearly doesn't
15	whether rates seem to fairly allocate costs in	15	purport to track demand or capacity costs and
16	the first instance. It's a benchmark really,	16	doesn't purport to track the difference that
17	the cost of service for that, and we were	17	may occur if Newfoundland Power's actual
18	effectively asking questions about the	18	capacity load differs from the forecast that
19	adequacy of the benchmark.	19	Mr. Bowman was just talking about. This
20	When we get to rate design, we're looking	20	particular application sets out assessments of
21	at actual cost tracking through rates. We're	21	options and our evidence simply reviewed this
22	looking a efficiency objectives, in terms of	22	material in the context of the discussions and
23	price signals to customers so they will behave	23	the issues and made some comments with respect
24	with incentives to behave efficiently, and	24	to the desirability of the price signal and
25	we're dealing with the issue of what happens	25	sort of the links to DSM and efficiency. The
	Pa	ge 55	Page 56
1	longer term perspective that we're trying to	1	you're not worried about how they actually run
2	give people incentive in Newfoundland and in	2	their hydro plant, but you're using a stable
3	the system, there's a lot of electric heating	3	standard that makes sense. And in our
4	in the Newfoundland Power system, to think	4	opinion, you don't get into their thermal
5	about capacity effects and to give price	5	dispatch at all, so you don't get into the
6	signals for down the road, so that the system	6	issues of them having any incentive to gain
7	evolves in an efficient way.	7	the system, as Mr. Bowman was just talking
8	The evidence comments on some very	8	about.
9	specific mechanics around Option B in the	9	So, we deal with some of these technical
10	Hydro filing, as to different ways to do a	10	matters, but from the point of the view of the
11	Newfoundland Power two-part rate. Whether we	11	Industrial Customers, any interest they may
12	deal with weather normalization issues with	12	have in this issue is one of long-term
13	respect to the hydraulic component going into	13	evolution of the system, rather than short-
14	the rate, obviously if you're looking at the	14	term interest of the Industrial Customers. It
15	peak that Newfoundland Power imposes on Hydro	, 15	makes no difference in the short run to the
16	you're looking at the effect that is net of	16	Industrial Customers as to how you charge
17	what their actual peak on their system is net	17	Newfoundland Power. It may make a difference
18	of their own generation. So how do you	18	if it helps the system evolve more efficiently
19	effectively plan with that in mind. The	19	through time and thus we've provided some
20	suggestions are that you look at some weather	20	comment on that subject.
121	normalization in order to get around issues as	21	At the end of the evidence in this

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At the end of the evidence in this

section, because most of the other material in

this section has now been addressed through

Consent No. 2, so it's not something that we

are dealing with today. But at pages 69 and

normalization in order to get around issues as

they vary from year to year just to do with

the weather, and secondly, that you look at

issues of normalizing the hydraulic and

standardizing the hydraulic component so that

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Page 58

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			J. J. L.
	Page 57		Page 58
1 MI	R. OSLER:	1	response to Newfoundland Hydro 30, question 30
2	79, in Section 7.3 of this section, the one	2	to the Industrial Customers, they asked did we
3	other issue that is still alive, Interruptible	3	file evidence that I'd given in some other
4	В.	4	hearings, and we did file the evidence that I
5	Interruptible B is a rate option that has	5	provided in a 1998 hearing in Manitoba where
6	been traditionally offered to the Industrial	6	we were dealing with curtailable rates as they
7	Customers and taken up by Abitibi	7	call them there, which is the same as
8	Stephenville, I believe, and it effectively	8	Interruptible B here, in principle. And we
9	says this customer is prepared to accept a	9	made the point in that evidence, page three if
10	lower quality of power, a non-firm element to	10	anybody's ever interested in looking at it
11	its capacity use and in return for that, it	11	again, that this is viewed in Manitoba as a
12	gets a lower rate for that power or gets a	12	DSM measure. It deals with load-related
13	rebate, and effectively, the terms and	13	initiatives such as DSM. It's one of the
14	conditions of this have been talked about by	14	bigger DSM programs in the Manitoba system.
15	the Board and have been set out in the history	15	It differs fundamentally from initiatives that
16	and set out in a number of answers to	16	relate to incremental generation improvement.
17	Newfoundland Hydro questions 31 through 36 to	17	If you're going to cut somebody's load, you
18	the Industrial Customers. But it is a rate	18	know for sure you've cut it. Either you've
19	that's been around. It is a rate that has	19	cut it or they've cut it, but it's cut. You
20	been used by the system to help meet capacity	20	don't have to worry about building a new
21	requirements in situations where there's a	21	generating unit and making sure it works. You
22	need to cut some load in order to supplykeep	22	have to have a reserve for it. You don't have
23	the system firm.	23	to worry about the transmission losses. In
24 (10	0:30 a.m.)	24	fact, it provides all of these types of
25	It is a valid DSM measure. In fact, in	25	benefits with a high degree of certainty and
	Page 59		Page 60
1	if you back up it's benefit to the total	1	and started just like that. Our experience in
2	system, you got to take account of the extra	2	dealing with Industrial Customers in Manitoba
3	benefits you get from transmission losses	3	is it took a while to get it and it takes

benefits you get from transmission losses saved and from reserve you don't have to hold.

So in the Manitoba system, we haven't been stressed to capacity, close to the peak of the load. We don't have to build new plant in our system for a long time. We don't have to build it, I think the latest information is until about 2020, the information that's been filed recently. It doesn't mean that we're yanking interruptible service or options to Industrial Customers. We're keeping them in that system because they have long-term benefits, and the long-term benefit approach is the one that Manitoba Hydro and the utility board there has focused on when looking at the retention of this option.

So in short, although there may be a surplus today compared to two years ago on this system, and it may be there for a few years, until 2010, '11 or '12, it seems remarkably shortsighted to yank Interruptible B and all the implications that come from it. And these are not things that can be stopped

Page 60 ce in Manitoba. is it took a while to get it and it takes experience with the plant in order to maintain it, and if you don't keep it up, people lose that experience and lose that knowledge and lose that information. So it's in your interest to--if you think it's going to be of long-term interest, and the evidence would suggest that it should be when capacity issues return to the system, that you keep the customer--keep the program, keep the plan. So that's essentially what's being addressed at pages 69 and 70 and it's one of the elements of the application which is--and it's a rate issue, rate options issue which is still very much alive. Q. Okay. Just to clarify the balance of the

items. 7.1.2 of your evidence dealt with the rate form for Industrial Customers, and that, I understand, was dealt with in the mediation process and is no longer an issue at this stage?

24 MR. OSLER:

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25 A. My understanding, it's addressed in the

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	Page 61		Page 62
1	MR. OSLER:	1	categories of revenue requirement since 2002,
2	Consent. That's right.	2	in particular operating and maintenance
3	HUTCHINGS, Q.C.:	3	expenses, depreciation, return on debt which
4	Q. Yes, and the rate stabilization issue, of	4	may have been addressed in the updating, and
5	course, from 7.2 have been dealt with in	5	return on equity which is still a live issue,
6	Consent 2 -	6	reflect the need for a more thorough
7	MR. OSLER:	7	assessment, in our view, of Hydro's operating
8	A. Right.	8	costs and capital investment pace as they
9	Q which was filed this morning.	9	related to rates.
10	MR. OSLER:	10	Secondly, there does not appear to be
11	A. That's my understanding. That would also	11	reasonable basis at this time for Hydro's rate
12	apply to Attachment C, D, E and F of our	12	payers to be faced with higher rates to
13	evidence would effectively relate to some of	13	reflect progression towards Hydro, treating
14	the same things we're just talking about.	14	Hydro as equivalent to an investor-owned
15	Q. I'd just ask you then, in conclusion, Mr.	15	utility.
16	Osler, to summarize, and perhaps a convenience	16	Three, the assignment issues that Mr.
17	reference would be at page three of your	17	Bowman referred to in the Burin Peninsula
18	evidence, the recommendations that you're now	18	transmission assets and the GNP generation
19	putting before the Board, and you can note	19	common assets seems to be a matter to be
20	those that are no longer of relevance in light	20	addressed in the manner that he discussed, and
21	of the earlier proceedings.	21	we think the allocations, as proposed by
22	MR. OSLER:	22	Hydro, are not consistent with the relative
23	A. Starting at line 17, the summary of our	23	benefits that these assets provide to the
24	recommendations throughout are: number one,	24	various customer classes, and in particular
25	the material effect of increases in certain	25	penalize the Industrial Customer class.
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1	Page 63		Page 64
1	Page 63 Four the NP load forecast need to be	1	Page 64 That leaves item number ten
1 2	Four, the NP load forecast need to be	1 2	That leaves item number ten,
2	Four, the NP load forecast need to be reviewed further, and they have been updated	2	That leaves item number ten, Interruptible B, which I just spoke to and our
2 3	Four, the NP load forecast need to be reviewed further, and they have been updated since we wrote this, to assess the extent to	2 3	That leaves item number ten, Interruptible B, which I just spoke to and our recommendation is the program should be
2 3 4	Four, the NP load forecast need to be reviewed further, and they have been updated since we wrote this, to assess the extent to which the NP's peak demands is currently	2 3 4	That leaves item number ten, Interruptible B, which I just spoke to and our recommendation is the program should be continued status quo and Hydro should be
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110 veiiibei 13, 2003	mu-rage TAL Hyuro's 2005 General Nate Applicatio
Page	Page
1 CHAIRMAN:	of labour. So any answer either of you wish
2 Q. Welcome, Mr. Greneman.	2 to give is fine, fine by me. The first thing
3 MR. YOUNG:	3 I'd like to bring to your attention is an RFI
4 Q. Mr. O'Reilly hasn't returned yet, and I don't	4 just to clarify a point this morning, because
5 know if he's going to be due in a moment.	5 most of your testimony, both written and your
6 CHAIRMAN:	6 summary this morning, is on Cost of Service
7 Q. Only goes to show you how much we depend on	7 and Rates matters, but if I could please bring
8 Mr. O'Reilly.	your attention to NLH-46 IC, please? Some of
9 MR. YOUNG:	9 your evidence this morning dealt with this
10 Q. Yes. The very first question I had is going	kind of a Rate of Return on Equity issue. I
11 to relate to a document. And if we start	just want to confirm that you don't hold
fumbling for paper, it's going to take at	yourself out as an expert in this are of Cost
least ten minutes, for sure.	of Capital, is that correct?
14 CHAIRMAN:	14 MR. BOWMAN:
15 Q. See if we can track him down. Only goes to	15 A. That's correct.
show you how important you are, Mr. O'Reilly,	16 (11:00 a.m.)
we're here looking at each other for one or	Q. Thank you. Most of the areas I wanted to deal
two minutes. When you're ready, Mr. Young,	with this morning are the issues that you've
19 please?	identified as those which are still
20 MR. YOUNG:	outstanding. And the first I'd like to deal
21 Q. Thank you. Good morning, Mr. Osler and Mr.	with is one of the assignment of plant issues,
Bowman. I don't have any specific questions	it's the GNP generation issue you spoke about.
23 for either of you individually. And I	I wonder, Mr. O'Reilly, if we could first seen
understand from this morning how you've broken	J.R. Haynes, Schedule 2, please? Thank you.
out in, as Mr. Hutchings said, your division	25 And just for clarification, when we were
	<u> </u>
$P_{a\sigma e}$	Page
Page 1 talking about the GNP generation we can go	
talking about the GNP generation, we can go	1 Stephenville which is a gas turbine; of
talking about the GNP generation, we can go about, I guess, it's about a third of the way	Stephenville which is a gas turbine; of course, in the far eastern coast where we are
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I	Page 69	Page 70			
1 MR. YOUNG:	1	where might it make sense. And in this case			
2 Newfoundlanders here would know this wit	thout 2	-			
3 thinking about it too much. But Wesleyvill	e 3	that they both serve a purpose as supplying			
4 is situated pretty close toward the Atlantic	4	the firm capacity to the grid as well as being			
5 Ocean there, but of course, I was thinking or	n 5	available should there be a transmission			
6 the Northeast coast, and Doyle's, the other	6	outage for local supply. So that can lead to			
7 part is in that very south, southwest coast	7	the thought that thermal plants should be more			
8 extreme?	8	distributed.			
9 MR. OSLER:	9	Q. Okay. But distributing the thermal plants			
10 A. Yes. It took me awhile to look those up.	10				
11 Yes, that's my understanding.	11	radial lines, would those be the sorts of			
12 Q. There you go. To your knowledge, are the	re 12	things you were referring to a moment ago?			
any advantages to customers that are served	1 13	3 MR. BOWMAN:			
from the electrical system in having these	14	A. That would be probably one consideration that			
generating stations sprinkled or spread out	15	went into a decision if you're adding plant,			
around, geographically around the province	? 16	you know, where it would be located.			
17 MR. BOWMAN:	17	Q. Exactly. The paper mills on the west coast of			
18 A. Well, you would normally think about plann	ing 18	Stephenville and Corner Brook, they probably			
a system in terms of making sure that there's	s 19	benefit in that manner to some degree, at			
sufficient capacity to meet the system as sor	t 20	least, from the location of the Stephenville			
of a first test. A second test would be if	21	gas turbine. Would you agree that may be the			
one then decided there wasn't sufficient	22	case, that having a gas turbine at that load			
capacity. And if you were adding capacity,	a 23	centre may be of some value to those			
second test would be for hydraulic, where do	pes 24	4 customers?			
it end up needing to be and for thermal is	25	5 MR. BOWMAN:			
I	Page 71	Page 72			
1 A. I think we would say that the Stephenville g	as 1	Q. The 14.7 megawatts of generation which is on			
2 turbine in the first instance is there to	2	the GNP, I think you would agree with me that			
3 provide support to the entire 230 kV backbo	ne 3	provides a useful role, one of the useful			
4 grid, so that's its primary role. Presumably	4	roles it provides is supporting the			

as a secondary role its also being located out in Stephenville can also address transmission outages or problems that don't relate to the supply of generating plant but the availability to transmit the power. So as a secondary function presumably the Stephenville turbine plays a larger role on the western side of the province.

13 Q. Okay. We were referring to two different functions and the 230 kV grid. And I assume 14 15 that what you said about the Stephenville gas turbine would also apply to the Hardwoods' gas 16 17 turbine and the largest thermal plant at Holyrood, they would provide not only the 18 19 capacity to the grid but also there's benefits 20 in having them where they are, is that 21 correct?

22 MR. BOWMAN:

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A. It would definitely apply to the Hardwoods. 23 24 And when--the turbine related to Holyrood, the 25 oil plays somewhat a different role.

reliability of service to customers in that

area. Would you agree? 6

7 MR. BOWMAN:

A. Yes, I would agree. The reason I say that is 9 I understand from the evidence filed that it primarily was retained at the time of the 10 11 interconnection for that specific purpose and that in most times that it's actually 12 13 dispatched, that's exactly the role that it's 14 playing.

Q. This is sort of a hypothetical question, but 15 if Hydro or Newfoundland Power were to 16 17 determine that there was a need for additional 18 peaking capacity, do you have any insight as 19 to where they might choose to locate it based upon your knowledge of the system or do you 20 21 have any opinion on that at all?

22 MR. BOWMAN:

A. Well, no. I think it would not be a 23 24 straightforward exercise to where it would be 25 located. There'd need to be a lot of

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	Page 73	:	Page 74
1	MR. BOWMAN:	1	through.
2	considerations that go into it, one being the	2	Q. From the perspective of adding capacity to the
3	type of system, things that we're talking	3	system, does it matter very much where it's
4	about, but I'm notI can't say at this point,	4	located, aside from the other factors you just
5	you know, that it should be here versus there.	5	mentioned, but just from the point of view of
6	MR. YOUNG:	6	the raw megawatts, if I can put it that way,
7	Q. Sure. What sort of factors would take intoI	7	does it matter where it's located?
8	think you briefly touched upon. I wonder if	8	3 MR. BOWMAN:
9	you could elaborate on it a little bit more,	9	A. To the extent that one is adding capacity
10	sort of factors that might come into account	10	being driven by, say, a capacity shortage on
11	as to the siting of such a plant?	11	the system, it doesn't matter to any great
12	MR. BOWMAN:	12	extent where it's located, except that the
13	A. Well, when you're talking about a peaking	13	reliability of that capacity would be greater
14	plant that is not hydraulic, it's not	14	to the extent that it's on sort of the
15	dependent on the location of the rivers.	15	backbone transmission grid and not reliant on
16	Presumably one would want to be looking at the	16	sort of long radial transmission lines to get
17	system type of factors we're talking about as	17	that power to the grid so that you don't have
18	well as where may staff be located in order to	18	an extra factor that you need to assume is
19	provide the support to it without needing to	19	going to be up and running at the time of your
20	develop a new complement of people and, you	20	system constraint.
21	know, how may that change sort of fuel	21	Q. When you say "up and running", you mean the
22	resupply requirements or the cost of bringing	22	reliability of the transmission line itself
23	in fuel for it. I suspect that there may be	23	that might bring that generation to the grid,
24	other environmental considerations. There's a	24	is that the point you're raising?
25	long list of things that one would want to go	25	5 MR. BOWMAN:
	Page 75		Page 76
1	*** ** * * * * * * * * * * * * * * * * *	1	
2		2	
3		3	
1	at the large neaking canacity that's installed	1	grid in terms of the types of calculations

at the large peaking capacity that's installed on the island, all of it is on the backbone transmission grid, the gas turbines we talked about, Stephenville or Hardwood. Because that's sort of straight into the network of the system the losses would be lower, you're more likely to have that part of your system up and running.

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25 MR. BOWMAN:

11 Q. I suppose aside from that, just say another 12 hypothetical, if we're here in the east end of 13 St. John's and if Newfoundland Power or Hydro 14 15 decided to put a gas turbine in this neighbourhood, it's not what you would 16 normally think of as being on the backbone of 17 the grid because it's in such a far extreme, 18 19 there's a fair bit of load in this area. Would you agree that would provide a purpose, 20 even though the generation probably wouldn't 21 22 get out past Hardwoods or Oxen Pond because of 23 the load that would just absorb the capacity?

grid in terms of the types of calculations 4 5 that go into the loss of load hours. That would be set out starting from the table in 6 Mr. Haynes' evidence that you took me to and 7 8 through from that into the calculation towards the 2.8 hour per your target. 9

Q. If I could just refer you back to Schedule 2 10 11 of Mr. Haynes' evidence for a moment, please? And maybe Mr. O'Reilly could get the whole 12 13 graph on there, the whole chart on the page, that would be useful. That's fine there, 14 thanks. Looking at the net capacity column 15 and at the very bottom it says "Total Island 16 17 Interconnected Grid" and the number there is 18 19, 19.1 megawatts, correct?

19 MR. BOWMAN:

21

22

23

24

20 A. Yes, I see that.

Q. And I think you will agree with me that at least a portion of that is there because the Hawke's Bay and the Roddickton diesel is there at 14.7?

Would you agree with that?

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Page 7	Page 78
1 MR. BOWMAN:	1 chosen?
2 A. Yes, that's correct.	2 MR. BOWMAN:
3 MR. YOUNG:	3 A. No.
4 Q. Megawatts, correct? I wonder if I can now	4 Q. And would you agree that it makes sense for
5 refer you to table 8 of page 37 of Mr. Haynes'	5 planning engineers to include all the capacity
6 evidence? And going down the middle column	6 that they can get to the grid when they're
7 there called "net capacity", you'll see that	7 making this assessment of LOLH?
8 the 19 pointnineteen, nineteen megawatts is	8 MR. BOWMAN:
9 the same number represented there, correct?	9 A. Given the grid that is there today, if
10 MR. BOWMAN:	nineteen, nineteen is the number of megawatts
11 A. That's correct.	that are available on the grid in order to be
12 Q. And now, just without looking at this table	able to support the customers that are there
for too long, I think you'll agree with me	today, so it seems to be the sensible number
that the purpose of this table and the purpose	to use in this type of planning consideration.
for which these numbers are presented here	15 Q. And I think you've already said that, I just
includes determining when the next capacity	want to confirm this, that given that the
additions might be needed. And there's the	capacity is there from the GNP, the 14.7
18 LOLH calculation shown there as being a factor	megawatts and it is used in this calculation
that might be considered, correct?	and it has a collateral benefit of providing
20 MR. BOWMAN:	20 additional reliability, people on that radial
21 A. That's my understanding of the purpose of this	line, that doesn't in any way detract the
table.	reliability aspect, doesn't in any way detract
23 Q. Okay. Do you disagree with using the	from the benefit it provides to the total
24 nineteen, nineteen in this table for this	24 megawatts capacity in the system, does it?
25 purpose, any problem with that number being	25 MR. BOWMAN:
Page 7	
1 A. You're saying thatperhaps you can repeat the	grid that currently exists today.
2 question?	2 Q. Okay. And without getting to deep into that
3 Q. Yeah. I'm just wondering, the fact that the	because it's very quickly going to get over my
4 GNP generation is at the end of a radial line	4 head, but I assume you're talking about there
5 doesn't in any way detract from its validity	5 might be things like forces outages ratios and
6 as being here in this table as part of the	6 those sorts of issues and losses might factor
7 nineteen, nineteen?	7 into those calculations. Is that the sort of
8 MR. BOWMAN:	8 thing you're referring to?
9 A. Well, this table reports a number of different	9 MR. BOWMAN:
columns. My understanding would be is peak	10 A. Well, I haven't seen the model, but normally
reflects the sum of the loads that are there,	in calculating what something like an LOLH is
net capacity reflects the generation that's	what you refer to as sort of a probabilistic
there. And then those two numbers, the	method which means that it's the sum of a
components of them are taken out and run	bunch of probabilities multiplied out in terms
through some sort of fairly fancy model to	of what's going to be available when. Forced
come up with the LOLH column. I'm not sure	outage ratios is usually one of the inputs to
that it treats each megawatt of generating	that. But not having seen the model, I can't
capacity on an equal basis in moving from	18 necessarily say.

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21

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24

25

Q. Okay. I wonder if I could move to another

issue of plant assignment. This is another

one that you raised today. It has to do with

the Burin Peninsula transmission lines.

Perhaps, Mr. O'Reilly, we could bring up JRH-

3? There's a map on page 6 of that document.

There we go. Bring this map up just so we can

nineteen, nineteen to 1.1 and I think it would

probably be a painful exercise to follow that

all the way through. So, there's more going

on here than just what is reported in this

right number to use there if one is thinking

about what capacity is available to supply the

table. I think nineteen, nineteen is the

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	Page 81		Page 82
1	MR. YOUNG:	1	Q. Right. I'm just wondering, before we get into
2	have a quick visual reference for some of the	2	the details of some of the issues here, the
3	discussion this morning. You referred to TL-	3	position you're taking in this Application in
4	121 and TL-219. The print is small, but I	4	relation to these lines, is this a position
5	think you'll probably agree with me that 212	5	which is different than the one you chose last
6		6	time or has there been some difference in
7	and 219 is the one which is to the west of	7	Hydro's approach or in Hydro's report to give
8	those two lines, correct?	8	rise to your position at this time? I can't
9	MR. BOWMAN:	9	recall Mr. Osler testifying quite in this
10	A. That's my understanding is that TL-212 is the	10	manner last time.
11	one that is on the eastern side and that the	11	MR. OSLER:
12	Paradise River plant is connected to.	12	A. The last time the focus of our attention was
13	Q. Right. And that one, I think you referred to-	13	on the Great Northern Peninsula. We didn't
14	-thank you, Mr. O'Reilly. That's much better.	14	get into the issues relating to this line in
15	And you referred also to 212 as being the one	15	any substantive way. My recollection, I
16	which is older in age than 219?	16	haven't gone back over it, but I know very
17	MR. BOWMAN:	17	much that the focal point was on the GNP.
18	A. Yes. I don't have the number in front of me,	18	Q. Okay.
19	but there's an interrogatory filed that goes	19	MR. BOWMAN:
20	through the age and the year they were built.	20	A. I would just note on that that we did consider
21	And more important than that is the sort of	21	that there was a group of these radial
22	value of the plant in service, that TL-212 was	22	transmission lines. Our focus on the GNP.
23	built quite a long time ago which it's not a	23	The Industrial Customers however did file an
24	particularly expensive line where the TL- 219	24	interrogatory in that proceeding, and I
25	is quite a pricier and new addition.	25	reference it at page 3 which is Attachment H
	Page 83		Page 84
1	Page 83 to our evidence in noting that the question	1	Page 84 see a location called Green Hill.
1 2	•	1 2	_
ı	to our evidence in noting that the question	2	see a location called Green Hill.
2	to our evidence in noting that the question asked if GNP was not assigned to common but	2	see a location called Green Hill. Q. Right. Southern terminus of 219?
2 3	to our evidence in noting that the question asked if GNP was not assigned to common but was specifically assigned, what other assets also follow on the same logic. And that's where Hydro's response says the assets on the	2 3	see a location called Green Hill. Q. Right. Southern terminus of 219? MR. BOWMAN: A. I don't think we've distinguished between the difference once one gets onto NP system, but
2 3 4	to our evidence in noting that the question asked if GNP was not assigned to common but was specifically assigned, what other assets also follow on the same logic. And that's where Hydro's response says the assets on the Burin currently assigned to common would"The	2 3 4	see a location called Green Hill. Q. Right. Southern terminus of 219? MR. BOWMAN: A. I don't think we've distinguished between the difference once one gets onto NP system, but in the end, it's not connected directly to one
2 3 4 5	to our evidence in noting that the question asked if GNP was not assigned to common but was specifically assigned, what other assets also follow on the same logic. And that's where Hydro's response says the assets on the Burin currently assigned to common would"The Burin Peninsula shall receive similar	2 3 4 5	see a location called Green Hill. Q. Right. Southern terminus of 219? MR. BOWMAN: A. I don't think we've distinguished between the difference once one gets onto NP system, but in the end, it's not connected directly to one of Hydro's transmission lines as we understand
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Page 85	Page 86
1 MR. BOWMAN:	like winter peaks. At that time it basically
2 generation is on Newfoundland Power's grid	2 just displaces a portion of the NP load, very
down on that southern end is our	similar to the GNP issue. That's why I'm
4 understanding. I'm just being cautious about	4 saying in terms of whether it could flow back
5 if TL-219 is out of service, if you could go	5 to the grid, our understand is at the time it
6 to 212, there's probably some core system	6 matter nothing flows back to the grid.
7 operation considerations with that. When we	7 Q. So you're just referring to the peak occasion?
8 considered this issue, we looked at -	8 Are you suggesting that's the only time gas
9 MR. YOUNG:	9 turbines are ever used, is that -
10 Q. I'm just wondering, are you speculating about	10 MR. BOWMAN:
that now or do you have some knowledge as to a	11 A. No. But in terms of all of that consideration
12 particular concern?	we just did on the Haynes' table 8.
13 MR. BOWMAN:	13 Q. Right.
14 A. No. What I'm indicating is when we asked the	14 MR. BOWMAN:
question about what is the sort of peak loads	15 A. We were comparing peak times to availability
down in that area, and this was in IC-339, it	of supply to supply the peak. The LOLH
was indicated that the Burin Peninsula's peak	primarily arises as a result of the peaks in
is something like 58.7 megawatts and our	January and February, some information was
understanding is most of that is down in the	reviewed, as I recall it, from 2001.
Newfoundland Power area which makes up 99	20 Q. Is it your understanding that these lines
21 percent of the load on that system. So the	essentially form, when you add in the
turning on the 25 megawatts similar to the GNP	Newfoundland Power portion of the network
23 test isn'tdoesn't all of a sudden get you	there, it essentially forms a loop, you know,
electrons flowing back to the grid, if I can	power travels up and down 219 and 212 and his
25 put it that way, in the times that matter,	25 hooked back to the Sunnyside terminal station,
Page 87	Page 88
is that correct?	1 fact that there's eight megawatts at Paradise
2 MR. BOWMAN:	2 River and the 25 megawatt Newfoundland Power
3 A. There's some RFI's that indicate that, yes.	generation does not in itself trigger the need
4 Q. Right, yes. I'm just wondering at first	for a redundancy, obviously. That's where the
5 glance these lines appear to be redundant.	5 redundancy question comes in.
6 Now, redundancy in the areas of, in the area	6 Q. Do you have any experience in a situation like
of electrical planning, it's not a dirty word,	7 this or analogous to this from another
8 it generally means that you have additional	8 jurisdiction where you have what's essentially
	o Jurisdiction where you have what's essentially
9 reliability. Is the position you're taking	9 a radial situation served by two parallel
9 reliability. Is the position you're taking 10 driven by the fact that these lines areboth	· · · · · · · · · · · · · · · · · · ·
reliability. Is the position you're taking driven by the fact that these lines areboth serve in a sense the same purpose and one is	9 a radial situation served by two parallel
reliability. Is the position you're taking driven by the fact that these lines areboth serve in a sense the same purpose and one is redundant with the other or I wonder if you	9 a radial situation served by two parallel 10 lines that you can share with us as to how 11 those lines might have been treated? 12 MR. BOWMAN:
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		1-1 6	- 8	THE TIYUTO S 2003 General Rate Application
	Page 89			Page 90
1	MR. BOWMAN:	1		there?
2	that, there's no basis to charge these lines	2		OSLER:
3	to the Island Interconnected System. We're	3	A.	Let me just say that if pushed, one would be
4	willing to say that there's not a lot of cost	4		saying deal with the line 212 it connects
5	associated with TL-212 and if anything, it	5		Paradise to the system, but not the rest of
6	does interconnect to Paradise River. So we	6		it. There isn't much cost involved in the
7	don't need to go whole out and say both lines	7		whole of 212 and to be pragmatic, we took the
8	are not properly charged to the Island	8		position Mr. Bowman laid out. But we're not
9	Interconnected System, but for goodness sakes,	9		trying to do some new fangled theory of
10	it doesn't switch us all the way over to say	10		parallel lines which I hadn't seen before,
11	both lines should be connected. It seems like	11		frankly, markably parallel, going down to
12	a reasonable position to say 212 seems to	12		serve a load and how one should deal with it.
13	accomplish, to the extent that anyone can	13		Essentially, they look to be radial, they look
14	identify Island Interconnected benefits	14		to be not serving the basic system. And we're
15	related to this system, 212 more than serves	15		just trying to be pragmatic with Paradise
16	the purpose. The big expensive line in 219	16		River.
17	doesn't seem necessary, it doesn't seem to	17	Q.	I'd like to change topics and talk, for a
18	provide additional benefits to the Island	18		moment about a the Interruptible B
19	Interconnected grid. And in that regard,	19		circumstance. I wonder if I can refer you to
20	that's sort of a normal type of Cost of	20		page 69 of your testimony at lines 14 to 15,
21	Service test.	21		there's a sentence I'm just going to read out
22	MR. YOUNG:	22		and ask you to discuss, in a moment. It says,
23	Q. Okay. But it's a judgment you're making	23		"in order to enable their operations to
24	coming sort of afresh at this and there's no	24		utilize this low quality power, there can be
25	regulatory precedent you could refer us to, is	25		substantial required investments in capital,
-		+		
	Page 91			Page 92
	Page 91 development of operating procedures and staff	1		Page 92 I haven't gone into the detail as to how their
1 2	development of operating procedures and staff	1 2		I haven't gone into the detail as to how their
2	development of operating procedures and staff training". Now, you touched upon that this	2		I haven't gone into the detail as to how their particular situation has involved these
2 3	development of operating procedures and staff training". Now, you touched upon that this morning. I'm just trying to get a sense of	2 3		I haven't gone into the detail as to how their particular situation has involved these investments myself. So, I can't give you
2 3 4	development of operating procedures and staff training". Now, you touched upon that this morning. I'm just trying to get a sense of context. You're talking in generalities here,	2 3 4		I haven't gone into the detail as to how their particular situation has involved these investments myself. So, I can't give you anything more than what I see here in this
2 3 4 5	development of operating procedures and staff training". Now, you touched upon that this morning. I'm just trying to get a sense of context. You're talking in generalities here, are you, or are you specifically referring to	2 3 4 5		I haven't gone into the detail as to how their particular situation has involved these investments myself. So, I can't give you anything more than what I see here in this RFI.
2 3 4 5 6	development of operating procedures and staff training". Now, you touched upon that this morning. I'm just trying to get a sense of context. You're talking in generalities here, are you, or are you specifically referring to Stephenville or one of the other customers?	2 3 4 5 6	Q.	I haven't gone into the detail as to how their particular situation has involved these investments myself. So, I can't give you anything more than what I see here in this RFI. Okay. I just wonder, I won't take long with
2 3 4 5 6 7	development of operating procedures and staff training". Now, you touched upon that this morning. I'm just trying to get a sense of context. You're talking in generalities here, are you, or are you specifically referring to Stephenville or one of the other customers? MR. OSLER:	2 3 4 5 6 7	Q.	I haven't gone into the detail as to how their particular situation has involved these investments myself. So, I can't give you anything more than what I see here in this RFI. Okay. I just wonder, I won't take long with this in that case, but just looking at the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	development of operating procedures and staff training". Now, you touched upon that this morning. I'm just trying to get a sense of context. You're talking in generalities here, are you, or are you specifically referring to Stephenville or one of the other customers? MR. OSLER: A. We were talking in generalities. Our experience is that Industrial Customers involved, some or all of those investments when they take seriously using interruptible power. Q. In relation to the contract that Hydro had with Abitibi Stephenville Mill, does this apply in the same way? I'm just wondering if you can indicate to the Boardthere is an RFI on thiswhat sort of investments were borne by the Stephenville mill and what sort of actions were taken in order to make itself ready to be able to participate in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. MR. S	I haven't gone into the detail as to how their particular situation has involved these investments myself. So, I can't give you anything more than what I see here in this RFI. Okay. I just wonder, I won't take long with this in that case, but just looking at the items here, none of them strike me, except for one on the second page, and perhaps one on the first page, but we'll deal with the one on the second page at Line 4, Computer Modelling, YOUNG: sorry, no, Engineering Study for Additional Pulp Storage Capacity, that's the only one that strikes me as having any real element of capital expenditure, would you agree? OSLER: Well, I let them talk to it, but in terms of hard costs that you would see in terms of studies or investments, that certainly leaps
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	development of operating procedures and staff training". Now, you touched upon that this morning. I'm just trying to get a sense of context. You're talking in generalities here, are you, or are you specifically referring to Stephenville or one of the other customers? MR. OSLER: A. We were talking in generalities. Our experience is that Industrial Customers involved, some or all of those investments when they take seriously using interruptible power. Q. In relation to the contract that Hydro had with Abitibi Stephenville Mill, does this apply in the same way? I'm just wondering if you can indicate to the Boardthere is an RFI on thiswhat sort of investments were borne by the Stephenville mill and what sort of actions were taken in order to make itself ready to be able to participate in the Interruptible B contract. The RFI is NLH 39, RIC.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. MR. S	I haven't gone into the detail as to how their particular situation has involved these investments myself. So, I can't give you anything more than what I see here in this RFI. Okay. I just wonder, I won't take long with this in that case, but just looking at the items here, none of them strike me, except for one on the second page, and perhaps one on the first page, but we'll deal with the one on the second page at Line 4, Computer Modelling, YOUNG: sorry, no, Engineering Study for Additional Pulp Storage Capacity, that's the only one that strikes me as having any real element of capital expenditure, would you agree? OSLER: Well, I let them talk to it, but in terms of hard costs that you would see in terms of studies or investments, that certainly leaps out. My experience has been that there's also, more difficult to quantify, but there's

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1	to do something that intrinsically is	1	preparation and some staff training and things
2	disruptive to the plant's operation, but that	2	of that nature, of that sort. I'm sure there
3	management looks at as a method to help keep	3	would have been of the sort that you just
4	costs under control and keep the plant in	4	referred to, but the 10 year period, does that
5	existence. Once you've got it on side and got	5	strike you as a reasonable period for a
6	years of experience, and people know what	6	company to recover its investment that it
7	they're dealing with and they pass it on for	7	makes in the training, in the softer and the
8	whatever generation, so to speak, from one	8	harder costs of an capital that might be
9	group of people to the next. If you lose	9	required? Does 10 years strike you as a
10	that, again, what's the cost in terms of hard	10	reasonable period of time for that?
11	numbers that you and I might look at? It's	11 MR.	OSLER:
12	hard to quantify, but it's very real.	12 A	. Yes, my comments are not relating to recovery
13	Q. And I think you make a reference to that, Mr.	13	of the investment, at all. They're relating
14	O'Reilly, if I could, back on page 69 of Mr.	14	to the fact that that continuity is important.
15	Osler and Bowman's testimony, linesit's	15	You don't stop and start this type of program.
16	about 17, subscription to Interruptible B can	16	If the idea is that this is of no longer any
17	require changes to many facets of a large	17	relevance in the future in Newfoundland, then
18	organization in order to optimally respond to	18	that would be surprising, I would think. And
19	the requirement for"that's obviously what	19	it shouldn't be just gauged by a short term
20	you're referring to there. I'm just wondering	20	surplus of the type that exists today compared
21	if you can provide me with some comments on	21	to two years ago. So, that's the focal point
22	the nature of the contract that Hydro had with	22	of the comment about investment and getting
23	Stephenville in the sense that the contract	23	everybody organized, not the question of
24	ran for 10 years, now I know that there was	24	fairness and equity as to recovery of an
25	some upfront growing pains and some	25	investment made for a specific 10 year
	Page 95		Page 96
1	contract.	1	percent or so of their costs are electricity,
2	(11:30 a.m.)	2	so, it's fundamental to the management and
3	Q. Well, just on that point, do you happen to	3	their business plan. It isn't that degree of
4	know how much lead time was required by	4	significance for an operation such as this.
5	Stephenville to prepare itself to enable to	5	It's not the heart of the cost structure. And
6	provide these interruptions according to this,		it's not the heart of the cost structure. This
	provide these interruptions according to this,	6	the issue of my experience in Manitoba
7	what's essentially a tariff?		
1	what's essentially a tariff? MR. OSLER:	6	the issue of my experience in Manitoba
1	what's essentially a tariff? MR. OSLER: A. No, I don't.	6 7	the issue of my experience in Manitoba jurisdiction is that, if you use the test you're using here in Manitoba Hydro and the Public Utilities Board, Manitoba would have
8	what's essentially a tariff? MR. OSLER: A. No, I don't. Q. Do you have any information you can provide to	6 7 8	the issue of my experience in Manitoba jurisdiction is that, if you use the test you're using here in Manitoba Hydro and the
8 3	what's essentially a tariff? MR. OSLER: A. No, I don't. Q. Do you have any information you can provide to us from some other jurisdictions as to how	6 7 8 9	the issue of my experience in Manitoba jurisdiction is that, if you use the test you're using here in Manitoba Hydro and the Public Utilities Board, Manitoba would have
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8 : 9 10 11 12 13 14 15 16 17 18 19 20 21 22	what's essentially a tariff? MR. OSLER: A. No, I don't. Q. Do you have any information you can provide to us from some other jurisdictions as to how long that normally would take? For example, if an Industrial Customer indicates the willingness to involve itself in Interruptiblesomething like we'll call here, Interruptible B program, how much lead time would normally be required before its first interruption is ready, to its processes? MR. OSLER: A. I can't give you anything that's useful on that. I just know that it took in Manitoba's case, well over a year discussion to bring in	6 7 8 9 10 11 12 MR. 13 14 15 16 17 MR. 18 Q 19 20 21 22	the issue of my experience in Manitoba jurisdiction is that, if you use the test you're using here in Manitoba Hydro and the Public Utilities Board, Manitoba would have terminated the program that they just finished reinforcing, you know, at the last hearing, OSLER: last year, because the degree of surplus that exists in that jurisdiction is considerably greater and longer than the one you're talking about in this jurisdiction. YOUNG: Just back for a moment, before we get into Manitoba, I do have a few questions on that, but I'm wondering if we can make any comparisons with the lead time that's required to obtain an arrangement like Interruptible B

1	11011	111Det 15, 2005 With	-1 ago	THE HYUTU'S 2003 General Rate Application
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l	1	pretty similar to a standard, what I'll call	1	A. I mean, you would think that, if everyone was
1	2	off the shelf, gas turbine at that sort of	2	prepared and ready and willing, that it would
1	3	name plate capacity, around 50, can you given	3	be easier to do an interruptible contract than
1	4	me any indication as to how the lead time	4	it would be to construct license and get
1	5	preparation would compare? And let me put it	5	approvals for a new facility, but you don't do
1	6	this way to you, more specifically, if a	6	these things typically on a spur of the moment
l	7	Utility identifies a need for some capacity,	7	and you don't do them for a short time period,
l	8	determines that it can be either obtained	8	as you saw here. There was a 10 year term to
l	9	through interruptible program or a peaking	9	the original arrangement. So, I guess the
1	10	generating plant, if in fact, the	10	heart of what we're saying is you don't tend
l	11	circumstances are such that it's indifferent,	11	to treat this type of exercise as an on
l	12	would you have any idea how the lead times	12	again/off again exercise. You tend to have
l	13	would compare as to how quickly a company	13	continuity, if you're interested in it as part
1	14	could normally get up a generating plant	14	of your plant.
1	15	versus the interruptible program?	15 MI	R. BOWMAN:
l	16 M	R. OSLER:	16	A. In regards to your question, the Manitoba
1	17	A. I don't think I have anything useful. The	17	program that was put in place started, as I
1	18	generating plant, depending on which ones	18	recall it, in 1993, early '90s, it started as
l	19	you're talking about, would be quite	19	an experimental program and it was in place
l	20	different, ranging from a hydro to a gas	20	for a number of years, certainly at least 'til
1	21	turbine.	21	1998 and potentially 'til 2001 and my
l	22	A. Just for the purposes of discussion, the gas	22	recollection is a little bit fuzzy on that, as
l	23	turbine might be the shorter, it might be the	23	an experimental program and during that
1	24	more useful analogy.	24	period, there was some periods where the
l	25 M	R. OSLER:	25	customers were unable to respond to a
		Page 99		Page 100
	1	curtailment because they hadn't yet sort of	1	can use that term. Any idea?
	2	gotten use to the ability to do that. As I	2 MI	R. OSLER:

		Page 99	Page 100
١	1	curtailment because they hadn't yet sort of	can use that term. Any idea?
١	2	gotten use to the ability to do that. As I	2 MR. OSLER:
١	3	understand it now, it'sI know that it's	3 A. I believe there was two, initially, two, yes.
١	4	offered on a permanent basis now, it's a	4 Q. I see. And do you have any idea how many are
١	5	permanent part of the rate offering that	5 using it now, are there much larger number?
١	6	doesn't expire. So, in terms of lead time,	6 MR. OSLER:
١	7	it's one thing to say, after someone inks a	7 A. No, there's one using it now that I know of,
١	8	contract, how quickly are they ready to maybe	but there's also some interruptibles to do
١	9	do their first curtailment or receive the	9 with fuel heating.
١	10	first call. It's another to say, how long is	10 MR. BOWMAN:
١	11	it before they've got their procedures in	11 A. I believe the last I heard, there may be two
١	12	place and everything is down pat, so you know	12 MR. BOWMAN:
١	13	that you can rely on that call when you need	in the program now, it's in that range, one to
١	14	to make it, which is the type of program this	14 three.
١	15	is designed for. And I knowI just can	15 MR. YOUNG:
١	16	comment that in Manitoba's case, it wasn't	16 Q. And I think your evidence is that this program
١	17	turned from an experimental on a permanent	is available those customers who have at least
١	18	program until at least five years, perhaps	5 megawatts of load, is that correct? Do you
١	19	longer.	have any idea how much of the customers that
١	20	Q. Okay. I don't mean to belabour the point	you have referred to, what size loads they
١	21	about the Manitoba experience, but you raise	21 interrupt?
١	22	an interesting circumstance we might look to	22 MR. BOWMAN:
	23	for a moment. How many customers in Manitoba	23 A. It's only one of those customers that I have
	24	took it up in the experimental stage before it	any specific knowledge of because they were a
1	25	was decided to be sort of, rolled out, if I	presenter in a recent hearing there and it's

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1	in the same order of magnitude that we're	1	2000, as the program was last reviewed, was to
2	talking about, like it's not 5 megawatts and	2	change the reasons under which Hydro could
3	it's not 100 at this point. It's somewhere in	3	call for an interruption and it removed the
4	the46 is probably not that far off.	4	ability for them to call for an interruption
5	Q. I see. You mentioned a few moments ago and	5	to capitalize on export markets. It's only to
6	already this morning that Manitoba Hydro's	6	ensure availability of firm supplies. So,
7	generating system is not capacity constrained,	7	that answer is different, depending if you're
8	it's several years out before they need new	8	talking about the first program versus -
9	capacity, is that correct?	9 (2. The first experimental program or the latter.
10	MR. OSLER:	1	. BOWMAN:
11	A. It's several years out before they need new	11 A	A the current. As the program is evolved,
12	facilities for either capacity or energy.	12	they remove that ability to interrupt, just to
13	Q. Okay. Manitoba Hydro is in the wonderful	13	capitalize on the export markets for that type
14	place in history and time where they can, and	14	of -
15	location, where they can export sales to other	15 MR.	OSLER:
16	provinces and to the U.S., is the correct?	16 A	A. I would just say, from another angle, that the
17	MR. OSLER:	17	value of the export market, in this sense, to
18	A. That is correct.	18	Manitoba Hydro has changed dramatically int he
19	Q. Is there any possibility or is there any	19	last five years, in the sense of a whole bunch
20	connection at all between the availability of	20	of things. So, thus the attention paid to it
21	having a number of customers who can provide	21	today compared to when it was first talked
22	interruptible power and opportunities for	22	about as a program in the early '90s.
23	export sales?	23 Ç	Q. Generally speaking, I'm wonderingnot just
24	MR. BOWMAN:	24	talking about interruptible programs, but
25	A. One of the changes that was made in the early	25	about capacity. I take it you'll agree with
	Page 103		Page 104
1	me that generally speaking, if you're going to	1	the money to build a facility, the other thing
2	acquire or build capacity or do other things	2	to spend so much a year in order to protect
3	to get capacity like an interruptible program,	3	the option of this type of a program. Like,
4	that you normally wouldn't make those	4	you don't spendAbitibi, Stephenville doesn't
5	expenditures unless it was needed. And you	5	get a big payment at the beginning of the term
6	wouldn'tthe second part of the question	6	in order to have a 10 year program. It gets
7	normally wouldn't make those expenditures, for	7	so much per year. It's a pay-as-you-go type
8	example, build that plant prior to it being	8	of approach compared to building a new
9	needed, is that correct?	9	facility.
10	MR. OSLER:	10 MR.	. BOWMAN:
11	A. That is correct.	11 A	A. I'd also note that in regards to system
12	Q. If, in a few years, Hydro finds that its	12 MR.	. BOWMAN:
13	forecast changed somewhat and it needs a new a	13	expansion planning, there are twoin simple
14	capacity regime and there are a couple of RFIs	14	terms, there are two ways that one can meet
15	on this, we don't need to go there and look at	15	the loads that are in the load forecast. One
16	those, but these questions have come up, do	16	is to build more plants or one is to somehow
17	you see that Interruptible B or that sort of a	17	reduce those loads. That's the whole, sort
18	program could play a role in Hydro's expansion	18	of, side of the demand side management. The
19	plan?	19	ability to, sort of, build plant to serve load
20	MR. OSLER:	20	reflects a certain type of timing where you
21	A. I believe Hydro has confirmed that	21	spend the expenditures, so the plant is in
22	Interruptible B would be among the items that	22	service by the time that you need it. On the
23	we consider, to address future capacity	23	DSM side, it needs to be a much longer term
24	shortages. So, I think that again, you've got	24	focus because you can't have a lot of these
25	to keep in mind that's one thing to put up all	25	things turn on and off very quickly. It's the

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1	same sort of thought process behind putting in	1	
2	a rate for Newfoundland Power that encourages	2	
3	them to control their peak. It's a longer	3	
4	term consideration so that these shifts in	4	
5	load that will change the timing of the next	5	5 MR. BOWMAN:
6	generating plant that may be required on this	6	
7	Island are built into the plan and the ability	7	someone is talking about DSM type programs
8	to respond to that is already built into the	8	
9	plan, not the decision is made at the time "oh	9	
10	my God, we're in a crisis and now we need to	10	
11	curb peak." DSM plans are generally viewed	11	• • •
12	over a much longer term period and	12	
13	Interruptible B, that type of program, fits	13	
14	into the thought of demand side management in	14	
15	that regard.	15	
16	MR. YOUNG:	16	6 program to have people convert from electric
17	Q. Now when you say that about DSM plans in	17	heating, you're not sure what the uptake on
18	general and taking a longer period of time, I	18	that program is going to be. So you need some
19	assume that's because normally, you're looking	19	lead time in order to see just how that's
20	forI'm talking about them in very general	20	evolving. It's not quite as responsive and
21	terms now, particularly as they're rolled out	21	not quite as cut and dried as the generating
22	to general service and domestic customers. It	22	complement addition side.
23	takes a time for behaviours to change and	23	Q. Yes, okay. I'm just curious as to how that
24	there's a certain amount of time for the take	24	fits with the circumstances we're dealing with
25	up of the market to respond to the price	25	today, the Interruptible B for Stephenville.
	Page 107		Page 108
1	When you look at the other customers in the	1	
2	class, the oil refinery and the other two	2	
3	paper mills, do you have any sense of what	3	the size of load. I realize I'm asking you to
4	willingness or abilities they have at present	4	speculate and I don't care to ask you to make
5	or might have within a reasonable period of	5	judgments about their processes, which are
6	time and reasonable capital to participate in	6	clearly not within your knowledge, but I'm
7	a significant way in a plan such as this?	7	assuming you'd agree with me that we can take
8	Have you polled them or discussed it with	8	NARL out of the picture at the present time,
9	them?	9	as far as which of these customers might be
10	MR. BOWMAN:	10	willing to consider this?
11	A. No, we haven't. That's the type of thing that	11	1 MR. BOWMAN:
12	one would want to look at as you're moving	12	2 A. Well, I don't have sufficient specific
13	toward decisions on next plant is can we keep	13	knowledge about all of their operations to
14	the 46 megawatts from Abitibi and can we maybe	14	comment as to whether they'd be interested in
15	get some additional from other people, and as	15	5 participating or if they were able to
16	a result defer plant, while we're separately	16	1 1 1
17	also looking at what can we do on the energy	17	What we heard last time from NARL is that some
		1	

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portion of their load, perhaps it's all but

I'm not certain, is very sensitive to power

quality and they're not prepared to accept

lower quality power on that portion of load

because it's very expensive. It doesn't mean

that another portion of load, they're not

willing to accept a lower quality of power.

much uptake there may be.

side. Part of our recommendation is to go out

and consider what else could be done in terms

of offering this to other customers and how

Q. I didn't get the impression when we last spoke

Interruptible load was something they were

to the oil refinery representatives that an

terribly interested in. I'm just wondering if

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Page 109 Page 110 What we're saying in regards to Abitibi is Q. Okay. So you wouldn't be able to confirm or 1 1 that on some portion of their load, they need otherwise if the 46 relates to the pulping 2 2 a higher quality of power. On another portion operation, if they have a storage, large 3 3 of the load, they don't need that higher storage tank there that they happen to have 4 4 quality of power. They don't want to pay the which can hold an awful lot of pulp and they 5 5 6 extra for that higher quality of power, and can shut down that part of their process while 6 7 they're willing to accept via an Interruptible other parts of the paper making process 7 B type contract or Interruptible B type rate a continue? You can't provide information of 8 8 lower quality of power at a lower price that that sort, can you? 10 provides them with that benefit and provides 10 MR. BOWMAN: the system with the long-term type of benefit A. Well, anything I would be give in that regard 11 11 would be only as a result of reading the that we've been talking about. So maybe 12 12 there's a distinguishing part in terms of the transcripts in this hearing, so it's already 13 13 portion of the load that we're talking about. in the record. 14 14 15 MR. YOUNG: Q. Okay. It's a good circular, isn't it, okay. 15 16 Q. Just perhaps if we can focus on Stephenville, 16 So the comments--I just want to make sure we just for a minute. Do you have any sense as understand this, the comments you made about 17 17 to how the 46 megawatt number came about and the longer-term benefits and the slow take-ups 18 18 how that fits in their process? and those sorts of things, I put it to you, it 19 19 doesn't really apply to Stephenville and I'm 20 MR. BOWMAN: 20 A. I've read in the transcript in regards to how not sure how it would apply and perhaps you 21 21 it fits in their process, regards to the can help us on this, I'm not sure how it would 22 22 different types of machines, but I have no 23 23 apply to the other two paper mills either. It sounds to me like you're bringing a generality knowledge as to how 46 was calculated versus 24 24 some other number. and bringing it to a very specific 25 25 Page 111 Page 112 circumstance for your customers, and there's Abitibi, okay, well wait, we'll go talk to 1 1 them in 2009, it would be a bad time to find 2 only four of them. 2 3 MR. BOWMAN: out that this time they decided they're not 3 able to do that because they haven't got that A. Could you repeat the question? 4 Q. I'm just wondering, you made some comments 5 5 type of continuity or they're not sure they about ten minutes ago about the importance of want to sign on for an on and off type of 6 6 program under that type of condition. 7 continuity and longer lead times that are 7 required in order to see benefits from a DSN 8 8 MR. OSLER: 9 program, and I'm just wondering how those A. You know, I think--we haven't addressed the general comments--and I accept that they have extent to which there'd be uptake from others, 10 10 general applicability, but I'm just wondering 11 11 beyond Abitibi. We have noted the Abitibi one how they apply to the circumstances of the 12 12 MR. OSLER: Industrial Customers here in the province, on 13 13 and there are certain physical features of the Island part of the province. that facility which you've osberved 14 14 (phonetic). The Abitibi operation is facing 15 MR. BOWMAN: 15 significant cost increases as a result of this A. Well, what we're saying in that regard is that 16 16 when both customers--both the customers' side Application. One of the things it is also 17 17 facing is a loss of the whole Interruptible B and Hydro's side, there is the benefits that 18 18 19 come from continuity on this type of program process. The objective here is not to make 19 and the type of certainty that arises sure there's no Abitibi load whatsoever by the 20 20 thereunder, that if a comprehensive plan is time you come around to your next set of 21 21 put in place that says our system began to get problems, it's to try and maintain a 22 22 short at, say, 2010, we can address the energy partnership with the people that are here in a 23 23

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long-term basis it's got some continuity, so

DSM's objective is not to get rid of the

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side by doing some things on wind, we can

address the capacity side by relying on

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	Page 113		Page 114
1	Abitibi load in its entirety, it's to provide	1	think sums it up well, I'll just read it "To
2	a solid basis for planning and try and help	2	the extent that these Industrial rates are
3	its ongoing existence, as well as curtailing	3	appropriate and track valid incremental costs
4	its load to where it can afford to be	4	on the system, a similar rate structure seems
5	curtailed. So, I think all of those things	5	appropriate for Newfoundland Power." I wonder
6	would be in the background of some of the	6	if you could elaborate on that? I think the
7	things we're thinking about here. The overall	7	reference there is to the fact that the
8	increase in the rates and any amelioration for	8	Industrial Customers have a demand energy rate
9	Abitibi is not just the rate increase, it's	9	structure and that Newfoundland Power does
10	the loss of the arrangements with respect to	10	not, is that correct? Actually, the point I'd
11	the Interruptible B. It's a remarkable	11	like you to discuss, if you care to, is the
12	coincidence of timing. And the overall effect	12	tracking of valid incremental costs on the
13	that you can well imagine.	13	system and the dynamics that are followed by
14 N	MR. YOUNG:	14	demand energy rate structure, as opposed to an
15	Q. Okay, well that's sort of removed from the	15	energy only rate structure.
16	discussion we had a few minutes ago. I think	1	BOWMAN:
17	I'd like to move on, if I might, to another	17 A	. Well I'd just start by noting that this
18	issue that I know you've presented some	18	section of the evidence we're discussing at
19	testimony on and I presume you have some	19	page 45 is a summary of a number of benefits
20	strong views on, and that's Newfoundland Power	20	that were actually highlighted in Mr.
21	demand energy rate structure that's being	21	Greneman's Exhibit No. 2.
22	proposed. I wonder if I could bring you to	1	. Right.
23	page 45 of your testimony please. Now you		BOWMAN:
24	mention there, there's a heading there under		And some comments that we have on that. In
25	"Price Signal" and the last sentence of that I	25	regards to price signal, what it's setting out
	Page 115		
1	•		8
1	there is similar to what we talked about	1	Page 116 essential difference because Newfoundland
2	there is similar to what we talked about earlier this morning. Absent a demand energy	1 2	essential difference because Newfoundland Power is the only customer in its class,
2 3	there is similar to what we talked about earlier this morning. Absent a demand energy rate for Newfoundland Power, there is no cost	1 2 3	essential difference because Newfoundland Power is the only customer in its class, whereas there were four in the Industrial
2 3 4	there is similar to what we talked about earlier this morning. Absent a demand energy rate for Newfoundland Power, there is no cost tracking to changes in the peaks it imposes on	1 2 3 4	essential difference because Newfoundland Power is the only customer in its class, whereas there were four in the Industrial classes, does that change in any way or have
2 3 4 5	there is similar to what we talked about earlier this morning. Absent a demand energy rate for Newfoundland Power, there is no cost tracking to changes in the peaks it imposes on the system, which is very different than the	1 2 3 4 5	essential difference because Newfoundland Power is the only customer in its class, whereas there were four in the Industrial classes, does that change in any way or have any impact upon the point you just made? Does
2 3 4 5 6	there is similar to what we talked about earlier this morning. Absent a demand energy rate for Newfoundland Power, there is no cost tracking to changes in the peaks it imposes on the system, which is very different than the situation of Industrial Customers where there	1 2 3 4 5 6	essential difference because Newfoundland Power is the only customer in its class, whereas there were four in the Industrial classes, does that change in any way or have any impact upon the point you just made? Does that matter?
2 3 4 5 6 7	there is similar to what we talked about earlier this morning. Absent a demand energy rate for Newfoundland Power, there is no cost tracking to changes in the peaks it imposes on the system, which is very different than the situation of Industrial Customers where there is some form of cost tracking. It's a	1 2 3 4 5 6 7 MR.	essential difference because Newfoundland Power is the only customer in its class, whereas there were four in the Industrial classes, does that change in any way or have any impact upon the point you just made? Does that matter? BOWMAN:
2 3 4 5 6 7 8	there is similar to what we talked about earlier this morning. Absent a demand energy rate for Newfoundland Power, there is no cost tracking to changes in the peaks it imposes on the system, which is very different than the situation of Industrial Customers where there is some form of cost tracking. It's a striking difference. I'm not sure whether	1 2 3 4 5 6 7 MR. 8 A	essential difference because Newfoundland Power is the only customer in its class, whereas there were four in the Industrial classes, does that change in any way or have any impact upon the point you just made? Does that matter? BOWMAN: . No, and I think that's underlined by both the
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Page 117	Page 118
1 the Cost of Service.	on an embedded part to be a significant part
2 MR. YOUNG:	2 of that, but I'm not sure it quite as cleanly
3 Q. The demand energy rate structure that applies	3 lends itself to lifting two numbers from the
4 to the Industrial Customers is derived from	4 Cost of Service Study and putting in the rate
5 the embedded Cost of Service Study, correct?	5 schedule as may be the case for Industrial
6 I'm just wondering if you could confirm that	6 Customers.
7 and I'm also just wondering if you had any	7 Q. Mr. Bowman and I know in particular you had a
8 comments as to whether or not there would be a	8 great involvement with the RSP and you may
9 problem that you are aware of, of applying the	9 have a sense of this from your observations,
Cost of Service Study that we filed in	Newfoundland Power's present situation is an
determining demand energy rate structures from	energy only rate and it's coupled with a,
that for Newfoundland Power?	prior to our application, I mean, the status
13 MR. BOWMAN:	quo, it's coupled with our RSP and their RSA,
14 A. The demand energy rate for the Industrial	the Rate Stabilization Account, would you
15 Customers is derived from the Cost of Service	agree with me that those three elements
Study, as I understand it, and the rates that	working together provide a situation which
17 I've seen in the rate schedules mimic those	constitutes a high degree of earning stability
that show up once one does the calculations in	for Newfoundland Power, higher than you would
the Cost of Service Study. So I can confirm	normally see, perhaps for a distributing
20 that part. The specifics of designing the	20 utility or is it typical?
Newfoundland Power rate go quite a ways down	21 MR. BOWMAN:
the road, it's sort of technical	22 A. I want to be cautious here because in regards
considerations on a number of factors. I	23 to the type of things we're talking about, the
24 would expect the Cost of Service Study and the	24 RSP impacts are considerably different under
relative amounts of demand versus energy costs	25 the consent exhibit that has just been filed,
Page 119	
Page 119	Page 120
1 as opposed to what was there under the	Page 120 1 rates are usually cited as being some
1 as opposed to what was there under the 2 previous one, particularly with regards to the	Page 120 1 rates are usually cited as being some 2 component of ensuring more stability within
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	Page 121		Page 122
1	otherwise might be volatility as to their	1	borne by the customers that flow through to
2	earnings or other untoward effects, I don't	2	the distribution part, and you can get into
3	know if you can provide any information on	3	debates about how to do it, but the focal
4	that?	4	point of our attention hasn't been ways to
5	MR. BOWMAN:	5	ameliorate concerns about instability from the
6	A. I would think that would go to issues on	6	distributor's point of view.
7	Newfoundland Power General Rate Application.	7	Q. If I might, just as a follow up to that point,
8	MR. OSLER:	8	so I understand it, are you saying that one of
9	A. Just, I mean, generally speaking, the work	9	theif I can put it this way, products that's
10	that we've done, not to be so evasive here,	10	being sold by the wholesale utility is in fact
11	but we've worked on industrial issues where	11	capacity and that there is a way of reflecting
12	the concerns you're talking about are not the	12	that in the demand energy rate structure?
13	focal point of our attention. While we've	13	MR. OSLER:
14	worked for major utilities such, as a	14	A. That's, I guess, going to the core of it,
15	wholesale nature, such as Yukon Energy where	15	whether it's a price signal issue or cost
16	they are the wholesaler and not the	16	tracking issue, whatever, that's the core of
17	distributer and the issue certainly arises in	17	the perspective is the systemthe wholesaler
18	discussion with the distributor, not	18	is providing, through generation and
19	dissimilar to what we're talking about here.	19	transmission, capacity, as well as energy.
20	On the other hand, from the point of view of	20	That's why they charge Industrial Customers
21	the wholesaler, these are costs that go with	21	who are larger customers of the system on that
22	the provision of the generation of	22	basis, and the question that always surfaces
23	transmission and to the extent that somebody	23	is why would you charge the wholesale guy
24	is planning a system around the load, the	24	differently? And from a fairness point of
25	capacity part of it, then the risk should be	25	view, from efficiency pricing point of view,
	Page 123		Page 124
1	et cetera, and the argument that comes back	1	proceeding from the way you've read the
2	occasionally is, well, if the wholesaler	2	Application? Mr. Bowman or Mr. Osler -
3	doesn't like itthe retailer doesn't like it,	3	MR. BOWMAN:
4	because it's going to be unstable to their	4	A. I'm not necessarily completely clear. My
5	bottom line and that willthey have to	5	understanding is it'sthere is a study that's
6	reflect that through their customers and	6	in the record in regards to implementing a
7	depending on your perspective, people then	7	demand energy rate that seems to be, I believe
8	say, well that would be a good idea to reflect	8	the word was "endorsed" by Hydro and proposed
9	it through their customers and their customers	9	but there's a rate schedule that's filed that
10	would know the capacity counts, as well as	10	indicates an energy only rate to Newfoundland
11	energy, so why don't we all think about that	11	Power, so it's one of a number of issues that
12	when we're dealing what a distributor's rate	12	MR. BOWMAN:
13	hearing.	13	we were not entirely clear on what was being
14	Q. Okay, thank you. Those are all my questions,	14	applied for, similar to the Acres Hydraulic
15	Mr. Bowman, Mr. Osler. I appreciate your	15	work or the GNP generation, there seems to be
16	testimony. Thank you.	16	one proposal from Hydro, but the rates that
17	CHAIRMAN:	17	they propose to charge don't seem to reflect
18	Q. Thank you, Mr. Young. Good morning, Mr.	18	it, so I don't entirely know what's on the
19	Browne, when you're ready please.	19	record being proposed by Hydro.
20	BROWNE, Q.C.:	20	(12:00 p.m.)
21	Q. Good morning gentlemen. That last theme that	21	BROWNE, Q.C.:
22	you were asked in reference to demand energy,	22	Q. In terms of your own knowledge of the demand
23	I'd like to pursue that a little. What do you	23	and energy charges, we notice there was a
24	understand is Hydro's proposal for a demand in	24	mediation effort and there were points that
25	energy in the demand energy rate in this	25	the parties agreed upon in the mediation, as
		•	Dogg 121 Dogg 124

Page 125 found in Consent I, but when we go to part 2 on page 5 of the Mediation Report and Mr. O'Reilly, I don't know if you can put that up there, the issues on which parties disagree we saw k) should Hydro's wholesale rates to Newfoundland Power include both demand and energy charges or should they remain an energy at only rate. Now, you were involved in the mediation effort, were you not, Mr. Bowman? O'A and there could be not-there was no agreement in inference to this particular issue, but it in reference to this particular issue, but it in reference to this particular issue, but it is in reference to this particular issue, but it is there is, our demand energy rate to benefits associated with it. O'A. The only positions that we have filed are with it the load forecast and we see that in far mean? I Newfoundland Power would seem to have some benefits associated with it. 22 Industrial Customers requested an update on the load forecast and we see that in a moment, please? Page 127 Newfoundland Power remost or A and the peaks a sasociated with supplying that energy across on Hydro's system. Page 127 Newfoundland Power remost or A and the peaks a sasociated with supplying that energy across on Hydro's system. Page 128 Page 127 Page 127 Page 127 Newfoundland Power would scene to have some where they vary over time, depending on the specific numbers that show up above, but there is ever the load factor there below fifty percent, does that suggest efficiency in the system? MR BOWMAN: A The only positions that we have filed are with the numbers that show up above, but there is ever the load factor free below fifty percent, does that suggest efficiency in the system? A Load factor of 50 percent means that compared to the peaks that are imposed on the system is about the word "efficiency" because different types of the word "efficiency" because different types of the peaks are considerably higher than the amount of usage in summer. I'm cautious about the word "efficiency" because different types o	Nov	vember 13, 2003 Multi	i-P	age [™] NL Hydro's 2003 General Rate Application
2 A Yes, I have that. 3 O, Do you want a copy of it or can you pick it there, the issues on which parties disagree we saw k) should Hydro's wholesale rates to Newfoundland Power include both dermand and energy charges or should they remain an energy mediation effort, were you not, Mr. Bowman? 10 MR. BOWMAN: 11 A, Yes. 12 Q, And there could be no-there was no agreement in in reference to this particular issue, but in in reference to this particular issue, but the what was your position, can you tell us that? 15 MR. BOWMAN: 16 A, The only positions that we have filed are with regards to the cvidence that we have here that there is, our demand energy rate to be enfits associated with it. 10 Q, In reference to this particular issue, but in probably in layman's terms from your own early war period to 48.96. What does that in fact mean? 11 MR. BOWMAN: 12 Q, And there could be no-there was no agreement in in reference to this particular issue, but in grants to the cvidence that we have here that the there is, our demand energy rate to be enfits associated with it. 17 regards to the cvidence that we have here that the sheet is our demand energy rate to be enfits associated with it. 18 Lough and the probably in layman's terms from your own early war proid to 48.96. What does that in fact mean? 19 MR. BOWMAN: 10 A The surface of the probable in the mount of information that would filed by Mr. Haynes to into his Application, indicating the Newfoundland Power would seem to have some to		Page 125		Page 126
3 Q. Do you want a copy of it or can you pick it of three, the issues on which parties disagree we saw ky should Hydro's wholesale rates to saw ky should Hydro's wholesale rates to 6 Newfoundland Power include both demand and energy charges or should they remain an energy a fonly rate. Now, you were involved in the mediation effort, were you not, Mr. Bowman? 10 MR. BowMAN: 11 A. Yes. 12 Q. And there could be no—there was no agreement in reference to this particular issue, but 13 in reference to this particular issue, but 14 what was your position, can you tell us that? 14 what was your position, can you tell us that? 15 MR. HOWMAN: 16 A. The only positions that we have filed are with regards to the evidence that we have here that 18 there is, our demand energy rate to 19 Newfoundland Power would seem to have some benefits associated with it. 21 Q. In reference to that issue, yesterday the 21 Industrial Customers requested an update on 22 Industrial Customers requested an update on 23 the load forecast and we see that in a moment, please? 11 Newfoundland Power across row A and the peaks a associated with supplying that energy across row B. you come up with certain load factors where they vary over time, depending on the specific numbers that show up above, but there is is certain averages for that developed under columns 11 and 12. So those are the longer term more sort of stable, in terms of the load factors that Newfoundland Power would impose on Hydro's system. 15 A. Load factor of 50 percent means that compared to the peaks that are imposed on the system, 17 they average demand on the system, 18 MR. BOWMAN: 18 A. Load factor of 50 percent means that compared to fund the precision of the system; 19 peaks are considerably higher than the amount of usage in summer. I'm cautious about the word "efficiency" because different load 20 customers will impose very different load 21 they average demand on the system, 19 peaks are considerably higher than the amount of usage are considerably higher than the amount of us	1	found in Consent 1, but when we go to part 2	1	MR. BOWMAN:
there, the issues on which parties disagree we saw k) should Hydro's wholesale rates to 5 saw k) should Hydro's wholesale rates to 6 Newfoundland Power include both demand and 6 probably in layman's terms from your own energy charges or should they remain an energy 5 only rate. Now, you were involved in the 9 mediation effort, were you not, Mr. Bowman? 10 MR. BOWMAN: 110 MR. BOWMAN: 120 And there could be no—there was no agreement 13 in reference to this particular issue, but what was your position, can you tell us that? 14 what was your position, can you tell us that? 15 MR. BOWMAN: 15 A. Doal factors that we have filed are with regards to the evidence that we have here that the there is, our demand energy rate to 80 Newfoundland Power would seem to have some 20 benefits associated with it. 21 Mr. Bowman 22 the load forecast and we see that in 23 the load forecast and we see that in 23 the load forecast and we see that in 24 Information No. 17. Can we go to that for a 12 moment, please? 11 MR. Bowman 22 moment, please? 12 Newfoundland Power across row A and the peaks 22 associated with supplying that energy across 12 moment, please? 13 Newfoundland Power would impose 14 moment, please? 14 where they vary over time, depending on the 5 specific numbers that show up above, but there is certain averages for that developed under 6 is certain averages for that developed under 7 columns 11 and 12. So those are the longer 14 mey across on Hydro's system. 15 A. Load factor 50 percent means that compared 15 to the peaks that are imposed on the system, 17 they average demand on the system is about 16 half that high. It would mean that the winter 18 peaks are considerably higher than the amount 20 of usage in summer. I'm cautious about the word "efficiency" because different types of 22 customers will impose very different load 24 Industrial Customers may be very high load 14 load factors and plant because our vealured judgment. 15 will from packing the output of the plant in the 24 load of the plant in the 25 load of the	2	on page 5 of the Mediation Report and Mr.	2	A. Yes, I have that.
5 Newfoundland Power include both demand and energy charges or should they remain an energy only rate. Now, you were involved in the mediation effort, were you not, Mr. Bowman? 10 Mr. ROWMAN: 11 A Yes. 12 Q. And there could be no—there was no agreement in inreference to this particular issue, but what was your position, can you tell us that? 13 in reference to this particular issue, but what was your position, can you tell us that? 14 what was your position, can you tell us that? 15 Mr. BowMAN: 16 A The only positions that we have filed are with regard to the evidence that we have here that the regard to the cividence that we have here that the regard to the cividence that we have here that the submers is associated with supplying that energy across row B, you come up with certain load factors where they vary over time, depending on the specific numbers that have depending on the specific numbers that would filed by Mr. Haynes in this Application, indicating the numbers that are shown there and I see there's notes that indicate that the numbers that are shown there and I see there's notes that indicate that the numbers that are shown there and I see there's notes that indicate that the numbers that are shown there and I see there's notes that indicate that the numbers that are shown there are from the type of information that would filed by Mr. Haynes in this Application, indicating the Newfoundland Power would and power would and power loads that are talked about, there's a number of different Newfoundland Power loads that are talked about, there's a number of different Newfoundland Power would impose or own Hydro's supplies. And if one looks at the view re talking here in terms of the actual peaks that they impose on Hydro's supplies. And if one looks at the view read of the peaks that are imposed on the system. 13 A load factor and the evidence of the peaks are considerably higher than the amount of usage in summer. I'm cautious about the warriage and the winter peaks are considerably higher than the amount	3	O'Reilly, I don't know if you can put that up	3	Q. Do you want a copy of it or can you pick it
6 Newfoundland Power include both demand and 7 energy charges or should they remain an energy 8 only rate. Now, you were involved in the 9 mediation effort, were you not, Mr. Bowman? 11 A. Yes. 12 Q. And there could be no—there was no agreement 13 in reference to this particular issue, but 14 what was your position, can you tell us that? 15 MR. BOWMAN: 16 A. The only positions that we have filed are with 17 regards to the evidence that we have here that 18 there is, our demand energy rate to 19 Newfoundland Power would seem to have some 20 bencfits associated with it. 21 Q. In reference to that issue, yesterday the 22 Industrial Customers requested an update on 23 moment, please? Page 127 1 Newfoundland Power across row A and the peaks 2 associated with supplying that energy across 3 row B, you come up with certain load factors 4 where they vary over time, depending on the 6 is certain averages for that developed under 7 columns 11 and 12. So those are the longer 8 and it varies, 49, but averaged over a ten- year period to 48, 96. What does that in fact 10 mean? 11 MR. BOWMAN: 12 A. Well the numbers that are shown there and I 13 see there's notes that indicate that the 14 numbers that are shown there and I 15 see there's notes that indicate that the 16 numbers that are shown there and I 17 numerics, 49, but averaged over a ten- year period to 48, 96. What does that in fact 18 man (18 m. BOWMAN: 19 charles and it varies, 49, but averaged over a ten- year period to 48, 96. What does that in fact 18 man (18 m. BOWMAN: 19 charles and it varies, 49, but averaged over a ten- year period to 48, 96. What does that in fact 19 man (20 man (20 man (20 man)) 10 mean? 11 MR. BOWMAN: 12 charles and it varies, 49, but averaged over a ten- year period to 48, 96. What does that in fact 18 man (20 man (20 man) (20 man) 19 man (20 man (20 man) (20 man) 10 mean? 12 A. Well the numbers that are shown there and I 18 mumbers that are shown there and I 19 man (20 man) 10 mean? 10 mean? 10 mean? 11 MR. BOWMAN: 12 charles are shown the	4	there, the issues on which parties disagree we	4	outyou have it from there? Can I just want
energy charges or should they remain an energy only rate. Now, you were involved in the 9 mediation effort, were you not, Mr. Bowman? 10 Mr. Bowman? 11 A. Yes. 12 Q. And there could be nothere was no agreement in reference to this particular issue, but 13 sec there's notes that indicate that the 14 what was your position, can you tell us that? 14 what was your position, can you tell us that? 15 Mr. BOWMAN: 15 of information that would filed by Mr. Haynes 16 A. The only positions that we have here that 18 there is, our demand energy rate to 19 Newfoundland Power would seem to have some 20 benefits associated with it. 21 Q. In reference to that issue, yesterday the 21 Industrial Customers requested an update on 22 moment, please? 25 Town B. You come up with certain load factors where they vary over time, depending on the 5 specific numbers that show up above, but there is, our demand energy rate to 25 moment, please? 27 Town B. You come up with certain load factors where they vary over time, depending on the 5 specific numbers that show up above, but there is, our demand energy rate to 19 Power loads that Hydro supplies. 18 There's a number of different Newfoundland Power across row A and the peaks 21 associated with supplying that energy across 3 row B, you come up with certain load factors 40 Hydro's syptiem and 19 Power talking here in terms of the actual 23 peaks that they impose on Hydro's system and 19 Power they vary over time, depending on the 5 specific numbers that show up above, but there is, our factors that Newfoundland Power across row A and the peaks 25 specific numbers that show up above, but there is, our factors that Newfoundland Power across row A and the peaks 25 specific numbers that show up above, but there is, our factor and you might think of an 24 peak less generation credit, so where they vary over time, depending on the 5 specific numbers that show up above, but there is, our factor and you might think of an 19 peak stream the peak is a relatively inefficient type of 10 industrial loa	5	saw k) should Hydro's wholesale rates to	5	you, if you can explain some of this to us
8 only rate. Now, you were involved in the 9 mediation effort, were you not, Mr. Bowman? 10 MR. Bowmans. 11 A. Yes. 12 Q. And there could be no—there was no agreement in reference to this particular issue, but what was your position, can you tell us that? 13 in reference to this particular issue, but what was your position, can you tell us that? 14 what was your position, can you tell us that? 15 MR. BOWMANs. 16 A. The only positions that we have filed are with regards to the evidence that we have here that the regards to the evidence that we have here that the regards to the evidence that we have here that the regards to the evidence that we have here that the regards to the evidence that we have filed are with regards to the evidence that we have here that the regards to the evidence that we have filed are with regards to the evidence that we have filed are with the three's on the wood of the dark they impose on Hydro's supplies. 16 A. The only positions that we have filed are with regards to the evidence that we have filed are with the peaks associated with it. 17 consider that file the mumbers that are shown there and I are they the mumbers that are shown there and I are they the numbers that are shown there are from the type of information that would filled by Mr. Haynes in this Application, indicating the Newfoundland Power loads that Hydro supplies. There's a mumber of different Newfoundland Power loads that are talked about, there's a hartieve's a Hydro supplied peak, there's a Page 128 to defer the season and they peaks that they impose on Hydro's system and Hydro's supplies. And if one looks at the total energy that Hydro provides to we're talking bere in terms of the actual peaks that they impose on Hydro's system. 14 sold the elad factor and you might think of an 20 peaks that they impose on Hydro's system. 15 specific numbers that show up above, but there is certain averages for that developed under columns 11 and 12. So those are the longer seed that the numbers that the mumbers that are shown the	6	Newfoundland Power include both demand and	6	probably in layman's terms from your own
9 mediation effort, were you not, Mr. Bowman? 10 MR. BOWMAN: 11 A. Yes. 12 Q. And there could be no-there was no agreement 13 in reference to this particular issue, but 14 what was your position, can you tell us that? 15 MR. BOWMAN: 16 A. The only positions that we have filed are with 17 regards to the evidence that we have here that 18 there is, our demand energy rate to 18 Newfoundland Power would seem to have some 20 benefits associated with it. 21 Q. In reference to that issue, yesterday the 22 Industrial Customers requested an update on 23 the load forecast and we see that in 24 Information No. 17. Can we go to that for a 25 moment, pleuse? 26 Page 127 27 row B, you come up with certain load factors 28 where they vary over time, depending on the 29 specific numbers that show up above, but there 20 in on Hydro's system. 21 Q. We see the load factor here below fifty 22 percent, does that suggest efficiency in the 23 system? 24 MR. BOWMAN: 25 A. Well the numbers that are shown there and I 26 a where they eval would seem to the type 27 of information that would filed by Mr. Haynes 28 in the wise phone that the numbers that are shown there are from the type 29 of information that would filed by Mr. Haynes 21 in this Application, indication, indicating the 29 Newfoundland Power loads that Hydro supplies. 20 Industrial Customers requested an update on 21 the load forecast and we see that in 22 where they are prevented an update on 23 the load forecast and we see that in 24 Hydro's supplied peak, 25 there's a push to supplying beak, 26 there's notes that indicate that the 27 numbers that are shown there are from the type 28 information that would filed by Mr. Haynes 29 of information that would filed by Mr. Haynes 20 information that would filed by Mr. Haynes 21 information that would filed by Mr. Haynes 22 information that would filed by Mr. Haynes 23 information that would filed by Mr. Haynes 24 information that would filed by Mr. Haynes 25 information that would filed by Mr. Haynes 26 information that would fil	7	energy charges or should they remain an energy	7	expertise, where you see the load factor there
10 MR. BOWMAN: 10 mean? 11 MR. BOWMAN: 12 Q. And there could be no—there was no agreement in reference to this particular issue, but in regards to the evidence that we have filed are with it may be a see there's notes that indicate that the numbers that are shown there are from the type of information that would filed by Mr. Haynes in this Application, indicating the Newfoundland Power would seem to have some placed benefits associated with it. 20 metere is a number of different Newfoundland Newfoundland Power would seem to have some placed benefits associated with it. 20 metere is a peak less generation credit, so maive peak there's a Peak less generation credit, so maive peak there's a peak less generation credit, so maive peak there's a peak less generation credit, so maive peak there's a peak less generation credit, so maive peak that re's a Hydro supplied peak, there's a peak less generation credit, so maive peak that are imposed on the system. 21 mount of the peak that are imposed on the system, recent load factor and you might think of an peak system? 22 mount of the peak to the annual energy. So this is less efficient the load is in terms of comparing the Newfoundland Power would impose on Hydro's system. 23 maive peak that the winter peak is a relatively inefficient type of row B, you come up with certain load factors are relatively inefficient type of row B, you come up with certain load factors are relatively inefficient type of row B, you come up with certain load factors are relatively inefficient type of row B, you come up with certain load factors are relatively inefficient type of row B, you come up with certain load factors are relatively inefficient type of row B, you come up with certain load factors are relatively inefficient type of row B, you come up with certain load factors are relatively inefficient	8	only rate. Now, you were involved in the	8	and it varies, 49, but averaged over a ten-
11 A. Yes. 12 Q. And there could be no—there was no agreement 13 in reference to this particular issue, but 14 what was your position, can you tell us that? 15 MR. BOWMAN: 15 MR. BOWMAN: 15 of information that would filed by Mr. Haynes in the A. The only positions that we have filed are with 16 A. The only positions that we have filed are with 17 regards to the evidence that we have here that 18 there is, our demand energy rate to 18 Newfoundland Power would seem to have some 20 benefits associated with it. 21 Q. In reference to that issue, yesterday the 22 Industrial Customers requested an update on 23 the load forecast and we see that in 24 Information No. 17. Can we go to that for a 25 moment, please? 27 Page 127 28 Newfoundland Power across row A and the peaks 29 associated with supplying that energy across 3 row B, you come up with certain load factors 4 where they vary over time, depending on the 5 specific numbers that show up above, but there 6 is certain averages for that developed under 7 columns 11 and 12. So those are the longer 8 term more sort of stable, in terms of the load 9 factors that Newfoundland Power would impose on Hydro's system. 10 Q. We see the load factor here below fiffy 11 percent, does that suggest efficiency in the 13 system? 14 MR. BOWMAN: 15 A. Load factor fere below fiffy 16 peaks are considerably higher than the amount 17 they average demand on the system is about 18 half that high. It would mean that the winter 19 peaks are considerably higher than the amount 20 of usage in summer. I'm cautious about the 21 word "efficiency" because different types of 22 customers will impose very different load 23 factors on the system. For example, 24 Industrial Customers may be very high load 25 Industrial load Bur for the wholesaler, it 26 total energy that Hydro povides to 27 total energy that Hydro provides to 28 opercent as a relatively inefficient type of 29 Industrial load. Bur for the wholesaler, it 29 selfcient than 60, but more efficient 29 the peak to the annual energy. So this i	9	mediation effort, were you not, Mr. Bowman?	9	year period to 48.96. What does that in fact
12 Q. And there could be no-there was no agreement in reference to this particular issue, but where the was your position, can you tell us that? 14 what was your position, can you tell us that? 15 MR. BOWMAN: 16 A. The only positions that we have filed are with region of information that would filed by Mr. Haynes in this Application, indicating the whole was there is, our demand energy rate to there is, our demand energy rate to there is, our demand energy rate to the sencitis associated with it. 17 Q. In reference to that issue, yesterday the load forecast and we see that in lafformation No. 17. Can we go to that for a the load forecast and we see that in lafformation No. 17. Can we go to that for a specific numbers that show up above, but there is is certain averages for that developed under term more sort of stable, in terms of the load factors that Newfoundland Power across row A and the peaks age factors that Newfoundland Power would impose on Hydro's system. 10 Q. We see the load factor here below fifty per percent, does that suggest efficiency in the system? 11 Q. We see the load factor here below fifty peaks are considerably higher than the amount of usage in summer. I'm cautious about the half that high. It would mean that the winter peaks are considerably higher than the amount of usage in summer. I'm cautious about the word "efficiency" because different types of factors on the system. For example, and the pack are considerably higher than the amount of usage in summer. I'm cautious about the winter peak, where they vary over different to the peaks that are shown there are from the type of information that would filled by Mr. Haynes in this Application, indicating the method factor the type of information that would filled by Mr. Haynes in this Application, indicating the method factor the type of information that would filled by Mr. Haynes in this Application, indicating the method factor the type of information that the winter in this Application, indicating the method factor the type of info	10 M	MR. BOWMAN:	10	mean?
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11 Q. We see the load factor here below fifty 12 percent, does that suggest efficiency in the 13 system? 14 MR. BOWMAN: 15 A. Load factor of 50 percent means that compared 16 to the peaks that are imposed on the system, 17 they average demand on the system is about 18 half that high. It would mean that the winter 19 peaks are considerably higher than the amount 20 of usage in summer. I'm cautious about the 21 word "efficiency" because different types of 22 customers will impose very different load 23 factors on the system. For example, 24 Industrial Customers may be very high load 21 system is about the 25 should the load factor be? 16 MR. BOWMAN: 17 la talking about in thea load shape, I guess is 18 the right word, on thermal based systems where 19 you build for capacity and once, for example, 19 winter peak. Once you've built enough 20 capacity to meet the winter peak, you could 21 theoretically meet that peak all year round. 22 The more the energy grows, it doesn't derive 23 investment and plant because you've already 24 built, the flow of that energy is not driving	9	factors that Newfoundland Power would impose	9	valued judgment.
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13 A. It depends on the type of system you're 14 MR. BOWMAN: 15 A. Load factor of 50 percent means that compared 16 to the peaks that are imposed on the system, 17 they average demand on the system is about 18 half that high. It would mean that the winter 19 peaks are considerably higher than the amount 20 of usage in summer. I'm cautious about the 21 word "efficiency" because different types of 22 customers will impose very different load 23 factors on the system. For example, 24 Industrial Customers may be very high load 25 Is a Lit depends on the type of system you're 16 talking about in thea load shape, I guess is 16 the right word, on thermal based systems where 18 you build for capacity and once, for example, 18 build for capacity, you have to meet the 19 winter peak. Once you've built enough 20 capacity to meet the winter peak, you could 21 theoretically meet that peak all year round. 22 The more the energy grows, it doesn't derive 23 investment and plant because you've already 24 built, the flow of that energy is not driving	11	Q. We see the load factor here below fifty	11	should the load factor be?
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word "efficiency" because different types of customers will impose very different load factors on the system. For example, Industrial Customers may be very high load theoretically meet that peak all year round. The more the energy grows, it doesn't derive investment and plant because you've already built, the flow of that energy is not driving	19	- · · · · ·	19	winter peak. Once you've built enough
customers will impose very different load factors on the system. For example, Industrial Customers may be very high load 22 The more the energy grows, it doesn't derive investment and plant because you've already built, the flow of that energy is not driving	20	-	20	- ·
factors on the system. For example, 23 investment and plant because you've already 24 Industrial Customers may be very high load 24 built, the flow of that energy is not driving	21	*	21	· · · · · · · · · · · · · · · · · · ·
24 Industrial Customers may be very high load 24 built, the flow of that energy is not driving	22	_ · · · · · · · · · · · · · · · · · · ·	22	
	23	· · · · · · · · · · · · · · · · · · ·	23	
25 factor customers where some may operate at 95 25 high winter peaks, so the higher the load	24		1	
	25	factor customers where some may operate at 95	25	high winter peaks, so the higher the load

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1	factor on a thermal system, the more efficient	1	you had a perfect load factor because, like I
2	is the use of the plant that you have	2	
3	installed. Hydro systems are a little bit	3	
4	different because once you've built to meet	4	4 energy consideration. On a diesel system, if
5	the peak, you may still have energy	5	T1
6	constraints because, say a 40 megawatt plant,	6	at a hundred percent load factor, you could
7	like Granite Canal, can't run at 40 megawatts	7	get by with a lot less plant. On a Hydro
8	all year round, you'd run out of water. So	8	8 system, that's not necessarily the case, but
9	there's some different considerations that go	9	9 as I say, I go back to my comment that
10	into a hydro-based system, like you would	10	generally improving a load factor is
11	still normally talk about increasing the load	11	considered a better use of the assets that are
12	factor as being an improvement in efficiency	12	in service.
13	of the system.	13	Q. And does it suggest that the assets or the
14	BROWNE, Q.C.:	14	capacity is not properly being utilized when
15	Q. Would it suggest that the system where you get	15	we see a load factor of less than fifty
16	below fifty percent, that the system itself,	16	16 percent?
17	the capacity is two times overbuilt than	17	17 MR. OSLER:
18	what's necessary?	18	A. I mean, I think you're going to have trouble
19	MR. BOWMAN:	19	getting anyone to make a generalized
20	A. No, it would just suggest that if the peak	20	statement, or at least to get anybody who's
21	there, looking at column 12, is 993 megawatts,	21	dealing with it technically to make a
22	it isit's considerably higher. The usage at	22	generalized statement that 50 percent is some
23	that time of year is considerably higher than	23	magic number. I know that in the Manitoba
24	the average usage throughout the year, so it's	24	system, we're talking about domestic loads at
25	not like you can get by with half the plant if	25	60 percent roundabout. It depends a lot on
	Page 131		Page 132
1	your mix of loads, your industrial	1	1 MR. OSLER:
2	composition, you degree of electric heat,	2	2 A. Use of electricity to provide space heat in a
3	which will tend to be "inefficient" using the	3	3 home, for example, is what I'm thinking of,
4	standards we're talking about, whether	4	4 and it is generally perceived that if you take
5	electric heat is growing or shrinking, whether	5	5 oil or diesel and you transform it into
6	you're encouraging it or discouraging it, all	6	6 electricity and then use it to heat a home,
7	those things. Usually what somebody does is	7	7 it's not viewed as efficient from the point of
8	get into the details of a DSM study or demand	8	8 view of energy use.
9	side management type of study to understand	9	9 Q. Is that what we're doing here in this
10	where there are efficiencies that are just not	10	province?
11	being captured and how you could improve the	11	11 MR. OSLER:
12	picture and how much improvement could this	12	A. It would appear to be.
13	system do at this time, and that usually	13	13 BROWNE, Q.C.:
14	requires some detailed studies and people can	14	Q. How do you come to that conclusion?
15	argue over the results, but until you have	15	15 MR. OSLER:
16	such a piece of information in front of you, I	16	•
17	wouldn't want to generalize as to what one	17	Power has a significant element of electric
18	particular number means versus another number.	18	
19	Q. You mentioned a few times in your evidence	19	
20	there about electric heat and the expansion of	20	detail. I just picked that up in looking at
21	electric heat. You're talking about space	21	
22	heating. Is that what you're referring to?	22	
1	MR. OSLER:	23	user to give electric heat, it's all been
			_
	A. Yes. Q. And can you expand upon what you mean by that?	24	

Page 133 Page 134 you're having more of an adjustment to do 1 electric heat? Is that too much of a 1 because you have more of that type of use than 2 generalization or is that true? 2 what might otherwise be the case if somebody 3 MR. OSLER: 3 A. Well, it seems to be if you took Industrial changed it. 4 Customer loads which haven't been growing and I want to put the other angle. I'm 5 5 talking efficiency from an energy point of 6 have a high load factor and you compared them 6 view in running an electric system. Why does 7 with the residential loads with electric heat, 7 electric heat tend to expand, whether its in I gather electric heat is a dynamic element 8 8 Whitehorse or in Newfoundland? Because from a and tends to be growing, from what I'm picking 9 10 up, in which case the system's capacity will 10 customer's point of view or an apartment tend to be expanding and the expansion that's builder's point of view or somebody else, they 11 11 occurring is not certainly coming, say, from may think it's more efficient from their point 12 12 the Industrial sector adding more capacity of view. It's a lot easier to deal with, a 13 13 requirement. It's coming from somebody else lot easier to put in, a lot easier to meter, 14 14 doing it, and if you were looking at other et cetera. So efficiency has different 15 15 16 things being equal, electric heat would be 16 perspectives coming from different peoples something that would tend to expand capacity points of view. 17 17 more than it would expand energy. And so yes, 18 MR. BOWMAN: 18 that could be a factor in the system's growth. 19 19 A. I'd want to underline the point that we're talking about electric heat a lot in regards It would also expand the costs because as 20 20 you're running the oil facility to do that, to the peak. It's not only a concern in 21 21 you are contributing to the extra cost of the regards to the peak. There's a--to go to the 22 22 whole system, which all the customers will be Yukon example, there are systems up there that 23 23 tending to be addressing through, whether its are diesel systems that are not capacity 24 24 RSDs or fuel adjustment rates or whatever, and constrained. There's more than enough diesel 25 25 Page 135 Page 136 plant there to supply the peak, but there's their own costs? Does that affect them at 1 1 still a prohibition on electric heating in 2 2 all? 3 those communities because supplying that 3 MR. BOWMAN: energy via burning it in a diesel engine and 4 A. I'll talk about it on a very sort of simple 4 then supplying it down the wires to people's 5 5 incremental basis. Sort of the common refrain on hydro systems like this is that the average houses with all the associated losses is a 6 6 cost installed today is generally lower cost 7 very inefficient use of the power, and the 7 prices don't necessarily reflect that. So than the cheapest next plant addition. So to 8 8 9 they get around that by simply prohibiting it, 9 the extent that the system is having to grow but the concern is not because it's going to and build new plant and make investments in 10 10 Island Ponds or whatever other options are drive higher peaks. It's just because it's 11 11 going to increase the energy side, increase 12 MR. BOWMAN: 12 the consumption of high-cost diesel. 13 13 available, Holyrood, the next Holyrood unit, and that's being brought about as a result of 14 MR. OSLER: 14 electric heat growth, everybody's rates are 15 A. I'd say two things. They prohibit it in those 15 diesel systems up north by prohibiting it or going up. So I don't know whether the down 16 16 by setting a price that is prohibitive. Like side quite correlates in the short term, but 17 17 if you expand more than such and such a level, over the long run, to the extent that the load 18 18 19 you're going to pay for it, and you're going 19 on the system doesn't grow, the relative to pay for it based on the real cost of percentage of good low cost hydro that's been 20 20 running a diesel engine. So that tends to here a long time makes up a bigger portion of 21 21 stimulate attention. what's serving the loads today and the average 22 22 price is lower. So I think not just Q. In terms of the system therefore being built 23 23 around the expansion into electric heat, how Industrial Customers but all the existing 24 24 does that affect the Industrial Customers and 25 25 customers are hit.

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1 MR. OSLER:		1	types of thinking. It's not a blanket saying
2 A. Could I just make onetw	vo sets of comments.	2	you shouldn't have growth in uses that make
3 We don't want to be inte	erpreted as saying	3	sense.
4 we're against growth.	The Voisey Bay	4	BROWNE, Q.C.:
5 processing facility can pro	oduce a lot of jobs,	5	Q. And by moving away from an energy-only rate
6 a lot of development and v	will also require new	6	for Newfoundland Power to a demand and energy
7 capacity. So I don't want-	a long time ago I	7	rate, will that help with that efficiency, in
8 was in a hearing where the	e focal point in the	8	your opinion?
9 late 70s in Ontario, electr	icity costing and	9	MR. OSLER:
pricing to try and get at l	arge industrial	10	A. The general perspective of our evidence is
11 users for expanding syster	ns and increasing the	11	that it provides a price signal and a price
costs for all the people of	Ontario, and that	12	signal generally from an economics perspective
didn't fly in the end after a	a year and a half	13	is something that helps move towards
14 of hearing. But what you	're after is trying	14	efficiency.
to make the system as effi	cient as possible so	15	Q. It's quarter after. What's the plan today,
the cost can be as low as p	possible for all of	16	Mr. Chairman?
17 the customers, Industrial a	as well as everybody	17	CHAIRMAN:
else. I think that's the po	int. And there	18	Q. We started a little bit late this morning.
19 are tests to do with DSM w	which I think some	19	I'd be inclined, Mr. Browne, to go to 12:30 if
20 people have put in evidence	ce here. There is,	20	that doesn'tand we'll take an hour for
21 among other things, tests t	that say make sure	21	lunch, which might give usgain 15 minutes or
you spend money on dema	and side management and	22	something like that, which might be
23 efficiency measures that	at least bring	23	advantageous at the end.
benefits to all rate payers,	and the type of	24	(12:15 p.m.)
25 things we're talking abou	t fall into those	25	BROWNE, Q.C.:
	Page 139		Page 140
1 Q. Just continuing with thi	s theme, I was looking	1	can comment a lot on the difference between
2 for an analogy in terms		2	electricity and airlines. To the extent that
3 In the airline industry in		3	it's relevant, I guess what I would say is if
4 before deregulation, th	ne planes were all	4	I look at column 12 on that exhibit, it
5 flying around with 40 a	and 30 and 50 percent	5	indicates the math that goes into calculating
6 capacity just being used	l, and of course, that	6	a 48.96 percent long-term load factor. In the
7 couldn't continue. Peo	pple were out buying	7	absence of the right decisions in terms of
8 planes and the system of	came, if I can use a	8	pricing signals or whatever else, it's hard to
9 poor choice of words,	came crashing down	9	know how much, to be colloquial, how much low-
around them, I guess,	_	10	hanging fruit there is in terms of improving
resulted and we see now	_	11	that and I think improving that is likely a
the capacity is greater.	We see 80 and 85	12	MR. BOWMAN:
percent in some instance	es.	13	direction that's going to be beneficial to the
In terms of electricity	and capacity and	14	system. I can't say that it would be better
load, is that same analog	gy true, that where we	15	if instead that number was 80 percent. 51 or
see low factors of 49 an			
		16	52 or 53 is probably better than 48, but the
should we not be seeing	d 50 and 48 percent,	16 17	52 or 53 is probably better than 48, but the system would have to look a lot different in
	nd 50 and 48 percent, ng, through greater		
should we not be seein	nd 50 and 48 percent, ng, through greater the system as it's	17	system would have to look a lot different in
should we not be seein sefficiency, more use of	nd 50 and 48 percent, ng, through greater the system as it's than expanding upon	17 18	system would have to look a lot different in order to supply that if it was 80 percent, if
should we not be seein efficiency, more use of currently entailed rather	od 50 and 48 percent, ng, through greater the system as it's than expanding upon try, buying more and	17 18 19	system would have to look a lot different in order to supply that if it was 80 percent, if that were even possible, you know what I'm
should we not be seein efficiency, more use of currently entailed rather it or in the airline indust more aircraft to fly 40 a	ng, through greater the system as it's than expanding upon try, buying more and and 50 and 60 percent	17 18 19 20	system would have to look a lot different in order to supply that if it was 80 percent, if that were even possible, you know what I'm saying. The system has been designed in some
should we not be seeing efficiency, more use of currently entailed rather it or in the airline industry more aircraft to fly 40 are	od 50 and 48 percent, ng, through greater the system as it's than expanding upon try, buying more and and 50 and 60 percent comment on that? Have	17 18 19 20 21	system would have to look a lot different in order to supply that if it was 80 percent, if that were even possible, you know what I'm saying. The system has been designed in some ways to address the type of load factor that's
should we not be seein efficiency, more use of currently entailed rather it or in the airline indust more aircraft to fly 40 a capacity? What's your	id 50 and 48 percent, ing, through greater the system as it's than expanding upon try, buying more and and 50 and 60 percent comment on that? Have before?	17 18 19 20 21 22	system would have to look a lot different in order to supply that if it was 80 percent, if that were even possible, you know what I'm saying. The system has been designed in some ways to address the type of load factor that's there. We know that incremental improvements

Page 141 Page 142 huge concern as far as we understand it, and 1 BROWNE, O.C.: 1 Q. In terms of your own position, do you support 2 from us personally, that the bill that gets a demand energy rate over the current energymailed to Newfoundland Power has two lines on 3 3 only rate? it, one that says energy and one that says 4 4 demand rather than just one that says energy. 5 MR. OSLER: 5 A. From what we've seen, the demand energy rate The core of the issue as to what that looks 6 would seem to be a logical structure to move like is not something that we're particularly 7 7 to in Newfoundland, compared to the energyconcerned with. It's the fact that a bunch of 8 8 only rate, but it's not--it's something we've these other considerations, in terms of price 9 10 addressed more because it's of interest to 10 signals and load forecasts and rate striking everyone than because it's a big driving costs and that sort of thing seem to be solved 11 11 concern of the Industrial Customers we work by what seems to be a relatively 12 12 straightforward and moves--that puts 13 for. So it's not something that I've been up 13 all night thinking about. We've tried to be Newfoundland Power in a more consistent 14 14 of help to the extent we can. footing with other types of distribution 15 15 16 MR. BOWMAN: 16 utilities. A. I guess to expand on that a bit. The demand Q. But within your experience, do most 17 17 energy rate seems to have some benefits in jurisdictions with large wholesale customers, 18 18 terms of solving some problems that are such as Newfoundland Power, have wholesale 19 19 relevant to the Industrial Customers. In the rates with both demand and energy charges? 20 20 end, they may not be the only way to solve 21 21 MR. BOWMAN: those problems. Industrial Customers may be 22 22 A. I would think that would be the norm. I can able to have things like the stuff we're think of at least two examples that don't and 23 23 it may be that the exceptions prove the rule talking about here, in terms of price signals 24 24 or that addressed another way. So it's not a in this case. One of the examples that 25 25 Page 143 Page 144

2

doesn't is a system where wholesale utility is

basically only buying surplus hydro power, 2

3 despite the fact that they have enough thermal

generating capacities to supply their whole 4

5 load. They're buying an Interruptible sort of

energy-only basis because it's cheaper than 6

7 running their own units and the other utility

has surplus hydro. That one has an energy-

only rate, but it reflects the specific 9

circumstances that are there. 10

> The other one that I'm aware of that has an energy-only rate is up in Yukon where there had been a demand energy rate in place until the period where the distributor became the manager of the assets for the wholesaler and suddenly the distributor's rate was switched to an energy-only rate. So they're two notable exceptions.

19 MR. OSLER:

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A. That last one, the distributor is not managing 20 that system at the moment, and the matter may 21 come up for review at the next rate hearing, 22 so they may be asking some people from 23 Newfoundland to come to Whitehorse or 24 something, since you guys have had more 25

experience debating this. 1

Q. And that's where--in the Yukon, is that the

3 same place where baseboard electric radiation

is outlawed? 4

5 MR. BOWMAN:

A. Well, it would be on different systems, but 6

it's the same place, yes. 7

8 MR. OSLER:

A. To be very clear, if you're dealing with

isolated diesel system in Yukon or the 10

Northwest Territories, you know, Old Crow in 11

12 MR. OSLER:

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19

13 Yukon and there's some other ones, that's what

Mr. Bowman's referring to. There is baseboard

heating in the Whitehorse Aishihik Faro grid 15

system in the Yukon where there is hydro as 16

the dominant source of supply and actually, 17

given the closure of their large industrial 18

customer, it's not only the dominant source of

supply, it's basically the only source of 20

supply because they don't need to run any 21

diesels at the moment. So that system is 22

where the issue of electric heat had been 23

debated through time. When the dominant 24 25

industrial customer had been operating, they

_		_	- Company of the comp
	Page 145		Page 146
1	were running diesels on the margin all year	1	of price signals. Someone may argue whether
2	round, just like you run Holyrood. It seemed	2	they're exactly the right ones, but right now,
3	to be very inefficient to have electric	3	there's no rate related price signal regards
4	heating.	4	to peak loads, so it's hard to know what's
5	BROWNE, Q.C.:	5	there, in terms of DSM that could be easily
6	Q. But I gather that your answer is that it's the	6	accomplished. So I don't necessarily see the
7	norm for large wholesale customers, such as	7	link.
8	Newfoundland Power, to have wholesale rates	8	Q. So your answer is no, it's not necessary to
9	with both demand and energy charges?	9	carry out a marginal cost study?
10	MR. BOWMAN:	10	MR. BOWMAN:
11	A. That's my understanding, and not having done	11	A. I don't think it's a reason to delay
12	any sort of detailed survey on this, but that	12	implementing a demand energy rate.
13	seems to be the type of conclusion that one	13	Q. And it's true that the Industrial Customers
14	comes to, based on reviewing this issue.	14	have a demand energy rate without the benefit
15	Q. In your opinion, is there a need to carry out	15	of a marginal cost study? That's true, isn't
16	a marginal cost study before implementing a	16	it?
17	demand energy rate?	17	MR. BOWMAN:
18	MR. BOWMAN:	18	A. Yes.
19	A. I don't see the link between the two, in terms	19	Q. Would Hydro and its customers benefit from a
20	of the items we just talked about in regards	20	marginal cost study?
21	to the demand energy rate. The marginal cost	21	MR. BOWMAN:
22	study doesn't change the fact that most other	22	A. I think that there's room to talk about a
23	wholesale or retail utilities seem to face	23	marginal cost study being of benefit to Hydro
24	this type of rate structure. It doesn't	24	and its customers in certain aspects. There's
25	change the fact that there will be some form	25	different ways that marginal costs are used in
	Page 147		Page 148
1	different types of jurisdictions. The one	1	until what time?
2	that is very common, and I think is very	2	CHAIRMAN:
3	relevant to the system is in terms of DSM, in	3	Q. 1:30 we'll reconvene.
4	terms of things like determining the value of	4	BROWNE, Q.C.:
5	the various DSM programs and how much benefit	5	Q. Okay, thank you.
6	they may provide over the long term or things	6	CHAIRMAN:
7	like Interruptible B, when we talk about	7	Q. Thank you.
8	Manitoba and the evidence that Mr. Osler	8	(LUNCH BREAK 12:25 P.M.)
9	refers to being filed in an RFI at the '98	9	(RESUME - 1:33 P.M.)
10	hearing that he was in in Manitoba. That was	10	CHAIRMAN:
11	all related to Manitoba Hydro's marginal cost	11	Q. Thank you. Due to some commitments by the
12	study and how one moves from that to valuing	12	CHAIRMAN:
13	the curtailable loads. So there's a lot of	13	panel members, we will break at 4:15. We will
14	places where it probably would show up as	14	end at 4:15 today. We have a break scheduled
15	particularly relevant in regards to that DSM	15	for 3:15, which we could probably do at 3:00.
16	side, for sure.	16	We'll take our 3:00 break and then we'll
17	Q. And would a marginal cost study help to	17	terminate at 4:15, if that's satisfactory,
18	determine the benefit of something like	18	please. Okay. Anything else, Ms. Newman?
19	Interruptible B?	19	MS. NEWMAN:
20	MR. BOWMAN:	20	Q. No.
21	A. Well, yes, that's what I was saying, that in	21	CHAIRMAN:
22	many cases where one talks about that type of	22	Q. Mr. Browne, when you're ready please.
23	rate, it's in terms of benefits that are	23	BROWNE, Q.C.:
24	measured by a marginal cost type study, yes.	24	Q. Yes, good afternoon. There was evidence given
25	Q. I think we could stop there, Mr. Chairman,	25	in this hearing that after Granite Canal, the
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Page 149 only major hydrology by way of a major project bring Island Pond in if, as I understand from 1 1 left will be Island Pond, which I think can 2 2 when Mr. Haynes was up here, it's higher cost give us 36 megawatts. You've mentioned Island than the type of resources that are there now. 3 3 Pond in your evidence earlier today. Given Bringing on a higher cost resource to a system 4 4 that has rates of the type that's here, you that that's where the province is headed, do 5 5 know, an average cost raises the cost for 6 you believe now is the time to look to address 6 7 what could be a potential shortage from a everyone. 7 hydrological source down the road? 8 8 So shortage of hydraulic resources would be one reason to think about the type of 9 MR. BOWMAN: 9 A. I would say from the perspective we're coming 10 planning that you put there, but even in a 10 from, the long-term picture here is today shorter term, where there's more than enough 11 11 there's sufficient capacity on the system and to get us to Island Pond and a bit beyond, you 12 12 energy on the system that looks to be 13 know, on that sort of say six years to the 13 continuing to exist for some period of time, addition and until the next hydraulic after 14 14 six years, as what's in our evidence. That that is required, the same impetus is probably 15 15 16 may have changed slightly with the wind 16 still there. These things don't turn around project being brought in, and some different quickly. If you're going to try to reduce 17 17 factors going on, and at that point, someone loads, it takes some time for people to 18 18 would need to look to add something to the respond and so there's a need to be planning 19 19 system. Presuming that's Island Pond and it's to do that and have that in place well in 20 20 the last opportunity for hydraulic, it may advance of when you're seeing that type of 21 21 mean that one gets into problems the next time shortage that you're talking about. 22 22 you need an addition past that. But there's--23 Q. Are you aware that during the hearing, Hydro 23 it's not irrelevant just looking at the witnesses told us if the metallurgical 24 24 facility goes ahead at Voisey's Bay in the problem that arises that leads to the need to 25 25 Page 151 Argentia area that all of the capacity of the Voisey load. I don't know whether--I 1 1 gather from the transcript that somebody said Island Pond, the 36 megawatts plus they will 2 2 3 need other, other sources will be used with the Voisey load would be in the neighbourhood 3 that one project. Are you aware of that? of 50 megawatts and requiring about 400 4 4 5 MR. BOWMAN: 5 gigawatt hours a year. So from the information that sort of is casually available A. I know that I would be commenting from the 6 6 7 perspective of reading the evidence of Mr. 7 to one without getting into the detail, I Haynes at that Table 8 that we had up earlier wouldn't be surprised that somebody testified 8 8 9 that shows the peaks on the Island and the 9 saying they needed more than just the one energy on the Island and where the next plant facility. But I didn't--I haven't read it 10 10 is required, and rather than the type of 11 11 over and I don't know that to be a fact that gradual growth that you would normally see 12 12 MR. OSLER: where when the next plant is required can move 13 13 it be the type of detailed planning you'd like a lot, there's a gradual growth and then you to see somebody doing sooner rather than 14 14 get clobbered by a large load coming on, in 15 15 later. terms of the numbers that are there. So 16 BROWNE, O.C.: 16 17 whether that means Island Pond needs to be 17 Q. Have you had any experience in assisting utilities with a conservation program with the built for Voisey's, I don't know, but the 18 18 19 point out of that type of long-term load 19 particular objectives to bring down the number forecast is that a large load coming on stream of megawatts that are used system wide? 20 20 seems to be the thing that's driving the next 21 21 MR. OSLER: 22 plant investment. 22 A. Specifically us doing the assistance to the utility to do that, no. Being involved in 23 MR. OSLER: 23

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processes where utilities are dealing with

that, in terms of the DSM game plan, yes. The

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A. But the specifics of your question, I think

were would Island Pond be sufficient to meet

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1	capital hearing in Manitoba in the late 80s,	1	achieve that. I think we're about to go into
2	early 90s, they were introducing demand side	2	the same type of debate right now in Manitoba
3	management at that time and there was	3	with a hearing that's about to start early
4	considerable debate. In the Yukon, similar	4	next year, and there's a considerable interest
5	debate in the first half of the 1990s. So	5	in some new evidence being brought forward and
6	it's not a subject one's unfamiliar with at	6	a new study, I think, that Manitoba Hydro has
7	all, but we haven't been responsible for	7	just tabled on demand side management and I
8	advising people exactly how to do it or how to	8	presume we'll go through the same discussion
9	implement it.	9	all over again, the extent to which the
10	Q. From your experience in Manitoba that you	10	targets are conservative versus could be
11	mentioned, was there a specific objective	11	bumped up. So yes, in general terms, when
12	target to bring down the number of megawatts	12	I've seen people do this type of thing, they
13	used in the system?	13	have come up with targets that are usually
14	MR. OSLER:	14	based on analysis of the loads and the system
15	A. There were very specific targets that were	15	and where they think potentials are and what
16	developed, as I recollect. I don't have it, by	16	it would cost to get them and whether those
17	any means, at my fingertips, and they were	17	costs are effective and efficient in the light
18	based on a percentage of the system's forecast	18	of the system's cost structure.
19	requirements, both capacity and energy, and	19	Q. In your evidence on page 45, you make
20	they came up with somea very material part	20	reference to Exhibit RDG which summarizes a
21	of the discussion was over the reasonableness	21	number of the aspects of the two-part rate
22	of the targets, those who thought they should	22	that require examination, and you address a
23	be higher and those who thought they were more	23	number of those, including the price signal,
24	E ,	24	revenue stability, neutrality and the NP
25	break down the game plan as to how they would	25	generation. In your opinion, can all of these
	Page 155		Page 156
1	issues be readily addressed in this particular	1	the system. As we looked at it, and said, you
2	hearing by the Board in its decision?	2	know, a valid concern is how to prevent them
3	3 MR. BOWMAN:	3	from gaming the system, it struck us that the
4	A. Well, there's certainly information, as I've	4	various types of rate designs that were being
5		5	talked about looked at a very technical way to
6		6	prevent that when it didn't seen necessary
7	7 6 6	7	given that there's a very clear legislative
8	of them. I haven't followed in detail all of	8	prevention of that. That Newfoundland Power
9	ε	9	seems to bethere seems to be a direction
10		10	under the EPCA that very clearly says the
11		11	Island should be operated on the basis of the
12	-	12	MR. BOWMAN:
13		13	lowest cost to all customers and I would think
14		14	a reasonable implementation of that ensures
15		15	that nobody can game the system to undermine
16	• •	16	that policy objective to their own benefit.
17		17	This is identified in Mr. Brockman's
1	3 MR. BOWMAN:	18	supplementary evidence. He notes a concern
19	A. I think our concern would be that whatever	19	that the wrong rate structure might send

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Newfoundland Power something that encourages

that type of activity, that they might have an incentive to game the system within the rate.

But it seemed to us that whether you're

talking the sample rate that's developed or

some other option for that, the key is there

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rate gets developed doesn't send that type of

flagged was that the type of sample rates that

were developed in terms of their treatment of

NP's generation went a long way down that road

of saying how do we prevent them from gaming

price signal, and one of the things that we

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Page 157 should be a credit that provides a normalized, 1 2 some sort of normalized hydraulic credit, no credit for the thermal, and the peak is only--3 only that part is netted off. That would be 4 an improvement on the sample rate to ensure 5 6 that that gaming incentive isn't there, and to 7 ensure that there isn't an opportunity for them to undermine the policy objectives that 8 are in that piece of legislation. 10 BROWNE, Q.C.: Q. You use the term "gaming the system." What do 11 you mean by that? 12 13 MR. BOWMAN: A. Well, at any--within the context of 14 regulation, there's the ability for the 15 16 utilities to recover the cost that they incur, subject to those costs within that type of 17 policy we're talking about being as low as 18 possible within the system that's here. By 19

gaming the system, I mean an opportunity for

one customer or utility to operate the system

somehow profit or lower their own costs. It's

less efficiently to undermine that policy

objective, but as a result of doing that,

to basically work within sort of a

Page 159 And like you say, Mr. Brockman highlights that

concern and we've highlighted it as well. Our point is you don't have to net all their generation off and give them the benefit as if they ran it in order to prevent them from the need to run it. You would have to say, consistent with the legislation that's in place in this province, we'll put in place a rate that doesn't need to net it off and doesn't allow it to be netted off. All that will be netted off is a normal amount of hydraulic generation that's consistent with their plants, no dispatch of thermal generation because that's not planned for in the year, and use their actual peak less that normalized hydraulic, in terms of the peak that's used for their billing purposes.

Q. When I hear a term like "gaming the system" it sort of raises other issues. Are you suggesting that there will be a way around the demand energy rate or the peaking that--what are you suggesting here?

23 MR. BOWMAN:

A. The rate that's in place, whatever rate gets developed, shouldn't allow the ability for

Page 158 mathematical formula or mathematical 1

2 calculation of a rate to bring their own rate

down, despite the fact that it's increasing 3 4

costs overall.

Q. And how are you tying that in with hydraulic 5 storage patterns? 6

7 MR. BOWMAN:

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A. What I'm saying is that if Newfoundland Power is going to be a demand rate based on the demand peak they send on the system, there are two ways that they can ameliorate that peak, both of which would, in fact, raise costs on the integrated system, on the total combined cost that the Island Interconnected System incurs. One is to change the way they use their hydraulic generation, which would--to encourage spill at other times or to result in Hydro having to spill water or somehow increase the cost of the system in order to curb their peak so that they can get the benefit of a lower peak on the system. And the other is to dispatch their thermal, even though it's not the lowest cost generation, to curb their peak at those very short periods of peak time in order to benefit from the rate.

Page 160 somebody to raise the cost on the system by 1

2 the way they operate their generation, but by

doing so, lower their own costs. In other 3 words, shift those costs over to someone else. 4

5 That would be, you know, inappropriately

finding mathematical variations or almost use 6

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the word "loopholes" within the rate

structure. The idea being, you know, for 8 9

example if a rate is developed--what I recall of the RDG-2 exhibit develops a two-part rate. 10

One that's at a lower cents per kilowatt hour, 11

12 MR. BOWMAN:

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one that's at a higher cents per kilowatt hour. It's designed on a particular load pattern. If somebody decides that as a result of that particular rate structure, we can reduce the number of high cost units we buy and increase the number of low cost units we buy by shifting when we use our water, even though that's undermining the system, we're profiting from it. That's what I mean by gaming. That type of result shouldn't be

22 allowed to result in somebody's ability to 23

profit from the system. 24

25 BROWNE, Q.C.:

Page 161 Page 162 Q. Some general questions. Is it a widely activities that reduce load? 1 accepted practice, consistent with the 2 2 MR. BOWMAN: principle of ensuring rates reflect costs, to 3 A. Well, there's--the incentives would all be in signal costs separately in customer energy and terms of the bill they pay to Hydro. In a 4 4 demand charges, where practical to do so? Is sense, it would all be on the energy side, not 5 5 that a commonly accepted rate design practice? on the demand side, within the rates that they 6 6 7 (1:48 p.m.) pay. Within the--because there isn't the 7 price signal in terms of the demand peaks that 8 MR. OSLER: 8 they set, in terms of the bills that get A. Your question included customer costs as well 9 10 as demand and energy? 10 mailed out each month. Q. Yes. I'm into principles now. I'm into Q. So on the energy, using the energy only rate, 11 11 signalling. there's--would you say there's little 12 12 13 MR. OSLER: incentive for Newfoundland Power to engage in 13 demand side management activities? A. Generally speaking, where feasible, in the 14 14 sense of metering and other things. It's 15 15 MR. BOWMAN: 16 common to reflect the three factors you've 16 A. Well, I guess--I want to be careful here. If noted, which come out of the system's costs. we're talking about incentive in terms of is 17 17 The cost of serving the customer is distinct there a possibility that they could reduce 18 18 their costs more than they reduce their from the cost for serving the capacity versus 19 19 the cost of serving energy and reflected in revenues, there's probably very few because to 20 20 rates, where feasible. the extent that energy use goes down, there's 21 21 Q. Where there's a system with an energy only probably lost revenues to Newfoundland Power 22 22 rate, what incentive is there, in this 23 that are greater than the lost--of cost that 23 particular jurisdiction, for Newfoundland get flowed through to Hydro, to the extent 24 24 Power to engage in demand side management that they can curb their peak. There's no 25 25 Page 163 Page 164 savings in terms of the bill that we're lot of profit motivated, if I want to be that 1 1 talking about. There may be saving--what I'm simple, types of incentives to get involved 2 2 3 saying with demand side management, there may with demand side management. Moving to a 3 be ways to go out and reduce the line losses demand energy rate would send a better price 4 4 5 so that you're buying less units that get 5 signal so that people sitting in this room in lost. There may be ways to reduce the, you a Newfoundland Power GRA, I presume it's this 6 6 7 know, service to power that they use 7 room, can sit there and know that curbing themselves. Those type of demand side their peaks will reduce the overall cost that 8 8 9 management activities have a certain price customers have to pay immediately on the 9 signal, but in terms of saying we want to find bills. That type of incentive becomes clearer 10 10 in the pricing sent to Newfoundland Power. 11 a way for our customers to use less kilowatt 11 hours or to use a lower peak, there's not a 12 12 MR. BOWMAN: lot, if any, price signal in terms of what's 13 13 I'm not convinced that it's going to, you there right now. know, cause a big incentive for Newfoundland 14 14 Q. But if there was a demand and an energy rate, Power to run out and start a big demand side 15 15 would we see then some incentive for them to management program on their initiative, in and 16 16 engage in demand side management activities? of itself, if that's what you're asking. 17 17 18 BROWNE, Q.C.: 18 MR. BOWMAN: 19 A. I want to be cautious about--demand side 19 Q. In terms of matching, is it a regulatory principle to match the distinct cost causation management is not normally thought of as 20 20 something that utilities jump up and down effects pertaining to demand and energy? 21 21 about and get real excited about. It's 22 22 MR. OSLER: usually something that's more thrust upon A. Yes, to the extent that you can through, where 23 23 them, in terms of their normal way of thinking feasible, through assignment of costs to 24 24

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demand and energy and then tracking it through

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about it. Because in general, there's not a

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Page 165 rates, so that if somebody changes their 1 consumption of demand versus their consumption 2 of energy, they see the cost tracked 3 differently. Essentially, why you set a rate 4 is to try and track costs based on 5 consumption, as distinct from just sending the 6 7 guy a bill for the year, if you got really simple about it. We could take the whole bill 8 for the year and divide it up and send 9 10 everybody one bill for the whole year. That wouldn't be very fair. So we start trying to 11 track how much this person used versus that 12 person. The heck with what was forecast, how 13 would you track it. And then demand versus 14 energy is just a sophistication that you add 15 16 to that in case somebody's load varies based 17 on demand versus energy. It's not, in principle, complicated. It just gets 18 complicated in practice. 19 Q. In reference to the Burin Peninsula and 20 whether or not these assets be assigned to 21

common as proposed by Hydro, we had the experience, which I'm sure you're familiar with and you've seen in the evidence, of a power outage some months ago, in which the

Page 166 resources of both the Burin Peninsula and the 1

2 Great Northern Peninsula were called upon to

assist the common good. Would that not, in 3 itself, be persuasive evidence that these 4

assets be assigned to common? 5

6 MR. BOWMAN:

A. No. In the Burin Peninsula, what we're talking about is a transmission system that 8

is, in principle, very similar to the GNP 10

transmission system and this type of relationship was reviewed and discussed back

in the 2001 hearing, and it's not 12

determinative that the generation at the other

end of the line being a benefit to the Island 14 system results in the transmission necessarily 15

being assigned to common. The GNP, in fact,

went exactly the other way. What we're saying 17

is in terms of Burin, if anything, that same 18

cost type of drivers are pushing it the other 19 way. 20

Q. But you can see some merit in an argument from 21

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a layperson such as myself that because they 22 23 helped us all out that there's some common

element there? Would you not concede that? 24

25 MR. BOWMAN:

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transmission is of common benefit. 1

> 2 Q. In reference to the mediation report, if we

3 can go to the items not agreed upon, I think

that was Consent 1, and if we can go to item 4 5 O? What's your position regarding the

treatment of Newfoundland Power's thermal 6

7 generation?

8 MR. BOWMAN:

A. Our position is that the current treatment that's proposed in the cost of service results 10

11 in the Industrial Customers and Rural

12 MR. BOWMAN:

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13 customers paying 60 percent of the cost of

those units, which completely is not

15 consistent with the benefits that those units at all provide to Newfoundland Power's 16

17 customers or the Island Interconnected grid

and the relative level of each. 18

19 BROWNE, O.C.:

20 Q. Would your answer be the same if there was a change in the wholesale power rate to a demand 21

energy rate?

23 MR. BOWMAN:

24 A. Yes.

25 Q. In reference to Item U there, it relates to

A. Well, I would concede that these are not absolutely black and white issues. On the GNP

generation, which more goes to "is this

generation of use in meeting peaks." The

evidence is when you look to the generation itself, it can, in certain circumstances, help

meet peaks, but by and large, the generation 7

that's there is serving the local loads for

9 things like transmission outages. In the case of transmission, it's an entirely different 10

argument. It's a matter of is this

transmission primarily being there to 12 interconnect some generation at the other end 13

to the grid for the benefit of the grid or is 14

it really primarily there to serve a bunch of 15

customers who live near the end of a lateral 16

17 system, and I think the evidence is to the

latter, that the transmission is built and 18 19 maintained and justified on the basis of

providing service to some customers. That 20

there happens to be some generation down at

the other end that can support the system may 22 lead to a different thought in terms of how 23

generation is assigned, but it certainly 24 25

doesn't get you through the door in saying the

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1	the demand charges for interruptible power	1	and comment on the terms of reference of any
2	above the power on order for Industrial	2	such study?
3	Customers. What is the basis for the demand	3	MR. BOWMAN:
4	charges assigned by Hydro for this type of	4	A. I would think that in terms of having a study
5	interruptible power?	5	done that's going to be in at these type of
6	MR. BOWMAN:	6	hearings, it's probably further ahead having
7	A. This is an item that we haven't gotten into	7	something that's got a little more input at
8	covering today. It'sHydro's proposal has	8	the outset. I think that the input that's
9	been changed in the latest Banfield evidence	9	going to be required though probably goes
10	to reflect agreement between the Industrial	10	beyond the terms of reference. It's probably
11	Customers and Hydro that would not have demand	11	also going to be a fair amount of information
12	charges for interruptible power, but would	12	required from say the Industrial Customers.
13	have an energy only rate. Our understanding	13	I'm sure that in order for someone to sit down
14	of the demand charges that were put is a	14	and do a marginal cost study, they're going to
15	relatively arbitrary level of cost recovery	15	need to talk to some of the big users on the
16	from customers. I don't have the quote in	16	
17	front of me. It's somewhere in here, but to	17	and what they're planning. So I imagine it
18	reflect a contribution to the system or	18	
19	something of that nature.	19	participation throughout if it's going to end
20	Q. That's fair enough. Item X there makes	20	up in a useful product.
21	reference to the marginal cost study that	21	Q. So you would see it as a collaborative effort?
22	Hydro has proposed to undertake or the Board	22	MR. BOWMAN:
23	may order undertaken. Should the Industrial	23	A. I think it would probably -
24	Customers, Newfoundland Power and the	24	Q. Among all the stakeholders.
25	consumers all have the opportunity to review	25	MR. BOWMAN:
	Page 171		Page 172
1	A. I think it would be of more value and less	1	morning, Manitoba's version of Interruptible
2	contentious by the time it makes it here if a	2	B, the curtailable rates. That was the
3	marginal cost study were to be undertaken for	3	utility was sent off to work with customers on
4	the purposes of, you know, for example,	4	a working group towards how a rate like that
5	planning DSM, that there's some opportunity	5	could be implemented and they came back with
6	for participation rather than it gets sort of	6	
7	bounced on the desk with the next GRA that	7	mediated settlement outside of thewithin a
8	gets filed.	8	GRA filing. So that type of thing, from what
9		9	we've seen, can result in some progress
10	Q. And if any such study is ordered and following	10	outside of this type of forum. It would seem
11	the study, should all these participants have	11	to make sense in terms of the marginal cost
12	the opportunity to review and comment on the		MR. BOWMAN:
13	study, following its filing with the Board, in	13	study you're talking about as well.
14	your opinion?	14	
1	MR. BOWMAN:	15	marginal cost study to be discussed here, one
16	A. My impression is that in terms of a utility	16	
17	being sent off to do studies that actually get	17	Industrial Customers and Newfoundland Power.
18	somewhere, it's further ahead to the extent	18	
19	that some clear direction is provided for the	19	Power wouldn't be part of a marginal cost
20	level of consultation or the level of	20	study that's intended to deal with the Island
21	interaction with customers as opposed to it	21	Interconnected System. Like it clearly would
22	just being done internally by the utility.	22	·
22	The more of that consultation and interaction	22	may be different and special compared to say

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24

25 BROWNE, Q.C.:

may be different and special compared to say

the Industrial Customers.

The more of that consultation and interaction,

the further it may go. For example, to use

the one that we spent some time on this

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1 Q. But because it's Hydro's marginal cost study,	respectively, and if I look at that, would you
2 the study should be essentially undertaken by	2 agree that your education and training is
3 Hydro, as opposed to Newfoundland Power and	3 primarily in the field of economics? Would
4 the Industrial Customers or ourselves? Would	4 that be fair?
5 you agree with that?	5 MR. OSLER:
6 MR. BOWMAN:	6 A. Certainly would be in my case.
7 A. I think in terms of the hearing that we're	7 MR. BOWMAN:
8 here to deal with today and the Board Order	8 A. Mine is a little bit more applied, but yes,
9 coming out of this, it would need to direct	9 primarily in economics.
Hydro to go off and do the study in	10 Q. So neither of you are systems planning
consultation with the people. I don't think	engineers in any respect?
it'll direct the Industrial Customers to do	12 MR. OSLER:
13 it.	13 A. That's is definitely correct.
14 Q. These are our questions. Thank you.	14 MR. BOWMAN:
15 CHAIRMAN:	15 A. That's correct.
Q. Thank you, Mr. Browne. Thank you, gentlemen.	16 Q. So you'd agree with me that Mr. Haynes,
17 Good afternoon, Mr. Kelly.	17 Hydro's vice-president of production, would be
18 KELLY, Q.C.:	in a better position to tell us about system
19 Q. Thank you, Chair.	operating characteristics and system planning
20 CHAIRMAN:	20 for the future?
21 Q. When you're ready, please.	21 MR. OSLER:
22 KELLY, Q.C.:	22 A. I would hope so.
23 Q. Good afternoon, Mr. Osler and Mr. Bowman. I	23 MR. BOWMAN:
24 had a look at your education and	24 A. Agree.
25 qualifications in attachments A and B	25 Q. Okay. I thought you would. Let's have a
Page 17	Page 176
quick look at page 36 of Mr. Haynes' pre-filed	1 criteria, and that is that the system should
testimony. I want to be sure we're on the	2 have sufficient generating capacity to satisfy
3 same understanding of criteria to be used	a loss of load LOLH expectation target of not
4 here. Now Mr. Haynes sets out the two	4 more than 2.8 hours, and do you accept that
5 criteria which govern Hydro's planning, and	5 criteria?
6 the first is the energy criteria and that the	6 MR. OSLER:
7 system should have sufficient generating	7 A. I accept it for the purposes of the discussion
8 capability to meet all of its firm energy	8 and have no reason to challenge it.
9 requirements with system capability, and	9 Q. Okay. And that type of criteria, is that
Hydro's counsel this morning took you to the	10 commonly applied?
table of the firm capacity. Do you accept	11 MR. OSLER:
that energy criterion as appropriate?	12 A. It is applied in different systems and some
13 MR. OSLER:	systems don't use it as their determinative
14 A. Yes.	approach to define when they need new
15 Q. And is that criterion commonly applied in your	15 capacity. So it's not as straightforward as
16 experience?	the first one.
17 MR. OSLER:	17 KELLY, Q.C:
18 A. As it's stated, it's sort of true by	18 Q. Okay. You would accept it's reasonable in
definition, the practical issues that arise as	terms of Newfoundland's Interconnected system?
to how you define firm energy with a hydraulic	20 MR. OSLER:
system and when you have systems that go back	21 A. Again, I'm not an expert in which approach
and forth. So yes, it's commonly stated with	they should take in the Newfoundland system.
a lot more elaboration as you get into detail	I just accept it as the one that they're
24 and different systems.	taking and I presume it's soundly based and I
25 Q. Okay. Now the second criteria is the capacity	

Page 177 Page 178 Q. And for example, if Hydro were to go out and have no reason to believe otherwise. 1 do a review and determine the various sources 2 Q. Okay. Can we go to Table 8 then of the 2 criterion or of Mr. Haynes' evidence? And in of supply and determine a least cost 3 3 this particular table, it shows the various alternative and it decided that well, project 4 4 forecast loads from 2003 through to 2012 and A was the least cost alternative and they 5 5 6 if we look at just 2004 for a second, there is added, say, 50 megawatts to the system, that 6 7 an LOLH factor, loss of load hours, of 1. 1 would improve both the energy balance and the 7 hours? Do you agree with that? LOLH criteria? Accept that? 8 9 MR. OSLER: 9 MR. OSLER: A. That's what the table shows, yes. 10 A. I accept that. 10 Q. Right. And then that increases all the way Q. Now, if that generation addition, would you 11 11 down over the years until we get down to 2011 agree, adds long term benefit to the system? 12 12 where it has reached 3.5 hours and the 13 13 MR. OSLER: criteria is exceeded, agree? A. Well, I mean, just looking at the table we've 14 14 got here, this is where the issues start to 15 MR. OSLER: 15 16 A. Correct, that's what it shows. 16 get not quite as straight forward. There's a very big jump in some issues in 2012 Q. Okay. Now so at some stage along the way, it 17 17 is necessary to add additional generating associated with some of the things we were 18 18 talking about a bit earlier to do the capacity to Hydro's system, and would you 19 19 agree with me that any generation which is processing facility. Adding a 10 gigawatt 20 20 added to the system goes in as a block of hours worth of energy in 2009 or whatever is 21 21 generation? It doesn't go in one megawatt at needed to make 2010 might look pretty silly by 22 22 the time you get to 2012, if you haven't done 23 a time? 23 some long term planning, comparison of options 24 MR. OSLER: 24 and everything else. So, system planning, A. Yes. 25 Page 179 Page 180 beyond looking at these indicators and as the 1 MR. BOWMAN: 1 LOLH, last time we were here a couple of years 2 A. Yeah. Long term capital hearings have often 3 ago, wasn't adequate, didn't mean that anybody dealt concurrently with both the DSM planning 3 turned off all the lights. It just meant that and the generation planning to see what's the 4 4 5 they had an LOLH greater than 2.8. To get 5 best balance for the system. Q. So, if we looked at some of the things you into what should be done next in this system 6 6 7 is a long term planning and options assessment 7 just said, we need to look at the time frame that goes way beyond looking at this table. 8 8 over which that is needed and we need to look 9 Q. Okay. And I accept that answer and what you at what are the available capabilities 9 just said is, we would need to look at long options, expanding the capability and you'd 10 10 want to look at what are the available 11 term planning and the system options, in other 11 words, the type of options for the next 12 KELLY, Q.C.: 12 generation capability? 13 13 options, for example, like interruptible industrial rates, all of those factors, 14 MR. OSLER: 14 agreed? 15 A. Correct. 15 16 MR. BOWMAN: O. Correct, okay. 16 17 MR. BOWMAN: 17 A. All of those and probably more, yes. Q. And probably more, okay, I accept that. Now, A. I would just add that presumably, it would 18 18 19 also be in addition to the type of things that 19 just come back to my question about adding might be done to remunerate the peaks or the--let's say you made the decision, you're 20 20 energy there, in terms of a resource available going to add a block, that then adds a block 21 21 to meet those peaks, maybe building something of generation capacity. Can I suggest to you 22 22 or it maybe taking on a DSM type program; they that that doesn't make any of what is already 23 23

24

25

there unuseful. It all still has a purpose on

the system. Do you agree with that?

Q. Like your curtailable Interruptible B?

both can help -

24

_		_	January II
	Page 181		Page 182
1	MR. OSLER:	1	then have to come back and replace it four or
2	A. It doesn't change what's there. It may change	2	,
3	in terms of physical assets. It may change	3	MR. OSLER:
4	the ordering of when certain plants are called	4	A. Generally speaking, it would not make sense to
5	upon to be used. It may change the extent to	5	\mathcal{E} , \mathcal{I}
6	which some of them are used as much,	6	
7	therefore, et cetera, in terms of energy use.	7	1 &
8	All sorts of things like that, that meansthe	8	
9	plants that are there are no longer	9	talk about the current 2004 test year
10	necessarily operated the exactly the same way	10	
11	as they would have been without this new block	11	excess of that determined to be required by
12	as you call it.	12	Hydro to service the Island Interconnected
13	Q. But it doesn't mean that they're no longer	13	load. But I take it from what you just said
14	used and useful?	14	that all that you're really saying there is,
15	MR. OSLER:	15	well, it exceeds the 2.8 LOLH factor, correct?
16	A. By itself, it doesn't, no. Although, I can	16	MR. OSLER:
17	think of situations where it might, but that's	17	A. Correct.
18	justit doesn't automatically. You have to	18	Q. You're not saying that the plant is not, in
19	have some reason that showed that it had made	19	fact, used and useful?
20	redundant some plants -	20	MR. OSLER:
21	Q. And if you had capacity that existed on that	21	A. Definitely not saying that, no.
22	system in the form of thermal units or	22	Q. Okay, good, I just wanted to be sure we got
23	whatever and you added this new block, it	23	that right. Now, can we go next to JRH No. 3
24	would not make good economic sense to take a	24	· · · · · · · · · · · · · · · · · · ·
25	plant, good useable plant out of service and	25	to page 5, Table 2.1. And that table shows
	Page 183		Page 184
1	the various generation assets which are on the	1	Paradise River or the various thermal plants
2	Northern Peninsula, Doyles-Port aux Basques	2	on the Northern Peninsula are actually used
3	and Burin Peninsula line. And the total,	3	and useful in the meeting that LOLH criteria,
4	we've got 15.1 in the first block, 15.8 in the	4	aren't they?
5	second block and 34.7 in the second (sic.)	5	MR. BOWMAN:
6	block, the total is 65.6 megawatts in total.	6	A. Well, given the configuration of the system
7	Now, some of that is Hydro's and some of that	7	that there's right now including all of the
8	is Newfoundland Power's, do you agree?	8	various interconnections, those plants assist
9	MR. BOWMAN:	9	in meeting the LOLH criteria.
10	A. Yes.	10	Q. Okay. And one of the questions that
11	Q. Now, we go to Table 3.3 on page 12, what Mr.	11	Industrial Customers asked was question 336,
12	Haynes has done there is he has set out the	12	KELLY, Q.C.:
13	impact of taking those various items off the	13	IC 336, and this question provided, in
14	system. And if you look at deleting all of	14	essence, what would be the situation if the 15
15	them, in 2004 you'd have an LOLH of 3.5 hours,	15	megawatt gas turbine on the Burin Peninsula
1	. 9		
16	correct?	16	throughout thein the situation with the
ı	correct? MR. BOWMAN:	16 17	throughout thein the situation with the turbine moved elsewhere. And you may be
ı			
17	MR. BOWMAN: A. As I understand it, this table takes the current system as it's configured including	17	turbine moved elsewhere. And you may be
17 18	MR. BOWMAN: A. As I understand it, this table takes the	17 18	turbine moved elsewhere. And you may be familiar, that's the one that we talked about earlier, in Salt Pond. Well, if you go to the table with that one, there's a table at page
17 18 19	MR. BOWMAN: A. As I understand it, this table takes the current system as it's configured including	17 18 19	turbine moved elsewhere. And you may be familiar, that's the one that we talked about earlier, in Salt Pond. Well, if you go to the
17 18 19 20	MR. BOWMAN: A. As I understand it, this table takes the current system as it's configured including all the interconnections and simple removes	17 18 19 20	turbine moved elsewhere. And you may be familiar, that's the one that we talked about earlier, in Salt Pond. Well, if you go to the table with that one, there's a table at page 3.3, page 3 of 3 of thathere we goand in fact, that would give you, in 2003, a 3.1.
17 18 19 20 21	MR. BOWMAN: A. As I understand it, this table takes the current system as it's configured including all the interconnections and simple removes the generation that we just talked about, sixty somewhat megawatts and it comes up with 3.5.	17 18 19 20 21	turbine moved elsewhere. And you may be familiar, that's the one that we talked about earlier, in Salt Pond. Well, if you go to the table with that one, there's a table at page 3.3, page 3 of 3 of that-here we goand in fact, that would give you, in 2003, a 3.1. So, all of that generation capacity including
17 18 19 20 21 22 23 24	MR. BOWMAN: A. As I understand it, this table takes the current system as it's configured including all the interconnections and simple removes the generation that we just talked about, sixty somewhat megawatts and it comes up with 3.5. Q. So, all of those generation assets, whether	17 18 19 20 21 22	turbine moved elsewhere. And you may be familiar, that's the one that we talked about earlier, in Salt Pond. Well, if you go to the table with that one, there's a table at page 3.3, page 3 of 3 of that-here we goand in fact, that would give you, in 2003, a 3.1. So, all of that generation capacity including that unit as well, is important in meeting the
17 18 19 20 21 22 23	MR. BOWMAN: A. As I understand it, this table takes the current system as it's configured including all the interconnections and simple removes the generation that we just talked about, sixty somewhat megawatts and it comes up with 3.5.	17 18 19 20 21 22 23	turbine moved elsewhere. And you may be familiar, that's the one that we talked about earlier, in Salt Pond. Well, if you go to the table with that one, there's a table at page 3.3, page 3 of 3 of that-here we goand in fact, that would give you, in 2003, a 3.1. So, all of that generation capacity including

	7 temper 10, 2000 171410	1	age 142 Hydro 5 2000 General Rate Application
	Page 185		Page 186
1	MR. BOWMAN:	1	all three units at Holyrood were operating
2	A. As I understand this table, it's saying that	2	near full capacity, hydraulic production on
3		3	
4		4	
5		5	
6		6	
7		7	~
1	(2:16 p.m.)	8	
9		9	
10		10	
11	· · · · · · · · · · · · · · · · · · ·	11	* * *
12			2 MR. BOWMAN:
13		13	
1			•
14		14	
15		15	
16	•	16	
17	•	17	
18	•	18	
19		19	•
20) MR. BOWMAN:
21	subsequent trip of all three units at	21	•
22		22	
23	•	23	2
24	•	24	· · · · · · · · · · · · · · · · · · ·
25	interconnected system was at an all time peak,	25	there was a problem on the system tomorrow,
	Page 187		Page 188
1	all of that capacity could and would be called	1	they are useful to the radial systems does not
2	on as needed to meet interconnected load	2	show that they can send electricity out from
3	including the load of the Industrial	3	the loads that they are serving when they're
4	Customers?	4	
5	MR. BOWMAN:	5	
6	A. Yes, including the load of the GNP, including	6	
7		7	
8		8	
9		9	
1	MR. BOWMAN:	10	
11	A. Because it's a basket of loads that is	11	
12			2 KELLY, Q.C.:
13		13	· ·
14			4 MR. OSLER:
15		15	
1	MR. OSLER:	16	
17		17	
18		18	_
1		19	
19	noining in the comment about tooling at the co		down in Fort aux Dasques, meets a local load
20			down there at a time of evetem needs that
20	numbers for the system, to suggest that the	20	, I
21	numbers for the system, to suggest that the individual radial systems don't need to have,	20 21	enables other plants elsewhere on the system
21 22	numbers for the system, to suggest that the individual radial systems don't need to have, for reliability purposes and capacity, down at	20 21 22	enables other plants elsewhere on the system to service the Industrial Customers. In other
21 22 23	numbers for the system, to suggest that the individual radial systems don't need to have, for reliability purposes and capacity, down at the end of those lines, don't need to have	20 21 22 23	enables other plants elsewhere on the system to service the Industrial Customers. In other words, you can't look at it as simply isolated
21 22 23 24	numbers for the system, to suggest that the individual radial systems don't need to have, for reliability purposes and capacity, down at the end of those lines, don't need to have these facilities. That's not the type of	20 21 22 23 24	enables other plants elsewhere on the system to service the Industrial Customers. In other words, you can't look at it as simply isolated little blocks, can you?
21 22 23	numbers for the system, to suggest that the individual radial systems don't need to have, for reliability purposes and capacity, down at the end of those lines, don't need to have these facilities. That's not the type of	20 21 22 23 24	enables other plants elsewhere on the system to service the Industrial Customers. In other words, you can't look at it as simply isolated

	Tuge 142 Hydro 5 2005 General Rate Application
Page 189	
1 A. Well, you can and you do and that's why the	the end, the evidence is that everybody who is
2 Hydro study comes to the conclusion, the GNP	2 also on the system is worse off. They're not
3 shouldn't be assigned a common. And when you	better off because there's a plant up there.
4 make that conclusion based on the logic, the	4 Yeah, they're better off if there's plants up
5 same issues arise with respect to generation.	5 there given that there's load up there, but
6 So, with respect to the electrons can flow, it	6 the truth of the matter is the GNP
7 doesn't prove that the cost should go with	7 interconnection that was designed to serve
8 them. And the fact that you built the grid,	8 rural customers degraded power quality on the
9 extended it then with the GNP and had some	9 system. So, it's not like those diesels up
generation at the other end of it, all of	there are these big boom to the people who are
those are true, but they don't prove how the	remaining on the system. Overall, that was a
cost should fairly and efficiently and	degrading to power and that's set out in IC
effectively be allocated, which is the issue	13 399.
at stake, with the generation or the GNP	14 Q. Let's go at it this way. You'll agree with me
transmission.	that all of those generation assets, number
16 Q. If that -	one, helped defer generation additions? Do
17 MR. BOWMAN:	·
	17 you agree with that? 18 MR. OSLER:
18 A. Sorry, what we're discussing here is this very	
simplistic test that says, does turning them	19 A. Well, if you start from the assumption you've
on make it better than turning them off?	got the loads on the GNP and the loads on the
That's the type of test that we talked about	Burin and they're interconnected and something
in 2001 and was rejected in regards to the GNP	has to supply them, then having a unit there
transmission. The point in that regard is,	to supply them reduces the need for that unit
doesby running this transmission up the GNP,	somewhere else.
is everybody better off or worse off. And in	25 Q. Okay. And they each help meet system reserve
Page 191	Page 192
Page 191 1 requirements that result in reduced incidents	
	Page 192
1 requirements that result in reduced incidents	Page 192 1 A. I don't agree with the conclusion. That means 2 that there is no excess capacity. This is
requirements that result in reduced incidents of under frequency load shedding?	Page 192 A. I don't agree with the conclusion. That means that there is no excess capacity. This is something that Mr. Brockman brought up in his
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1 requirements that result in reduced incidents 2 of under frequency load shedding? 3 MR. BOWMAN: 4 A. Well, again with the same caveats that I just 5 set out, yes.	Page 192 1 A. I don't agree with the conclusion. That means 2 that there is no excess capacity. This is 3 something that Mr. Brockman brought up in his 4 Supplementary Evidence as well, that somehow 5 the implication that the test that we've set
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110	veiliber 15, 2005 With	-1 agc	11L Hydro 8 2003 General Rate Application
	Page 193		Page 194
1	transmission line. Now, we start to say, and	1 MR.	BOWMAN:
2	where else does that lead us. So, it's not	2 A	A. What it means is we're not at 3.97 or we're
3	that it somehow hinges on their being so much	3	not at 2.8; we're considerably better than
4	that the system is overbuilt or any of that	4	2.8.
5	sort of thing. It's just saying, given the	5 C	2. So, having accepted then that they are used
6	situation today, where we're not at 3.97 and	6	and useful within the meaning of what we all
7	we're not at exactly 2.8. We're at 1.1, which	7	understand that to mean, then the Cost of
8	is considerably better that the target, 2.8.	8	Service methodology was set by this Board in,
9	We can take a deep breath, saying, there's six	9	I think, '93 and approved again in 2002, are
10	year until we need to add plant, how do we	10	you suggesting that that be now re-opened
11	start to look at something over the longer	11	again, the Board having decided that?
12	term and refine the regulation of this	12 MR.	BOWMAN:
13	utility.	13 A	A. No, not at all. We're just saying used and
14	KELLY, Q.C.:	14	useful is a test that someone uses in
15	Q. Okay. So, your answer is that your reference	15	determining the revenue requirement of a
16	to excess is not measured against some	16	utility. Should they be able to recover these
17	standard, but simply against kind of where we	17	costs because they represent assets that are
18	were in 2001. Is that what I'm understanding	18	used and useful or not used and useful. When
19	you to say?	19	you get the Cost of Service, it's a completely
20 1	MR. BOWMAN:	20	different way of thinking about it which says,
21	A. No, I'm just saying that the word excess there	21	fine, they're used and useful, but for whom
22	does not mean over built, therefore, we should	22	and what is the relative benefits that arise
23	ride around writing off assets or pretending	23	from them. And the evidence in this regard
24	they're not useful.	24	did not suggest that 94 percent of the benefit
25	Q. Right.	25	of Great Northern Peninsula arises to
	Page 195		Page 196
1	Industrial Customers and Newfoundland Power	1	page 69. And I don't need to take you there,
2	who are not on the Great Northern Peninsula	2	you can take the point. Interruptible B looks
3	interconnection. The evidence in this regard	3	over long-term and generation additions also
4	is that 99 percent of the time that units are	4	look over the long-term, don't they, as we've
5	used, it's for the rural customers. So,	5	just discussed?
6	assigning 94 percent of the cost to non-rural		BOWMAN:
7	customers, despite the fact they're used 99		A. Yes.
8	percent of the time for rural customers, is		O. Okay. Now, in NP-136, just put that one up,
9	not reasonable cost tracking, even if you	9	the interruptible B is 46,000 kilowatts of
10	accept that they're used and useful.	10	interruptible capacity available 25 occasions
11	Q. Okay. Now, having accepted that all of these	11	per year at \$28.20, which works out to
12	plants are used and useful and we've just had		LY, Q.C.:
13	a look at how they provide capacity on the	12 KEL	approximately \$1.3 million?
14	system, let's have a little bit of a look at		BOWMAN:
15	this Interruptible B issue. If I take you to		A. Yes, it's \$28.20.
16	page 44 of your evidence at lines 17 and). A kilowatt?
17	following, you make the point in there that		BOWMAN:
18	looking at Interruptible B should be viewed as		A. Annual cost per kilowatt, that is -
19	a long term process?	1	2. Right. It works out annually to about \$1.3
1	a long term process? MR. BOWMAN:	20	million?
20 1	MR. BOWMAN: A. Yes.		BOWMAN:
22	Q. And down in line 24?		A. Yes, that's very close.
1	MR. BOWMAN:	1	2. Now, let's go over to IC-194. And this was
23 1	A. Yes.	23 (the question posed by the Industrials as to
1			
25	Q. Okay. And you make a similar comment over on	25	what Hydro intended to do. And I'll just take

Page 197 1 you down to about line 11. "On this basis"— 2 well, go back a bit. "An assessment of the capability of the Island Interconnected System to the tomer future load requirements as summarized on Table 8 of Mr. Haynes indicates that deficits in capacity are not forecast until 7 2011. On this basis Hydro has decided not to 8 renew the interruptible B contract at this 1 time. Prior to projected capacity 1 needs and value of similar arrangements and 12 based on the load requirements and the sources available at the time. So they say that this 14 46 megawatts is not needed for capacity at this 15 this point in time. Is that how you understand it? 17 MR. BOWMAN: 18 A. That's Wast I read there, yes. 19 Q. Okay. And in fact, they give a similar answer at natural rity 1 this point in time. Is that how you understand it? 21 you to NP-140. Find the other reference for 2 you after. Now, this table shows the impact of LOLH with that 46 megawatts of interruptible B taken off the system? If we need to add plant to address the 10 giawant 5 hour shortfall in 2009 that would start to trigger the thought of plant in additions. The interruptible B in itself. 2 That's point No. 1 you've made? 2 MR. BOWMAN: 2 The Solved at only on just at the 2 interruptible B in itself. 3 That's point No. 1 you've made? 4 MR. BOWMAN: 5 A. Well, it does have some impact on the LOLH requirement every year. I don't think that would be the basis for talking about tenewing it, but it does—it the aday years it had 2 some impact on LOLH and in the later years that would continue? 2 Okay. Now, out of that can we summarize two points? See if you agree with these? No. 1, that that interruptible B in seed. 5 Okay. Now, out of that can we summarize two points? See if you agree with these? No. 1, that the interruptible B in address the 10 giawant 5 would continue? 5 Okay. Now, out of that can we summarize two points? See if you agree with these? No. 1, that the interruptible B in the seed of the point o	140 veiliber 13, 2003		-1 agc	11L Hyuro 8 2003 General Nate Application
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3 all, doesn't affect the LOLI because it's 4 to meet future load requirements as summarized 5 on Table 8 of Mr. Haynes indicates that 6 deficits in capacity are not forecast until 7 2011. On this basis Hydro has decided not to 8 renew the interruptible B contract at this 9 time. Prior to projected capacity 10 requirements in 2011 Hydro will review the 11 need and value of similar arrangements and 12 based on the load requirements and the sources 13 available at the time. So they say that this 14 de megawatts is not needed for capacity at 15 this point in time. Is that how you 16 understand it? 17 MK. BOWMAN: 18 A. That's what I read there, yes. 19 Q. Okay. And in fact, they give a similar answer 20 at NP-174? They simply say-no, I got the 21 wrong reference there for you. Let me take 22 you to NP-140. Find the other reference for 23 you after. Now, this table shows the impact 24 of LOLH with that 46 megawatts of 25 interruptible B taken off the system? If we 10 of itself does not in some way prevent the 26 need to add plant to address the processing 27 plant that we're talking about being added or 28 it interruptible B in itself. 29 Q. Okay. Now, out of that can we summarize two 10 points? See if you agree with these? No. I, 11 that that interruptible 46 megawatts has some 12 impact on the LOLH requirement every year? 13 That's point No. I you've made? 14 MK. BOWMAN: 15 A. Well, it does have some impact on the LOLH and in the later years 16 that would continue? 17 AWEL, DAWAN: 18 A. Well, it does have some impact on the LOLH and in the later years 18 that would continue? 19 Q. Okay. Now, out of that can we summarize two points? See if you agree with these? 19 A. Well, what I'm saying is looked at in and of itself it doesn't change the need for additional plant that we're talking about renewing it, but it does-in the early years it had some impact on LOLH and in the later years that would continue? 20 Q. Okay. Now, out of that can we summarize two later that would continue? 21 Q. Okay. But when you get to the	1 you down to about line 11. "(On this basis"	1	scroll up the table a little bit. You'll
4 to meet future load requirements as summarized of feficits in capacity are not forecast until 2011. On this basis Hydro has decided not to requirements in 2011 Hydro will review the need and value of similar arrangements and based on the load requirements and the sources available at the time. "So they say that this a value of this point in time. Is that how you turn this point in time. Is that how you after. Now, this table shows the impact of to LOLH with that 46 megawatts of the top of itself does not in some way prevent the need to add plant to address the processing plant that if you would sun to the total trip that that we're tabling about being added or any on just at the interruptible B in stelf. 9 Q. Okay. Now, out of that can we summarize two points? See if you agree with these? No. 1, that hat interruptible 46 megawatts has some impact on the LOLH requirement every year? 15 That's point No. 1 you've made? 16 Tis looked at only on just at the interruptible 46 megawatts has some impact on the LOLH requirement every year? 17 That's point No. 1 you've made? 18 MR. BOWMAN: 19 Q. Okay. Now, out of that can we summarize two points? See if you agree with these? No. 1, that that interruptible 46 m	2 well, go back a bit. "An asse	essment of the	2	notice that it doesn't affect the capacity at
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6 (2:30 p.m.) 7 2011. On this basis Hydro has decided not to 8 renew the interruptible B contract at this 9 time. Prior to projected capacity 10 requirements in 2011 Hydro will review the 11 need and value of similar arrangements and 12 based on the load requirements and the sources 13 available at the time. So they say that this 14 46 megawatts is not needed for capacity at 15 this point in time. Is that how you 16 this point in time. Is that how you 17 MR. BOWMAN: 17 A. Well, just that if you compare these LOLH 18 MR. BOWMAN: 18 A. That's what I read there, yes. 19 Q. Okay. And in fact, they give a similar answer 21 you to NP-140. Find the other reference for 22 you after. Now, this table shows the impact of LOLH with that 46 megawatts of 23 you after. Now, this table shows the impact 24 of LOLH with that 46 megawatts of 25 interruptible B taken off the system? If we 26 interruptible B taken off the system? If we 27 of itself does not in itself address the 10 gigawatt 5 hour shortfall in 2009 that would start to 6 trigger the thought of plant in additions. 7 It's looked at only on just at the interruptible B of that can we summarize two 10 pointes? See if you agree with these? No. 1, that that interruptible B of material filed by Mr. BoWMAN: 15 A. Well, it does have some impact on the LOLH requirement every year? 18 That's point No. 1 you've made? 19 NR. BOWMAN: 19 A. Well, it does have some impact on the LOLH requirement every year? 11 that that interruptible B of material filed by Mr. BoWMAN: 19 A. Well, it does have some impact on the LOLH requirement every year? 19 That's point No. 1 you've made? 19 NR. BOWMAN: 19 A. Well, what I'm saying is looked at in and of itself it doesn't change the fact that a protect of the top of the would search that and the plant, and the sort it doesn't change the fact that a protect of the top of the would search that and the plant, and the reverse of plant the ween of additional plant, it does change what kind of plant and how much plant, but it doesn't change the fact that	4 to meet future load requireme	nts as summarized	4	still 2009 for the energy, of course, which
7 MR BOWMAN: 10 renew the interruptible B contract at this 10 time. Prior to projected capacity 11 need and value of similar arrangements and 12 based on the load requirements and the sources 13 available at the time." So they say that this 14 de megawatts is not needed for capacity at 15 this point in time. Is that how you 16 understand it? 16 understand it? 17 MR BOWMAN: 18 A. That's what I read there, yes. 19 Q. Okay. And in fact, they give a similar answer 20 at NF-1742 They simply say-no, I got the 21 wrong reference there for you. Let me take 22 you to NF-140. Find the other reference for 23 you after. Now, this table shows the impact 24 of LOLH with that 46 megawatts of 25 interruptible B taken off the system? If we 2 need to add plant to address the processing 3 plant that we're talking about being added or 2 it does not in itself address the 10 gigawatt 5 hour shortfall in 2009 that would start to 6 trigger the thought of plant in additions. 7 It's block at only on just at the 12 impact on the LOLH requirement every year? 13 That's point No. 1 you've made? 14 MR BOWMAN: 15 A. Well, it does have some impact on the LOLH requirement every year? 13 That's point No. 1 you've made? 14 MR BOWMAN: 15 A. Well, it does have some impact on the LOLH and in the later years 20 that would continue? 21 Q. That would be the basis for talking about renewing 18 ii, but it does—in the early years it had 19 some impact on LOLH and in the later years 20 that would continue? 21 Q. Chay. Would be the basis for talking about renewing 18 ii, but it does—in the early years it had 19 some impact on LOLH and in the later years 20 that would continue? 21 Q. Chay. Would be the basis for talking about renewing 18 ii, but it does—in the early years it had 19 some impact on LOLH and in the later years 20 (Q. And when you say it may affect the type of plant backwann. 21 yee of plant between Mr. Haynes' table 8 originally and this revised table 8, and if 24 MR. BOWMAN: 22 Q. Q. Kay. But when you get to the critical period 24 MR. BOWMAN:	5 on Table 8 of Mr. Haynes	indicates that	5	doesn't change and 2011 for the LOLH factor?
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22 MR. BOWMAN: 23 A. Yes. 24 Q. Okay. But when you get to the critical period 25 originally and this revised table 8, and if 26 so, what? 26 MR. BOWMAN: 27 Originally and this revised table 8, and if 27 so, what? 28 MR. BOWMAN:				• •
23 A. Yes. 24 Q. Okay. But when you get to the critical period 25 So, what? 26 MR. BOWMAN:				
24 Q. Okay. But when you get to the critical period 24 MR. BOWMAN:				- ·
		ne critical period	24 MR.	
	1	-	25 A	. Well, what I'm saying is that when one looks

	Page 201		Page 202
1	at generation planning sequences and the	1	considerations that go into the next plant,
2	longer terms considerations, as Mr. Osler has	2	when it's added, how much is added, what's the
3	pointed out, you look at capital planning, you	3	plant that follows that. In types ofthe
4	look at both in the context of all those	4	types of numbers we're seeing here is if you
5	things you can do on the demand side and all	5	look through sort of 2004 to 2010 the peak is-
6	the options that are available on the supply	6	-and I'm looking at the peak column there, the
7	side and you consider them as a bundle. In	7	peak is growing by sort of five to ten
8	this case, interruptible B only relates to	8	megawatts a year. If you can curb that by 46
9	capacity, not to energy.	9	megawatts from interruptible B, that sort of
10	Q. Um-hm.	10	deals with, under these type of conditions,
ı	MR. BOWMAN:	11	perhaps five years of normal growth of peak.
12	A. And there are other things that may be	12	Once that's complemented on the energy side,
13	available that only relate to energy. A wind	13	it does give you an ability to think about
14	plant down on the Burin sounds like a classic	14	deferring plant.
15	example. It's going to provide a certain	15	Q. And you've said it mayall of the factors
16	number of gigawatt hours, but it doesn't give	16	that you've just listed, and you had a
17	you the capacity you can lean on and ensure	17	wonderful big long list, you said it may
18	it's going to be there when that system needs	18	impact the type of plant that is required.
19	it. That's typically how wind is thought	19	Now, how do you determine whether it will or
20	about. So, when you look at in combination of	20	it won't?
21	DSM activities, perhaps some moves to shift	21	MR. OSLER:
22	people off of electric heat, an interruptible	22	A. Well, you'd have to do the do the studies, the
23	B type program, Newfoundland Power two-part	23	long-run studies.
24	rate, the type of plants that are available,	24	Q. Exactly. You've got to do the long-run
25	it may materially shift the type of	25	studies, don't you? What kind of long-run
23	it may materially sinit the type of	43	studies, don't you: What kind of long-run
23		23	· · · · · · · · · · · · · · · · · · ·
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1			Page 204 have to make decisions about what they're
1	Page 203 studies, Mr. Osler? MR. OSLER:	1	Page 204 have to make decisions about what they're going to do to supplyto address supply
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A. Yeah, exactly.

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the next 12 to 24 months someone's going to

Page 205 Page 206 Q. Right. Because you don't want to spend money and the different options that are available 1 1 on whether it's a DSM interruptible B program and what they supply in terms of energy versus 2 2 if it's not going to achieve the right demand and the relative unit costs that are 3 3 objective versus spending money on a plant or there and the potential uptake of DSM. It's 4 4 vice versa? In other words, you want to know not--all I'm noting is that it's not the, say, 5 5 6 what's the least cost option, would you not? the margin cost study that we'd been talking 6 7 MR. BOWMAN: about earlier may feed into that DSM side of 7 it, but it's not, it's not all that's there. A. That's correct. 8 Q. I agree with you. And isn't that absolutely Q. Correct. And in order to do that you've got 9 10 to look at the long-run incremental costs on 10 correct what you just said, that one of the the system, don't you? things you've got to know is what the long-run 11 11 planning of the system is, how that long-run 12 MR. OSLER: 12 planning is going to take place, what are the A. In order to look at the type of things to 13 various long-run incremental options, what are select options, both on the demand side, 14 14 those costs, got to look at the marginal cost 15 management side and on the supply side, yes. 15 16 Q. Yes. And you -16 of those and then you got to look at other alternatives. But you got to have all that 17 MR. BOWMAN: 17 information, do you not? 18 A. I just note that the people who have been in 18 these types of reviews or these types of 19 19 MR. OSLER: capital hearings, whether that's the Yukon A. Yeah. Particularly when you're looking at big 20 20 type hearing or the type of Mr. Osler was investments of the type that seem to be 21 21 referring to that happened in Manitoba in the approaching with, if you believe these 22 22 forecasts, these type of numbers you got in early '90s or even one that's now coming up 23 23 again in Manitoba, incremental costs is one of front of us. The decisions on meeting that, I 24 24 the things, but it's the planning sequences presume, will take place relatively soon and 25 25 Page 208 Page 207 therefore the planning and the analysis, the It's premature to say we don't need it this 1 1 collaborative discussions would be relatively year, let's stop it. What's more appropriate 2 2 3 soon. Hopefully sooner. And all that we're is to say we won't make any drastic changes on 3 talking about with the interruptible B is a the running off and buying a gas turbine, 4 4 5 program that year by year costs whatever, one 5 let's say we won't make any drastic changes in million or 1.3 or whatever it is, and it's committing to a Hydro plant and we won't make 6 6 7 being terminated, our point is, somewhat 7 any drastic changes in regards to cancelling prematurely because you haven't got all the DSM programs. But hopefully not very far down 8 8 9 studies we're just talking about and you 9 the road here in terms of address various haven't got all that information in front of concerns that people have in the room about 10 10 11 us and so--and all we've got is this to look 11 how that peak's going to be met, a bunch of 12 at and on that basis we've suddenly stopped a 12 MR. BOWMAN: 13 ten-year program. 13 people who's got some planning background and some authority to deal with this and can get Q. So right now we don't have the information to 14 14 know whether paying \$1.3 million now is good in a room and do something that starts to try 15 15 value for the money or not, do we? to address that sort of thing. 16 16 17 MR. BOWMAN: 17 KELLY, Q.C.: A. Oh, I think it's--I would say it's actually Q. So it's important to maintain the status quo 18 18 19 the contrary. We don't have the information 19 while we go get the information, that's essentially the thrust of your position, to know that it is a reasonable long-term 20 20 decision to stop providing to a customer to 21 21 agreed? cancel what is effectively a DSM program in 22 22 MR. OSLER: advance of a serious well thought out, near A. With respect to Interruptible B, yes. 23 23 term, 12 to 24 months type of review as to the Q. And with respect to other major parameters and 24 24

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drivers that affect that type of information?

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relative role that can play in something.

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	Page 209		Page 210
1	MR. BOWMAN:	1	paying a share of that, correct?
2	A. I would say with a system planning.	2	MR. BOWMAN:
3	Q. Okay. All right. Now, let me just move along	3	A. Well, similarly, yes.
4	here a bit. Just give me a moment. The next	4	Q. Right. But each of those systems have
5	place I want to go to is I'd like to come back	5	capacity on them which ultimately feed into
6	now and talk about these transmission lines.	6	the entire capacity requirements of the entire
7	We talked about the generation assets a little	7	system, agreed?
8	bit, but let's discuss the transmission lines.	8	MR. BOWMAN:
9	Now, if the Great Northern Peninsula is	9	A. No. I think that's where you're incorrect and
10	assigned to Hydro Rural, then that is of	10	
11	benefit to the Industrial Customers because	11	2001 hearing. And in fact, the evidence in
12	they don't bear the cost associated with	12	
13	having it charged to common, is that	13	interconnection, including both the GNP
14	essentially correct?	14	
ı	MR. BOWMAN:	15	
16	A. If the Great Northern Peninsula is assigned to	16	
17	Rural Customers, the costs that are, in the	17	· · · · · · · · · · · · · · · · · · ·
18	last hearing reviews, it was somewhere in the	18	
19	order of \$1.5 million gets charged to Rural	19	
20	Customers, rather to all Island Interconnected	20	
21	Customers.	21	the system quality even though there's
l	Q. Right. And in the case of Doyles and Port aux	22	generation out there at the time of peak that
22	Basques transmission assets, if they're		matters.
23		23	
24	assigned to Newfoundland Power, well, that's a	24	
25	benefit to the Industrials because they're not	25	plants help meet the LOLH criteria?
	<u> </u>		* *
	Page 211		Page 212
1	MR. BOWMAN:	1	Page 212 made the point as we went through the RFI
1 2	MR. BOWMAN: A. Well, if all that is saying that given that	1 2	Page 212 made the point as we went through the RFI which is currently on the screen that in fact
l	MR. BOWMAN: A. Well, if all that is saying that given that somebody built a transmission line to the GNP,		Page 212 made the point as we went through the RFI which is currently on the screen that in fact
2	MR. BOWMAN: A. Well, if all that is saying that given that	2 3	Page 212 made the point as we went through the RFI which is currently on the screen that in fact it affects the LOLH even in 2004? MR. BOWMAN:
2 3	MR. BOWMAN: A. Well, if all that is saying that given that somebody built a transmission line to the GNP, is it further ahead with generation there or not generation there, the island is further	2 3	Page 212 made the point as we went through the RFI which is currently on the screen that in fact it affects the LOLH even in 2004? MR. BOWMAN: A. I guess what I'm getting at is we're in an
2 3 4	MR. BOWMAN: A. Well, if all that is saying that given that somebody built a transmission line to the GNP, is it further ahead with generation there or not generation there, the island is further ahead with generation there because it helps	2 3 4	Page 212 made the point as we went through the RFI which is currently on the screen that in fact it affects the LOLH even in 2004? MR. BOWMAN: A. I guess what I'm getting at is we're in an entirely different world here where first we
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N	November 13, 2003 Multi-Page [™] NL Hydro's 2003 General Rate Applicatio			
	Page 213		Page 214	
		1	MR. BOWMAN:	
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{			MR. BOWMAN:	
		9		
10		10		
11	· · .	11		
1	2 (2:45 p.m.)	12		
	3 KELLY, Q.C.:	13		
14		14		
15	•	15		
16		16		
17		17		
18		18		
19	-	19	-	
1) MR. BOWMAN:	20		
21		21	think it's mixing apples and oranges to simply	
22		22		
23	_	23		
24	•	24		
25	-	25	•	
	Page 215		Page 216	
		1	have a few megawatts that you could actually	
		2		
3		3		
1	4 MR. BOWMAN:	$\begin{vmatrix} 3 \\ 4 \end{vmatrix}$		
Ι.	T . C.1	l _	Q. No, exactly, it will be something more. Now,	
		6		
7		7		
1 8	â	8		
] }		9		
1	MR. BOWMAN:	10		
11		11	Paradise River to Sunnyside. And at Paradise	
12			KELLY, Q.C.:	
13		13		
14			MR. BOWMAN:	
15		15		
	5 MR. BOWMAN:	16		
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1-	proper may to think account model to that the	1-0	Julo Piulit illutit bilouid oo fioffod do of	

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value?

were discussing.

A. No. I'm just saying that that wouldn't be the

reason for coming to the conclusion he was--we

22 MR. BOWMAN:

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wind provides zero megawatts of reliable

capacity. I know that that's the way wind is

thought about in other jurisdictions that I've

reason someone concludes that the wind does

dealt with. It may be that here for some

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- Q. Well, why single out the hydro plant, that's 1 what Mr. Osler did? Maybe Mr. Osler could 2
- address that question. 3
- 4 MR. OSLER:

7

- A. The hydro plant was close to the grid on the 5
- map that we saw earlier. And really in order 6
 - to be pragmatic the point was made that given
- that it is close to the grid and could be 8
- viewed as contributing as much to the grid as
- 10 to the Burin Peninsula which is further away
- than the grid is from the Paradise, if my 11
- memory serves me correctly, we wouldn't object 12
- to it being, and that particular segment of 13
- the transmission line being included as part 14
- of the common assets of the system. 15
- 16 Q. Well, if that's the case why wouldn't you
- include the line from Doyles, Port aux Basques 17
- because at Rose Blanche there's six megawatts 18
- of capacity, hydro capacity, hydroelectric. 19
- 20 MR. BOWMAN:
- A. We haven't spent any time on the Doyles, Port 21
- aux Basques. We understood it was basically 22
- 23 uncontested that the line is not appropriately
- assigned common. Hydro did that study and 24
- concluded it and we haven't seen anyone 25
 - Page 219
- transmission line and done it as a result of 1
- 2 benefitting Island Interconnected System.
- O. That's true -3
- 4 MR. BOWMAN:
- 5 A. The point is, but the point is that you
- wouldn't have run the transmission line the 6
- 7 rest of the way down the Burin Peninsula if it
- weren't for the fact that there was a fairly 8
- 9 large load of Newfoundland Power customers.
- That line services them, it's built to serve 10
- 11 them, it's designed to give them the power
- that they need. Power doesn't flow backwards 12
- at the time of year when it matters. The peak 13
- down there is 58.7 megawatts which is well 14
- above the capacity that's installed there now, 15
- and I have that from IC-339. It's exactly 16
- analogous to the GNP transmission. It's a 17
- transmission line that's built to service a 18
- 19 bunch of customers out in a rural area. It's
- 20 not built because there happens to be a gas
- turbine there and we want to get that power to 21
- the grid, which is what we're saying about 22
- that stretch that goes to Paradise River. 23
- Perhaps you could choose that logic to get to 24
- the stretch of Paradise River, but it doesn't 25

- suggest otherwise.
- 2 Q. Well, EES has raised the question that they

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- perhaps all should be because they all have--3
 - they all connect capacity to the system.
- 5 MR. BOWMAN:
- A. Yeah. It appears that EES relies on a
 - conclusion that Hydro made that all of this
- capacity is critical to meeting the system's 8
- needs. That conclusion though needs to be 9
 - read in context of the study that it was
- 10 included in, which failed to note that whether 11
- 12 that capacity is in fact--recognizing it's
 - used and useful, what are the relative
- benefits of it to the various customer 14
- classes. The point about Hydro is in terms of 15
- 16 8 megawatt at Paradise plant there is like we
- discussed, a plus such that the river is where 17
- the river is, the rapids are where the rapids 18
- are and you need to build a plant there and 19
- you'll build some transmission out to hook it 20 21
 - in. Based on that, in a--looking at the
- system planning, it's probably reasonable to 22
- say regardless of the loads down on the Burin 23
 - Peninsula, somebody would have built Paradise
- River and would have hooked in with a 25
- - follow for the rest of the Burin. 1
 - 2 Q. On that logic then, though, sir, would you not
 - agree that perhaps the line from Rose Blanche 3
 - should be included, because that connects a 4
 - 5 hydroelectric project from where it is to the
 - grid? 6
 - 7 MR. BOWMAN:
 - A. Well, like I said, I haven't spent as much
 - 9 time looking at it because I understood it was
 - uncontested. Hydro came to the same 10
 - conclusion. It's been that way--that was the 11
 - 12 MR. BOWMAN:

 - 13 conclusion in 2001, that was their conclusion
 - in 2003. We haven't specifically spent time
 - reviewing that. 15
 - 16 KELLY, O.C.:

14

- 17 Q. So is the thrust of your position that only
- what connects a plant that is in somehow of 18
- 19 benefit to the Industrial Customers is what
- should be included in your cost? 20
- 21 MR. BOWMAN:
- 22 A. Just so I'm sure, can you repeat the question?
- Q. In other words, is it your position that only 23
- a transmission line that somehow connects a 24
 - plant, and I guess I would have to say from

	Page 221		Page 222
1	what I understand your position to be that	1	a couple of radial systems that's relative
2	would have to be a major plant of some	2	small, radial systems that spin off of that, a
3	description, that only a transmission line	3	few of which have generation at the other end.
4	that connects a major plant should be	4	I don't think there's anybody asserting that a
5	allocated any cost to the Industrial	5	
6	Customers?	6	
7	MR. BOWMAN:	7	system that's here. It's a key part of the
8	A. I think it's athat's essentially the	8	backbone 230 kV system and we don't debate
9	conclusion that only a transmission line that	9	
10	connects a plant that's providing benefits to	10	Q. And the point out of putting that example to
11	the Island Industrial Customers and the Island	11	you, though, sir, is essentially this, that
12	Interconnected Customers should be paid for by	12	·
13	the Island Industrial Customers. That's the	13	* *
14	whole principal of the Cost of Service and	14	_
15	that's the whole principal of that's set out	15	of it and strip off this little line because
16	in the Power Control Act, is that you	16	-
17	shouldn't pay for service to Rural Customers.	17	at the transmission system as more of an
18	Q. Well, let's take that logic one step further.	18	integrated whole than you've allowed?
19	What about the line that comes from Holyrood		MR. BOWMAN:
20	into St. John's? There's not an electron that	20	A. I would say it's actually -
21	flows back from St. John's to Corner Brook.	21	Q. I put that proposition to you.
22	MR. BOWMAN:		MR. BOWMAN:
23	A. What we're talking about in terms of all of	23	A. I would say it's actually the contrary, that
24	this stuff is whether there's a backbone	24	in terms of looking at the assets, the purpose
25	transmission grid of 230 kV lines and there's	25	of the Cost of Service Study and especially
	Page 223		Page 224
1	_		6
	the Cost of Service Study in this jurisdiction	1	down there, not so that it interconnects some
	the Cost of Service Study in this jurisdiction where Industrial Customers are not to pay the	1 2	down there, not so that it interconnects some great turbine that's out there, but to serve a
2	where Industrial Customers are not to pay the	2	great turbine that's out there, but to serve a
2 3	where Industrial Customers are not to pay the costs of serving Rural Customers is that those		great turbine that's out there, but to serve a bunch of customers down there is part of the
2 3 4	where Industrial Customers are not to pay the costs of serving Rural Customers is that those assets that are benefiting an Interconnected	2 3 4	great turbine that's out there, but to serve a bunch of customers down there is part of the cost of providing service to those customers.
2 3 4 5	where Industrial Customers are not to pay the costs of serving Rural Customers is that those assets that are benefiting an Interconnected System are those that should be assigned as	2 3 4 5	great turbine that's out there, but to serve a bunch of customers down there is part of the cost of providing service to those customers. It's not part of the cost of providing service
2 3 4 5 6	where Industrial Customers are not to pay the costs of serving Rural Customers is that those assets that are benefiting an Interconnected System are those that should be assigned as common, those assets that only provide benefit	2 3 4 5 6	great turbine that's out there, but to serve a bunch of customers down there is part of the cost of providing service to those customers. It's not part of the cost of providing service to the customers who are on the 30 kV backbone
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	where Industrial Customers are not to pay the costs of serving Rural Customers is that those assets that are benefiting an Interconnected System are those that should be assigned as common, those assets that only provide benefit to other customers, and were they not in service, the other customers would be no worse off shouldn't be charged to them. So if you look at the GNP system in total, whether it's transmission or generation, the remainder of the system, whether that's Newfoundland Power or whether that's Industrial Customers would be further ahead if the GNP weren't built in terms of reliability. There's no basis to go charging them costs as a result of building a system that lowers their reliability. That normally flies in the fact of cost allocation, but in this particular jurisdiction it's also inconsistent with the way that the legislation is set out. The same logic applies to the Burin, that a transmission line that is only	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	great turbine that's out there, but to serve a bunch of customers down there is part of the cost of providing service to those customers. It's not part of the cost of providing service to the customers who are on the 30 kV backbone grid. It's the exact same logic. Q. On the Burin line, you'll agree with me that those lines connect at Salt Pond, Lines 212 and 219? MR. BOWMAN: A. My understanding is that the two lines that Hydro owns don't actually connect. There's a Newfoundland Power system that connects the two. I understand that it's down at the southern, I don't know the specific geography. KELLY, Q.C.: Q. Well, let's put up Mr. Martin's Schedule 2 diagram and go down to the very bottom. You see there's a connection that goes down there from Linton Lake to Salt Pond which is a very short Newfoundland Power line and the two
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	where Industrial Customers are not to pay the costs of serving Rural Customers is that those assets that are benefiting an Interconnected System are those that should be assigned as common, those assets that only provide benefit to other customers, and were they not in service, the other customers would be no worse off shouldn't be charged to them. So if you look at the GNP system in total, whether it's transmission or generation, the remainder of the system, whether that's Newfoundland Power or whether that's Industrial Customers would be further ahead if the GNP weren't built in terms of reliability. There's no basis to go charging them costs as a result of building a system that lowers their reliability. That normally flies in the fact of cost allocation, but in this particular jurisdiction it's also inconsistent with the way that the legislation is set out. The same logic applies to the Burin, that a transmission line that is only-a transmission system that's basically only	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	great turbine that's out there, but to serve a bunch of customers down there is part of the cost of providing service to those customers. It's not part of the cost of providing service to the customers who are on the 30 kV backbone grid. It's the exact same logic. Q. On the Burin line, you'll agree with me that those lines connect at Salt Pond, Lines 212 and 219? MR. BOWMAN: A. My understanding is that the two lines that Hydro owns don't actually connect. There's a Newfoundland Power system that connects the two. I understand that it's down at the southern, I don't know the specific geography. KELLY, Q.C.: Q. Well, let's put up Mr. Martin's Schedule 2 diagram and go down to the very bottom. You see there's a connection that goes down there from Linton Lake to Salt Pond which is a very short Newfoundland Power line and the two lines are effectively looped at Salt Pond?

Page 225 Page 226 A. That fits with my understanding, yes. the customers down in Newfoundland Power 1 1 Q. All right. So, if Line 212, for example, is 2 2 service area and back up 219 such that some out for maintenance as Mr. Haynes described, kilowatt hour may potentially make it onto the 3 3 Paradise River and the other units down there grid, if it's under light load conditions. 4 4 are still served through 219 and vice versa. Q. And I'll leave that at that one. So, we have 5 5 6 MR. BOWMAN: a looped system on the Burin Peninsula that 6 A. They remain connect to the grid via 219, oh, I provides for one line to be capable of being 7 7 would say with Paradise River, it's not a taken out for maintenance. Agreed? 8 8 question of whether 212 is down. 212 is the 9 MR. BOWMAN: 10 line that flows in both directions in Paradise 10 A. Not necessarily because I don't--212 has two River. It's only if a fault or somehow if different portions to it, only one portion is 11 11 that even happens on a segregated portion of relevant to connecting Paradise River to the 12 12 212 between Paradise River and what's listed grid. For the purposes of what we're talking 13 13 here as Sunnyside, but from Paradise River about here, we're saying 212 in total doesn't 14 14 being, I guess, the first square block here, have a huge amount of cost associated with it. 15 15 16 it's a separate map -16 There's not a lot of reason to want to cut it Q. Yes. half or a third or whatever. So, but for 17 17 goodness sakes, in terms of the generation 18 MR. BOWMAN: 18 that's there, in terms of everything, even if A. - shows Paradise River, I understand, at that 19 location. So, if for some reason, the short you assign 212 the common which is not the end 20 20 portion of 212 connecting Paradise River to of the world, there's simply no basis for 21 21 the grid were down, I would say it's my talking about 219, even once you talk about 22 22 understanding, but we followed this up in the looped argument. Redundancy to hooking an 23 23 great detail that, in theory, the Paradise eight megawatt hydro plant at Paradise River 24 24 River power could flow south through 212, past is not determinative that that asset is 25 25 Page 227 Page 228 beneficial to common or that is was built for the same issue as the GNP from 2001. 1 1 2 that purpose. Granite Canal was built, hooked 2 Q. Let's turn next and have a quick discussion 3 in by a single line, so obviously redundant 3 of--it's 3:00, Chair, did you want to break at transmission lines is not necessary. this stage 4 4 5 Q. Doesn't just hook in Paradise River, it hooks 5 CHAIRMAN: in all of the generating capacity on the Burin Q. I think so, yes. 6 6 Peninsula which totals 24.7, we just saw. 7 7 KELLY, Q.C.: O. That will be fine. 8 MR. BOWMAN: A. Yeah, well, it totals 34.7, but the peak out 9 CHAIRMAN: there is 58.7. So, it's--in terms of talking Q. Mr. Kelly, do you have any idea of how much 10 about peak time of the year, it's not longer you might be? 11 11 providing--it's the same argument as the GNP. 12 KELLY, Q.C.: 12 We're not talking about a straight kilowatt Q. I'll perhaps, certainly no more than about 13 13 hour coming off at some time of the year when half an hour, Chair. 14 14 it doesn't really matter. At the time of the 15 15 CHAIRMAN: year when it matters, should that short Q. Okay. Mr. Kennedy, do you have any idea? 16 portion of 212 be out and should, for some 17 17 MR. KENNEDY: reason, the rest of the system be up and Q. I don't think I'll be long at all, Chair. 18 19 running the power could flow back that way. 19 CHAIRMAN: At the time of year that it really matters, it Q. So, it's a possibility that we may conclude 20 20 still isn't determinative because power will this afternoon or at least early in the 21 21 still be flowing down the line, not up it. morning, in any event, certainly. Okay, 22 22 It's not contributing to the grid. It's still thanks very much, 3:15 please. 23 23 a net draw power off the grid, whether that 24 24 (BREAK AT 3:00 P.M.) surplus of line is on or off. We're back to

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(RECONVENE AT 3:18 P.M.)

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1 CHAIRMAN:	1	evaluated in regards, or in comparison to the
2 Q. When you're ready, Mr. Kelly, please, you	ı can 2	Interruptible, or the incremental costs of
3 continue.	3	demand on the system. And the answer appears
4 KELLY, Q.C.:	4	to be no, we didn'twe're not looking at the
5 Q. Thank you, Chair. Mr. Osler, Mr. Bow.	man, 5	comparison of costs versus the rate that's
6 there was an RFI that I was going to take y	ou 6	being paid. I don't know if that answers your
7 to when we were talking about the curtaila	ble 7	question, but that's -
8 Interruptible B. I'll just put that one up	8 0). But in order to determine that cost, we would
9 for you now, NP 179. And the answer at lin	ne 9	then have to do all the analysis and studies
six or seven was that Hydro does not requ	ire 10	that we've talked about earlier in our
11 the capacity contracted for under the	11	discussion, correct?
12 Interruptible B. And that ties back to the	12 MR.	OSLER:
discussion we had earlier about what need	l to 13 A	A. I think what this confirms is they didn't do
be done to determine the real value of	14	what we were talking about earlier. They
15 Interruptible B. I put that up for you just	15	simply looked at the snapshot in time and
to give you the opportunity to make an	n 16	said, hey, we don't need it today and they
additional comments you wanted because	I said 17	didn't go into all the issues you and I were
18 I would.	18	talking about earlier.
19 MR. BOWMAN:	19 Ç	2. Exactly, okay. Let's turn to a different area
20 A. I'm noting the question that was asked the	re. 20	and this deals with the whole of load
21 It's more in regards to the incremental cos	ts 21	forecasting. Now, there's a issue that's
on the system.	22	raised in your testimony about the 2002 load
23 Q. Right.	23	forecast. I won't take you to the precise
24 MR. BOWMAN:	24	page, but you get into this discussion about
25 A. And whether Interruptible B was some	ehow 25	whether there was five million allocated one
	Page 231	Page 232
way or the other. Do you remember th	_	higher than they had forecasted. We have
2 discussion?	2	expressed concerns about the forecast at the
3 MR. OSLER:	3	last time and, I believe, the Industrial
4 A. Um-hm.	4	Customers had some argument on that topic.
5 Q. Yes? Okay. And I take it that arises becau	ise 5	We're not trying to get into subdividing the
6 there were variations in both Newfoundl	and 6	specific impacts. We're just saying it's
7 Power's forecast from actual and IC's forec	east 7	based on seeing that type of thing evolved
8 from actuals in 2002, correct?	8	from 2002. We had underlined the extent to
9 MR. BOWMAN:	9	which one would want to be careful and
10 A. Well, in terms of looking at this, it's	10	reflective and use some form of principled
probably helpful to note, there was an	11	approach to looking at what Newfoundland
interrogatory filed that showed the 200		BOWMAN:
actual Cost of Service Study and we we	ere 13	Power's peak may be in 2004.
struck and our clients were struck by the	e 14 KEL	LLY, Q.C.:
revenue cost coverage ratio in there in the	e 15 Q). And I accept your evidence in chief that
indication that the measured cost to serv		you're not trying to do anything retroactive
17 Industrial Customers was five million doll		that you agree rate making is prospective, but
lower than what they actually paid. It raise		if we look at the 2002 experience, can I
the question as to what's going on, but we		suggest to you that there were two factors
talking about a 2004 test year. So, it wasn'		and let's just look at the numbers first. The
an exercise to go in and say, let's figure ou		demand for Newfoundland Power had been
everything about it. And let's just say, you		forecast at 1085 megawatts and came in at
know, in terms of big picture items, the or		956.6 for a difference of 128.4 or 13 percent
that was clearly a big picture item was Newfoundland Power peak came in consi	derably 24	in the variance. And I can take you to direct precise numbers if you want, but we'll do it

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1	fairly quickly. Okay. But at the same time,	1	much time with that, except that noting to
2	the Industrial Customers who had forecast	2	what extent Hydro seems to be optimistic
3	168.5, in fact, came in at only 150.3 or down	3	versus pessimistic in terms of their long term
4	18.2 which is 10.8 percent. So, in fact, the	4	load forecast, compared to actuals, but I
5	Industrial Customers were off, low 10 percent	5	haven't spent a lot of time with that, no.
6	while Newfoundland Power's, in that year,	6	Q. Okay. And would this proposition be right, if
7	happened to be up by 13 percent. So, it	7	Newfoundland Power estimates low on a
8	wasn't just one factor, it was a combination	8	consistent basis and the actual were more,
9	of two factors, wasn't it?	9	then that would tend to allocated costs to the
10	MR. BOWMAN:	10	Industrial Customers or shift costs to the
11	A. Well, like I said, we didn't get into the	11	Industrial Customers? In other words, we had
12	specific factors and their relative	12	that in a test year, we came in, we were low
13	contribution, but I'll take it that what you	13	and the actuals came in high. That would tend
14	just said, which are set out are correct and	14	to then shift costs, wouldn't it, to you?
15	I'm not surprised, I guess, in hearing that.	15 M	R. BOWMAN:
16	Q. Now, have you looked at any kind of historical	16	A. Well, all other things being equal -
17	analysis of the variations in the load	17	Q. Exactly.
18	forecast over the last number of years?	18 M	R. BOWMAN:
19	MR. BOWMAN:	19	A Newfoundland Power's peak being lower than,
20	A. You say variations, in regards to variations	20	being reduced for somewhat, for some factor,
21	of load forecast versus actual.	21	or being a downward adjustment in Newfoundland
22	Q. The forecast from actuals.	22	Power's peak, would result in a decrease in
23	MR. BOWMAN:	23	cost being assigned to Newfoundland Power and
24	A. I've seen some information filed in regards to	24	an increasing cost being assigned to
25	a number of the RFIs. I don't recall spending	25	Industrial Customers and rural customers.
	Page 235		Page 236
1	That's just a simple relationship that comes	1	submit two separate forecasts to Hydro. They
2	out of the Cost of Service.	2	submit a power and order request to Hydro
3	Q. Exactly, but the corollary would also be true	3	which sets out not only their forecast for the
4	too, wouldn't it? If the Industrial Customers	4	purposes of Cost of Service, it also sets out,
5	estimated low, that would have a tendency to	5	effectively, their entitlement to guaranteed,
6	shift costs to Newfoundland Power's customers?	6	firm supply of power -
7	MR. BOWMAN:	7	Q. But in a test year -
8	A. Again, I'm noting that it's a number that goes	8 M	R. BOWMAN:
9	in the Cost of Service, not necessarily the	9	A. And they pay for it.
10	customers estimate, being high or low, because	10	Q. In a test year, if Industrials estimate low
11	that is the extent to which Hydro takes that	11	and come in high, that will shift costs to
12	estimate then and feeds it into the Cost of	12 KI	ELLY, Q.C.:
13	Service. And it's only at a rate setting	13	Newfoundland Power's customers. And so, the
14	time, 1992, 2002 and 2004 that this type of	14	point that you raise well, we should look at
15	thing that we're talking about is relevant.	15	this in terms of long term viewing. That's
16	If Industrial Customers had a lower peak	16	what's happening in the long term, correct?
17	inserted for the group of customers at, in a	17	That's the point that you were making?
18	test year, all other things being equal, they	18 M	R. BOWMAN:
19	would be assigned a lower proportion of the	19	A. The point, I guess the point we were making is
20	demand costs. The difference though with	20	that, if you're going to look at the forecasts
21	Industrial Customers is as time goes forward,	21	that are used in the Cost of Service Study,
22	that peak that is used for Industrial	22	you need to look at some form of principled
23	Customers is also determinative of the rates	23	pragmatic basis to say yes, these forecasts
24	that they will pay and their availability to	24	are defensible. In the case of the Industrial
25	access power. Industrial Customers don't	25	Customers, we have that because they're

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	submitting a power and order and they're	1	the absolute numbers. Corner Brook Pulp and
l	willing to pay for it. In the case of	2	Paper is over, Abitibi is over, Abitibi
	3 Newfoundland Power, we don't have that.	3	Consolidated in Stephenville is pretty much
	4 That's the distinction we're putting up, is	4	on, et cetera. So, in that particular year,
	5 that in terms of our principle basis,	5	both Newfoundland Power and Industrials were
	6 Industrial Customers submit a forecast,	6	generally over.
	7 they're going to pay for it. They have no	7 MI	R. BOWMAN:
	8 incentive to put it higher or lower and they	8	A. The mathematical relationship you describe is
l	9 have real repercussions of missing their	9	shown there, yeah.
1	10 forecast.	10	Q. Okay. We go to the next one and this one,
1	In Newfoundland Power's case, there is a	11	Newfoundland Power is down, but in fact,
1	suggestion that mathematically, they would be	12	Corner Brook Pulp and Paper and Abitibi
1	better off setting it lower and there are no	13	Consolidated, both Grand Falls and
1	repercussions that arise from that.	14	Stephenville are over, correct?
1	Q. Let's have a look at IC 155 and just have a	15 MI	R. BOWMAN:
1	quick look at the historical experience. And	16	A. Again, the math is there, yeah.
1	if we go to, at page 2 of 9, we have the 1994	17	Q. Okay. Go to the next one, 1996, in this one
1	year and if we go over to the variance column	18	we're up, but Corner Brook Pulp and Paper,
1	under megawatts, we have Newfoundland Pow	rer, 19	Abitibi still up again. And we go to '97, in
12	in this particular year, ended up 14. 5	20	this one we're pretty much on target, 3.3, but
12	21 megawatts over on estimate. Whereas, if you	21	Corner Brook, Abitibi, Grand Falls
12	come down through the table, you had Corner	22	Stephenville is down a bitbut Corner Brook,
2	Brook Pulp and Paper over by 4.2 and if you	23	Grand Falls, up again. We'll go to '98, in
1	compare it back to the actuals, you can work	24	this one, we're up, but Corner Brook is up
2	out the percentages, you can't just look at	25	significantly, Stephenville is up, on average,
	I	Page 239	Page 240
	Industrials are up. Go to '99, we're down i		Industrials tend to be up more than they're
	this one, Corner Brook is down slightly, Gr	rand 2	down.
	Falls down in this one. So, this is a year		R. BOWMAN:
	everybody seems to be down. Go to 200	00, 4	A. Again, I can't do the statistics in my head or
	5 Newfoundland Power is down, small char	_	anything, but in this case, we're seeing
	6 Corner Brook Pulp and Paper, relatively	·	Industrial Customers who are having a peak
	7 neutral across that one. Go to the next one.		that, in some cases, is higher and in some
	8 Newfoundland Power is down, Corner Br		cases are lower. I don't know what sort of
	9 up, Abitibi Consolidated is up and that's th		systematic variation from what's forecast.
1	last one; 2002, we talked about. And I	10	I'm just going to caution that I don't know
1	suggest to you there is certainly no pattern		whether the Fall 2000 forecast here is the
1	in Newfoundland Power's forecast be it eit		R. BOWMAN:
1	high or low.	13	same thing as the Industrial Customers
1	14 MR. BOWMAN:	14	submission of power and order for that year
1	15 A. I can't do statistics on that,	15	which is the one that really matters because
1	(unintelligible) in my head, if we look	16	when they put that number in, they're going to
1	through it, it seems to be that in some cases when you look at the Fall forecast that Hyd		pay for it. The other thing just the other thing
1	when you look at the Fall forecast that Hyd has filed here, presumably reflecting wha		The other thing, just the other thing that I note is that we're talking about a
1			_
1	Newfoundland Power provides them, but I know that for sure. There are some cases the surface of the surface in the surface ind		bunch of years that weren't subject to rate hearings. The point is that there is not
1	variance is up and there are some cases th		incentive to, in either way or no impact in
1	variance is up and there are some cases in variance is down.	$\begin{vmatrix} 22 \\ 23 \end{vmatrix}$	either way, in terms of Newfoundland Power in
1	Q. And, in fact, if one were to try to find any	23	any regard in reference to these forecasts.
1	2. Tind, in fact, if one were to try to find any	24	To a second in reference to these forecasts.

It's only in the year of a rate hearing that

25

pattern, one might say that, on average, the

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1 it really matters.	1 MR. BOWMAN:
2 KELLY, Q.C.:	2 A. Newfoundland Power's demand is presumably the
3 Q. Okay. So, you haven't done any analysis on	3 sum of the (unintelligible) and peak demands
4 any kind of historical basis to see what the	4 imposed by the customers, plus losses, plus
5 variations over the years have been? That's	5 whatever they use themselves, so that's what
6 the bottom line.	6 you mean by derived, I guess I agree with
7 MR. BOWMAN:	7 that.
8 A. Well, that's correct. Our assessment isn't	8 Q. Okay, in other words, they're not primarily
9 based on saying the Newfoundland Power is good	9 the end user in themselves, it's their
or bad at forecasting. Our assessment is	10 customers who are the end users of the
based on saying, given how sensitive cost	electricity?
allocation is to this issue, there should be	12 MR. BOWMAN:
something, principles in there and defensible	13 A. No, that's correct.
in terms of the evidence that's here, that the	14 Q. Now, can I take you to your testimony at page
Board can look at and say, yes, as a result of	45 and you discuss here briefly the demand
that, we think this is a reasonable peak to	energy issue and I took it from all of your
insert for Newfoundland Power. That's just a	evidence that other than looking at what was
18 point.	filed in RDG No. 2, you haven't really done
19 Q. And we have no problem with the Board looking	much more than that in terms of any kind of
20 at our forecasts. Now, let me just take you	20 analysis, is that fair?
21 to a couple of other points that kind of flow	21 MR. BOWMAN:
from that. Newfoundland Power's demand is a	22 A. The core of our concern was given that this
derived demand. It's a demand derived from	information is filed and there's a number of
their customers, would you agree with that	pieces that relate to the Newfoundland Power
25 proposition?	Cost of Service and rates that are relevant to
Page 243	Page 244
Page 243 1 Industrial Customers were reviewed from that	Page 244 these Industrial rates are appropriate and
Page 243 Industrial Customers were reviewed from that perspective, but there is some problems that a	Page 244 these Industrial rates are appropriate and track valid incremental costs on the system, a
Page 243 Industrial Customers were reviewed from that perspective, but there is some problems that a two-part rate seems to solve. We weren't	Page 244 these Industrial rates are appropriate and track valid incremental costs on the system, a similar rate structure seems appropriate for
Page 243 Industrial Customers were reviewed from that perspective, but there is some problems that a two-part rate seems to solve. We weren't specifically looking at it from is it	Page 244 these Industrial rates are appropriate and track valid incremental costs on the system, a similar rate structure seems appropriate for Newfoundland Power." Now incremental costs
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Page 243 Industrial Customers were reviewed from that perspective, but there is some problems that a two-part rate seems to solve. We weren't specifically looking at it from is it necessarily the exact correct thing to do when, between Hydro and Newfoundland Power to have a demand energy rate, that wasn't the	Page 244 these Industrial rates are appropriate and track valid incremental costs on the system, a similar rate structure seems appropriate for Newfoundland Power." Now incremental costs are the type of costs that we looked at in the discussion we had earlier, aren't they? In other words, they're the long-run future costs
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1101	Veinber 13, 2003 Winter	i-i age	112 Hydro 8 2003 General Rate Application
	Page 245		Page 246
1	A. Well there are two aspects to it, one isI	1	or incremental costs, correct?
2	just want to be clear that when we talk about	2 MR.	BOWMAN:
3	a price signal, a very short-term price	3 A	. When you're talking about designing rates that
4	signal, wouldmay be more based on the do	4	are intended to target efficiency which I'd be
5	rates track cost and fairly allocate costs	5	even very cautious about at this point, you
6	across customers, not only for the exact load	6	would want to look at sort of long-run
7	forecast that's in the filing, but as	7	marginal type costs in designing those. But
8	variations occur outside of that load	8	as noted in, you know, when we were here in
9	forecast. People will also talk about price	9	2001, I believe Mr. Brockman brought this up
10	signals in terms of sort of economic	10	at that time efficiency is one of a number of
11	efficiency type arguments, that's not where	11	factors that people balance off in terms of
12	the core of what we're saying here, we're just	12	designing rates or in terms of doing cost of
13	saying in terms of variations to the extent	13	service. In this case, this jurisdiction has
14	that we talk about Industrial rates having	14	a certain framework that's based on embedded
15	demand components and energy components, so	15	costs and average cost pricing within the
16	that to the extent that their loads vary on	16	embedded Cost of Service Study. It's not
17	each of those factors. Their costs vary on	17	based on a marginal cost type of rate setting
18	each of those factors. If that's appropriate,	18	or something that's more reflective of
19	then, you know, just by simply logical	19	marginal costs, or marginal pricing or
20	extension, it would seem to be appropriate for	20	something like that.
21	Newfoundland Power.	21 MR.	OSLER:
22 ((3:35 p.m.)	22 A	. But to be, just to be helpful, when we're
23	Q. So if we are going to talk about efficiency	23	looking at demand costs and capacity costs,
24	factors, then the type of costs that we need	24	typically you're looking at embedded historic
25	to look at are future costs which are marginal	25	cost or you're looking at the cost in the
	Page 247		Page 248
1	future to build some more. You're typically	1	evaluated on a marginal cost basis?
2	not looking at a cost that increases up and	2 MR.	OSLER:
3	down as you turn on and off the switch,	3 A	. DSM should be looked at, I mean, I'm nervous
4	because it's literally the capacity cost of	4	just with using these terms, they can mean all
5	the system.	5	sorts of different things to different people.
6	Q. Right.	6	DSM is typically and properly evaluated
7 1	MR. OSLER:	7	looking at the effects it has on the future
8	A. So you're either dealing with embedded or	8	cost to the system.
9	you're dealing with the future, you're	9 Q	. Okay, all right. Now, Mr. Greneman, I can
10	certainly not dealing with something like oil	10	take you to this passage, if you like, perhaps
11	that gets burned or not gets burned as you	11	that's a good thing to do. If we go to his
12	turn off and on the switch.	12 KEL	LY, Q.C.:
13	Q. Exactly correct, and in fact, if I just follow	13	report and it's at page 10sorry, it's in RDG
14	that discussion with you, Mr. Osler, please,	14	No. 2, Mr. O'Reilly, my apologies. There we
15	the past costs are obviously ones that are in	15	go, at page 10. Could you just scroll back up
16	the past. If what you're trying to determine	16	to the top there? There we go, it's the third
17	is, well what is the appropriate cost for	17	line down, Mr. Osler. "Typically the largest
18	spending on DSM versus spending on new	18	load management opportunities are derived from
19	capacity, what we need to know is that	19	commercial and industrial facilities, rather
1	in an annual and in the fature assumed?	20	than residential facilities and in several US
20	incremental cost in the future, correct?		
1	MR. OSLER:	21	jurisdictions, demand rates have resulted in
1			jurisdictions, demand rates have resulted in significant load shapes shifted when targeted
21 N	MR. OSLER:	21	
21 M 22	MR. OSLER: A. Correct.	21 22	significant load shapes shifted when targeted
21 M 22 23	MR. OSLER: A. Correct. Q. Right, and that, if we're going to target	21 22 23	significant load shapes shifted when targeted at large users." Now, we talked about the

Page 249	Page 250
opportunities exist at the commercial and	isn't sending as much money is just
2 industrial level?	2 collaborating and coming up with expertise and
3 MR. OSLER:	3 exchange of information so that people in fact
4 A. Well, I haven't come with my mind focused on	4 end up saving money. But the cost savings for
5 that, so I may well miss all sorts of things,	5 the customer are big enough that they're not
6 but as distinct from interruptible type of	6 even looking to the utility to help fund a
7 rate structure and load management types of	7 portion, they're just happy they got a basis
8 approaches, there are also the efficiencies	8 for arguing it internally with management and
9 that come from programs designed to reduce	getting it done. Because the problem is,
lighting or to make lighting more efficient,	historically there are costs to be saved,
to make motors more efficient, to have	people can make that analysis, but there are
processes more efficiently using electricity,	many, many of these commercial and even
so that utilities frequently spend a lot of	industrial operations without commenting on
time and money with some of their largest	the ones here. It doesn't intuitively hit
customers to mutually assist each other in	management that these are the big cost savers
coming to things that save the customer costs	that are going to make people's careers or
and save the system costs; therefore, all the	make a big difference, so the learning curve
other customer's costs. And the shopping list	is important.
can be relatively long. I sat in on a meeting	19 Q. Let me ask you a couple of questions derived
recently in Manitoba where the vice-president	out of that then, if we are concerned about
in charge of this type of thing was describing	capacity on the system, have you, as an
how they have evolved over a decade and how	advisor to the Industrial Customers, advised
much more of it is cooperative today than it	them about opportunities for such programs?
was ten years ago, and how very often, because	24 MR. OSLER:
of the way in which people have evolved, what	25 A. The advise that I've had has been very focused
Page 251	•
on rate hearings.	reviewed our RFIs in this filing which suggest
2 Q. Would the answer be because you haven't been	that the DSM activities, as Hydro classifies
3 asked?	them, at this time go basically, exclusively
4 MR. OSLER:	to their HYDROWISE Program.
5 A. It could be, but I don't think it would come	5 Q. That was going to be my next question, Mr.
6 up in the context of getting ready for a Hydro	6 Bowman, you're anticipating, thank you very
7 rate hearing where the issue of demand side	
Tate hearing where the issue of demand side	
8 management programs isn't even on the table	7 much. So from that answer, would it be fair
8 management programs isn't even on the table. 9 O Do you know whether Hydro in fact has had any	much. So from that answer, would it be fair to say that Hydro has not looked at spending
9 Q. Do you know whether Hydro in fact has had any	much. So from that answer, would it be fair to say that Hydro has not looked at spending money on those type of programs with
9 Q. Do you know whether Hydro in fact has had any of those type of discussions with the	much. So from that answer, would it be fair to say that Hydro has not looked at spending money on those type of programs with Industrial Customers?
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9 Q. Do you know whether Hydro in fact has had any 10 of those type of discussions with the 11 Industrial Customers? 12 MR. OSLER:	much. So from that answer, would it be fair to say that Hydro has not looked at spending money on those type of programs with Industrial Customers? If MR. BOWMAN: A. I was being careful of saying that's the way
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A. The one thing I would just note that we have

	venibel 15, 2005		age 112 Hydro 5 2000 General Rate Hyprication
	Page 253		Page 254
1	marginal cost principle, whether that's the	1	not things that we are flagging or things that
2	Industrial Customers or any other residential,	2	we spent a lot of time analyzing.
3	for example, DSM program. Would you agree	3	Q. And that's my question, have you, as the
4	with that?	4	4 Industrial Customer's expert, have you looked
5	MR. OSLER:	5	
6	A. Yes, I mean, load management in the way I	6	6 MR. BOWMAN:
7	would use the words is part of the broad	7	
8	demand side management approach. I know some	8	
9	don't think of it that way, butand they	9	
10	should be evaluated using similar	10	
11	perspectives.	11	
12	Q. Okay, let me just ask you one last series of		2 MR. BOWMAN:
13	questions. If we go to your report at page	13	
1			
14	45, under the "Revenue Stability" section	14	
15	there, there is a reference at lines 21	15	•
16	through 23 about volatility will be introduced		6 MR. BOWMAN:
17	into Hydro's revenues. The first question is	17	\mathcal{E}
18	have you looked at the extent of volatility in	18	e e
19	Hydro's revenues? Have you done any analysis	19	•
20	of that?	20	· · · · · · · · · · · · · · · · · · ·
1	MR. BOWMAN:	21	6 6
22	A. In terms of the point that's listed here,	22	A
23	again, I would note that these are listing a	23	things have now been basically addressed, from
24	number of items that are raised in Exhibit RDG	24	•
25	2 and just simply comment on them. They are	25	5 Q. My question goes to the first of the points in
			9 Q. 1413 question goes to the first of the points in
	Page 255		Page 256
1	Page 255 terms of rate stability to Newfoundland	1	Page 256
1 2	terms of rate stability to Newfoundland	-	Page 256
	•	-	Page 256 1 A. None. 2 CHAIRMAN:
2	terms of rate stability to Newfoundland Power's customers, have you done any analysis	2	Page 256 1 A. None. 2 CHAIRMAN: 3 Q. Okay, thank you very much. Any re-direct Mr.
2 3 4	terms of rate stability to Newfoundland Power's customers, have you done any analysis of the impact on Newfoundland Power's customers?	2 3 4	Page 256 1 A. None. 2 CHAIRMAN: 3 Q. Okay, thank you very much. Any re-direct Mr. 4 Hutchings please?
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110	7 cm Jet 13, 2005 William		age 14L Hydro's 2003 General Rate Application
	Page 257		Page 258
1	Customers and increasing the cost assigned to	1	go above that, to the extent that it's
2	Newfoundland Power. It was just that simple	2	available, with no guarantees, they move into
3	of a mathematical relationship.	3	1 /
4	Q. Yes, okay, and that was a test year effect	4	higher incremental rate, but as long as it's
5	which would have an impact on the rate that	5	on a very low load factor type of load, like
6	would be derived out of the cost of service	6	the odd excursion to meet a very short-term
7	study in that test year?	7	peak, it's a more efficient use of their power
8 1	MR. BOWMAN:	8	\mathcal{E} 1
9	A. Yes, it's only a test year effect.	9	order higher. So there's a balancing in there
10	Q. Okay. In terms of the actual dollars that	10	from the perspective of Industrial Customers
11	Industrial Customers would pay out, would	11	setting the power on order high enough that it
12	there be any saving to Industrial customers by	12	gets them: a. all the power they need at firm
13	underestimating their actual loads for the	13	rates and that's guaranteed supply, and that
14	purpose of the forecast?	14	they're willing to pay for because they paid
15	MR. BOWMAN:	15	for the power on order regardless of what
16	A. We spent some time in the evidence going	16	their peak is. But low enough that it's not
17	through the particular Industrial Customer	17	designed to catch these very small load
18	rate form, as it's talked about in here, and	18	excursion which are more properly served under
19	there's a number of different components of	19	a non-firm, non-guaranteed power at very low
20	service to Industrial Customers under which	20	load factors. Within that balancing, they'll
21	they're billed. There's the base component,	21	submit to Hydro a power on order request. My
22	which is defined by the power on order as the	22	2 understanding is that power on order request
23	maximum number of megawatts under which they	23	is what, in all cases, eventually feeds into
24	can receive firm energy and firm supply for a	24	the cost of service study. So there's not an
25	certain number of megawatts of power. If they	25	incentive to set it too low or set it too high
	Page 259		Page 260
1	or else they run across problems on that power	1	
2	on order and their access to power at a	2	
3	reasonable rate or at all.	3	- · · · · · · · · · · · · · · · · · · ·
4]	MR. OSLER:	4	
5	A. Just make one point. The peak, if you have a	5	
6	non-firm power demand, which is what he's just	6	
7	talking about, it does not contribute to the	7	
8	peak. It does not contribute to the cost of	8	
9	service allocation, just keep that in mind.	9	
10	So by definition, an excursion beyond what	10	way, all that power taken above 50 megawatts
11	you're entitled to is not an excursion that	11	
12	should be counted when doing a test year		2 MR. BOWMAN:
13	assessment of firm order, for capacity	13	flow-through 100 percent cost recovery to
14	purposes.	14	
15	Q. On the Industrial Customers' side, if the	15	
16	amount of power, amount of capacity, megawatts	16	
17	used, exceeds that in the forecast, the	17	
18	Industrial Customers pay for that excess	18	•
19	demand, correct?	19	
20 1	MR. BOWMAN:	20	0 CHAIRMAN:
21	A. It might help if we usesort of set out some	21	Q. Thank you, Mr. Hutchings. We'll move now to
22	simple numbers for it, but an individual	22	•
23	Industrial Customer sets out a power on order		3 COMMISSIONER SAUNDERS:
24	of say 50 megawatts and then on their actual	24	4 Q. Just a couple, Mr. Chair. On the
25	usage, they make it up to 55 megawatts, that	25	-
Ь		1	

		I - I	age TVL Hydro's 2003 General Rate Application
	Page 261		Page 262
1	considerable amount of evidence and discussion	1	do in relation to that contract or to that DSM
2	and to some extent, it's confusing to me at	2	possibility, if you like? And under what
3	least. As I understand it, the Interruptible	3	section of the Act are you asking us to act
4	B contract that existed between Hydro and	4	here? You know, Hydro has not made any
5	Abitibi Stephenville is no more. Is that your	5	application to have that revived in any way.
6	understanding? I guess, Mr. Kelly, you made	6	There's nothing in Hydro's application about
7	reference, towards the end of your cross-	7	
8	examination to it and you spoke of it as being	8	
9	still in existence.	9	
10	KELLY, Q.C.:	10	
11	Q. In my understanding, and Hydro can speak to	11	HUTCHINGS Q.C.:
12	it, is that it has expired. I took it to -	12	-
1	COMMISSIONER SAUNDERS:	13	
14	Q. Yes, it has expired. Is thatMr. Young, yes?	14	-
1	MR. YOUNG:	15	
16	Q. That's common ground.	16	
1	COMMISSIONER SAUNDERS:	17	
1	Q. And that's your understanding as well, Mr.		1
18 19	Hutchings?	18	
1	_	19	
1	HUTCHINGS Q.C.:	20	
21	Q. That's common ground, yes.	21	
	COMMISSIONER SAUNDERS:	22	**
23	Q. Yes. There's two elements of that question, I	23	,
24	guess, in my mind. One is what is that the	24	1 &
25	Industrial Customers are asking the Board to	25	call it Interruptible B, call it curtailable
F-		-	· · · · · · · · · · · · · · · · · · ·
	Page 263		Page 264
1	`	1	Page 264 Industrial Customers with this possibility and
	Page 263		Page 264 Industrial Customers with this possibility and a number of them considered it and the only
1	Page 263 power, whatever, but in the circumstances that	1	Page 264 Industrial Customers with this possibility and a number of them considered it and the only one that actually took it up at the time was
1 2	Page 263 power, whatever, but in the circumstances that it is a just and reasonable and appropriate	1 2	Page 264 Industrial Customers with this possibility and a number of them considered it and the only one that actually took it up at the time was
1 2 3	Page 263 power, whatever, but in the circumstances that it is a just and reasonable and appropriate rate to be offered to Industrial Customers by	1 2 3	Page 264 Industrial Customers with this possibility and a number of them considered it and the only one that actually took it up at the time was Abitibi Stephenville and the terms of the
1 2 3 4	Page 263 power, whatever, but in the circumstances that it is a just and reasonable and appropriate rate to be offered to Industrial Customers by Newfoundland and Labrador Hydro. The Board	1 2 3 4	Page 264 Industrial Customers with this possibility and a number of them considered it and the only one that actually took it up at the time was Abitibi Stephenville and the terms of the contract were then negotiated. Mr. Young
1 2 3 4 5	Page 263 power, whatever, but in the circumstances that it is a just and reasonable and appropriate rate to be offered to Industrial Customers by Newfoundland and Labrador Hydro. The Board obviously has a general rate application	1 2 3 4 5 6	Page 264 Industrial Customers with this possibility and a number of them considered it and the only one that actually took it up at the time was Abitibi Stephenville and the terms of the contract were then negotiated. Mr. Young
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Page 265 Page 266 essentially, it's in with a blank page and we you got into a discussion on gaming the system 1 1 in reference to Newfoundland Power's 2 didn't ask the Board in this application for a 2 generation, and God forbid if they do, but who renewal of that. 3 3 would benefit from their gaming of the system, 4 COMMISSIONER SAUNDERS: 4 Q. If you had intended to renew it, would you Mr. Osler? 5 5 have come forward in your application to ask 6 MR. OSLER: 6 7 the Board to approve it? A. Generally only the party who's doing the 7 gaming would benefit. That's the idea. 8 MR. YOUNG: 8 That's why the word is used that word, so that Q. Yes, I think Mr. Hutchings' characterization 9 10 of the way it would work going forward is 10 Newfoundland Power, in that example, would essentially accurate. If we had thought it benefit by doing something that was to the 11 11 was appropriate for the Board to approve an disbenefit of everybody else on the system. 12 12 13 Interruptible B sort of arrangement of And it's not made in a pejorative sense in the 13 whatever sort we thought it might be, we would sense that Newfoundland Power is some evil 14 14 have applied with a rate sheet indicating what person who would do this. It's shouldn't 15 15 the terms and conditions of that rate would 16 16 design something that invites somebody to do be. It probably wouldn't be in the form of a 17 17 contract, but it would be more like--I'm Q. But if there was any gaming of the system, who 18 18 speculating to some degree. It would be more would be the ultimate beneficiary of it? 19 19 20 MR. OSLER: like the other rate forms that we have, but as 20 I mentioned a second ago, and I think it is A. Well, in the example given, it would be 21 21 Newfoundland Power because -22 common ground, we haven't applied that way. 22 23 COMMISSIONER SAUNDERS: 23 Q. Beyond that? 24 MR. OSLER: Q. Okay. Just one other question and that was in 24 relation to a question Mr. Browne asked and A. Well, beyond that, that would depend on how 25 Page 268 Page 267 times I read it and I thought they perhaps the benefits of gaming were flowed through to 1 1 the customers of Newfoundland Power or its 2 2 did, sort of wondered why they wouldn't, type of thing. So since both parties have talked 3 3 shareholders. extensively about the risk, I assume that I O. And to the detriment of? 4 4 5 MR. OSLER: 5 should be advised that Hydro ultimately doesn't control the switch with respect to the A. To the detriment of the people and the other 6 6 generators of Newfoundland Power. 7 customers or shareholder of Hydro, which would 7 Q. Well, we may hear something more on that later 8 include the Industrial Customers as a major 8 9 9 on. Thank you, Mr. Chair. element, in terms of customer, given the nature of the system. 10 CHAIRMAN: 10 11 Q. As I understand it, and I'm not sure I'm 11 Q. Thank you, Commissioner Saunders. correct in all cases with respect to Commissioner Whalen? 12 12 13 Newfoundland Power's generation, but maybe 13 COMMISSIONER WHALEN: Q. I have no questions. Thank you, Chair. 14 you're familiar, Mr. Osler or Mr. Bowman, 14 15 isn't their generation in large part subject 15 CHAIRMAN: to Hydro's dispatch? Q. I have no questions. Thank you, Mr. Bowman 16 16 and Mr. Osler. We're 15 minutes, I guess, 17 MR. OSLER: 17 ahead of schedule, which is a good thing, as 18 A. I'm not certain of that. I read parts of it 18 19 that made me think that was the case. Other Martha Stewart says. We'll reconvene at 9:00 19 parts of it, certainly all this comment in the tomorrow morning and we'll be hearing from 20 20 Hydro's cost of service expert, Mr. Greneman. 21 evidence of Hydro and Newfoundland Power about 21 22 the prospects of somebody gaming the system, 22 Look forward to that. Thank you. lead me to believe that both parties seem to (CONCLUSION - 4:00 P.M.) 23 23 24 agree that they don't have that type of

control of the switch back at Hydro. At other

Multi-Page ™ NL Hydro's 2003 General Rate Application

	Page 269	
1	CERTIFICATE CERTIFICATE	
2	I, Judy Moss Lauzon, do hereby certify that	
3	the foregoing is a true and correct transcript in	
4	the matter of Newfoundland and Labrador Hydro's	
1		
5	2003 General Rate Application for approval of,	
6	among other things, its rates commencing January,	
7	2004 heard on the 13th day of November, A.D., 2003	
8	before the Board of Commissioners of Public	
9	Utilities, Prince Charles Building, St. John's,	
10	Newfoundland and Labrador and was transcribed by me	
11	to the best of my ability by means of a sound	
12	apparatus.	
13	Dated at St. John's, Newfoundland and Labrador	
14	this 13th day of November, A.D., 2003	
15	Judy Moss Lauzon	