October 23, 2005	Iviuiti-	1 age	NE flyuro \$ 2005 General Kate Application
	Page 1		Page 2
1 LIST OF UNDERTAKINGS		1 (9:04	4 a.m.)
21. Undertaking Pg.	99	2 CHA	IRMAN:
3 2. Undertaking Pg.	123	3 Q	. Thank you. Good morning. Adjusting to the
4 3. Undertaking Pg.	124	4	post election drama that's unfolding and will
		5	be, I guess, over the next little while. Good
		6	morning, Ms. Newman. Are there any
		7	preliminary matters before we begin?
		8 MS.1	NEWMAN:
		9 Q	. Good morning, Chair and Commissioners. Yes, I
	9	10	did want to mention there was a document
	1	11	circulated the last day which was the key
		12	performance indicators. There was a response
		13	to an undertaking from Hydro and there was an
		13	inquiry as to the number, that is U-Hydro No.
		14	3 response. Also, I understand that counsel
			-
		16 17	for Newfoundland Hydro does want to address a
		17	couple of preliminary matters. But before we
		18	do that I did want to mention that we have a
		19	couple of special visitors here today. I
		20	don't know if everybody can see them in the
		21	back there. Mr. Michael Browne and Mr. Jeremy
		22	Power are here to observe our proceedings and
	2	23	I thought we should welcome them
	2	24	appropriately.
	2	25 CHA	IRMAN:
	Page 3		Page 4
1 Q. Oh, absolutely. Welcome. Hope you find the	he	1	line on Schedule 4 of the minimum storage
2 proceeding here this morning of interest.		2	targets, and that's Schedule 4 to Mr. Haynes'
3 We'll try to make it as interesting as		3	evidence. The specific undertaking related to
4 possible for you in any event.		4	the inputs to determine the shape of the green
5 MR. KENNEDY:		5	line. And I wonder, Mr. O'Reilly, if you
6 Q. Explained it wasn't a murder trial, yet.		6	could bring up Schedule 4, please? We've had
7 CHAIRMAN:		7	some discussion, Mr. Haynes, about this
8 Q. Anyway, welcome. Sit back and relax an	d	8	particular schedule. And I wonder again if
9 hopefully you'll learn something. We can't		9	you could indicate first what the red line is
10 promise that, but hopefully you will. Good		10	there on that?
		10	
111 morning Ms Greene		11 A	The red line is basically the maximum storage
11 morning, Ms. Greene. 12 GREENE, O.C.:			The red line is basically the maximum storage that we can physically contain in any
12 GREENE. Q.C.:	1	12	that we can physically contain in any
12 GREENE. Q.C.:13 Q. Good morning, Mr. Chair, Commissioners. 7	There 1	12 13	that we can physically contain in any particular given time, given the, you know,
 12 GREENE. Q.C.: 13 Q. Good morning, Mr. Chair, Commissioners. 7 14 were three undertakings provided on Tuesda 	1There11y,1	12 13 14	that we can physically contain in any particular given time, given the, you know, the PMF or the peak maximum flood expectations
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1 MR. HAYNES:	1	dictated by the actual firm forecast load that
2 in terms of energy that all our major	2	we anticipated seeing. In fact, that's a very
3 reservoirs on the Island Interconnected System	3	big driver of the shape, it's theyou know,
4 can contain at any given particular time in	4	it's theour planned firm load commitments
5 order for us to meet the firm sequence. So	5	during any particular time given all the other
6 it's the amount of energy that we target to	6	circumstances. As we add generation sources
7 have in storage in the hydraulic reservoirs	7	such as Granite Canal or power purchase
8 that along with the Holyrood and the NUG	8	agreements, such as the NUGS, it does impact
9 purchase contracts will allow us to meet the	9	that particular curve. And if we were tofor
10 firm sequence which we anticipate could start	10	instance, when we changed the Bay D'Espoir
11 at anyyou know, it's planned to start at any	11	runners, it would have an impact or if we up
12 particular time.	12	you know, if we upgraded Holyrood unit one and
13 Q. And what are the inputs that determine the	13	twos, we did quite awhile ago, they also
14 shape of that green line?	14	impact that shape. And it does change from
15 A. There are several. The inflow sequences that	15	year to year, particularly during my load
determine the target are by definition,	16	forecast. And we did present in IC-160 a
17 obviously as we mentioned a couple of times, a	17	series of curves from 1994 to 2002. And if
18 particularly dry sequence which was basically	18	you were to refer to those, it actually does
19 1958, late 1958 to the spring of 1961. And	19	show variation from year to year of that green
20 there were some other lesser significant but	20	line.
21 noteworthy dry sequences since then that had	21	Q. And the blue line and the magenta line
22 some influence on that curve. The shape of	22	represent 2002 and 2003 to date where the
the minimum storage curve is dictated by the	23	storages have been, is that correct?
24 pattern of inflows experienced during the vary	24	A. The blue line is 2002 and the magenta line is
25 low inflow sequences. And it's also largely	25	actually up until April. And there was an RFI
Page 7	-	
	1	Page 8 line is not the same as a guide curve for the
 requested by Newfoundland Power which updated it to July or August. I forget the number; I 	2	system, is it?
 apologize. But the magenta line is our track 	$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	A. No, it's not.
4 record this year.	4	Q. The next undertaking that we'd like to address
5 Q. Now, in his cross-examination Mr. Hutchings	5	is found on page 154 of the transcript, and I
6 suggested that the minimum storage target	6	don't think we need to go to it, but it
	7	relates to the load growth. And first I did
		want to refer to page 33 of Mr. Haynes'
8 individual reservoir target lines. Is that	8	evidence, line 6. Beginning there on line 6,
9 correct?	9	с с
10 A. No, that's not correct. There is no minimum	10	Mr. Haynes, is a sentence that states that
11 target for our reservoirs. Basically we have,	11	Hydro's current ten year annual average load
12 as we talked about the red line, the maximum	12	growth projection for the Island
13 storage capability. We do not have minimums	13	Interconnected System is 1.3 percent. Could
14 on any particular reservoir. We try to manage	14	you explain what period of time is represented
15 the whole. I think if you were operating a	15	by that sentence?
16 single plant where you may employ a guide	16	A. Yes. When we discussed this on Tuesday, I did
17 curve in a traditional way because you had a	17	reference the load forecast payable, which I
18 fairly base load and there's no opportunities	18	wasn't fast enough to find. It's actually
19 for inter reservoir optimization. And we take	19	Schedule 14. And the 1.3 percent is the
20 a fair bit of time to basically maximize the	20	anticipated energy requirements in 2012
-		
21 hydraulic production to minimize thermal	21	compared to the actual experienced in 2002.
21 hydraulic production to minimize thermal22 production and to basically maximize the	21 22	compared to the actual experienced in 2002. And those numbers are in the table and it is
 hydraulic production to minimize thermal production and to basically maximize the overall, the overall economics in favour of 	21 22 23	compared to the actual experienced in 2002. And those numbers are in the table and it is 1.3 percent, the average annual growth.
21 hydraulic production to minimize thermal22 production and to basically maximize the	21 22	compared to the actual experienced in 2002. And those numbers are in the table and it is

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Multi-PageTMNL Hydro's 2003 General Rate Application

	ober 23, 2003 Mult		'age NL Hydro's 2003 General Rate Application
	Page 9		Page 10
1 (GREENE, Q.C.:	1	MS. NEWMAN:
2	to 2011 prior to the Voisey's Bay nickel load.	2	2 Q. Ms. Greene, do you wish to make them exhibits
3	What is the projected average annual load	3	to the testimony of Mr. Haynes?
4	growth for that period from 2003 to 2011?	4	4 GREENE. Q.C.:
5	A. It's 0.6 percent per year for that eight year	5	Q. I'm going to speak to them; Mr. Haynes is not,
6	period.	6	so perhaps if wethe purpose of distributing
7	Q. If we compare that now for the period from	7	7 these hard copies is to illustrate that this
8	2002 actual to 2011 forecast, what is the	8	issue was raised during the 2001 General Rate
9	projected annual load growth for that period	9	Application and it was decided by the Board.
10	from 2002 actual to 2011?	10	And in light of the Chair's comments at the
11	A. And that was 0.8 percent per year.	11	beginning of this hearing, I question the
12	Q. The last undertaking that was given on Tuesday	12	2 merit of raising an issue that has already
13	is found on pages 168 to 169 of the	13	been reviewed at length in the 2001 GRA and
14	transcript. And the specific undertaking	14	4 decided by the Board.
15	related to providing an explanation given by	15	5 The first document that I'd like to refer
16	Newfoundland Power for their revised load	16	to is the transcript of November 6th, 2001.
17	forecast provided during the 2001 General Rate	17	7 Mr. Budgell was the witness for Hydro at that
18	Application. And here I do have some	18	time. And beginning on page 19 of the
19	documents to distribute. What I'm	19	transcript of November 6th you will see that
20	distributing are extracts from the transcript	20	Ms. Henley Andrews questioned Mr. Budgell with
21	and from final argument from the 2001 GRA	21	respect to the revised load forecast that had
22	where this issue was raised. And they haven't	22	2 been provided by Newfoundland Power and was
23	been filed to date, so they're not part of the	23	filed by Hydro in its update that was provided
24	official record for this hearing, so it's	24	in October of 2001. And in fact, the
25	necessary to distribute them in hard copy.	25	5 questioning was at length. I didn't provide
	Page 11		Page 12
1	the whole transcript, but the balance of the	1	others, but I have provided some pages where
2	day of November 6th was with respect to this	2	2 there was cross-examination at length on this
3	issue of the reasonableness of the revised	3	issue. And as I said, it actually took the
4	forecast from Newfoundland Power. The	4	rest of the day of November 6th with respect
5	specific undertaking that was asked on Tuesday	5	5 to historical load forecast of Newfoundland
6	was to provide the explanation that was given	6	5 Power and how it compared to the revised 2001
7	by Newfoundland Power for the revised load	7	7 load forecast. And in fact, there was
8	forecast in 2001. And I have provided to you	8	additional cross-examination on November 7th
9	page 19 where the exact same question was	9	on the issue.
10	asked of Mr. Budgell in 2001. And I guess the	10	The next document that I have circulated,
11	answer doesn't change in 2003. When you look	11	8 18
12	at line 60, you'll see Ms. Andrews ask Mr.	12	
13	Budgell "What's your understanding of	13	
14	Newfoundland Power's rational for the change?"	14	4 2001 General Rate Application. And the
15	The answer that Mr. Budgell gave is then	15	1
16	contained, "I haven't got any explanation	16	5
17	other than that fact that the new forecast	17	
18	reflects an update to the load. Newfoundland	18	
19	Power normally reflects their energy usage and	19	
20	then applies a load factor on their, I guess,	20	
21	on the individual energy demands on the system	21	5
22	and they do every time, I believe, they do a	22	1 5
23	forecast, they do an update to that. I'm	23	ε
24	assuming that the sample that they're using	24	1 0
25	reflected this change." And I won't read	25	5 Industrial Customer submitted that

Page 13		Page 14
		6
1 GREENE, Q.C.:	1	undertaking, the answer to the question is the
2 Newfoundland Power's revised demand and energy	2	same as was given in the fall of 2001, which
3 forecasts are not reasonable and should be	3	is that it was based on Newfoundland Power's
4 rejected. So that was their written argument.	4	review of the load forecast as they had done
5 The third document I have circulated is	5	in the past. However, our position is that
6 an extract from the transcript of January	6	this issue which related to the load forecast
7 28th, 2002 which was the oral argument at the	7	to be used in setting the current rates is a
8 conclusion of the 2001 GRA. And I have	8	moot issue, it was already decided by the
9 provided pages 34 and 35 of the transcript.	9	Board and should not be readdressed at this
10 And I would draw your attention to line 100	10	time in this hearing as there is noas it
11 where again we get the specific reference to	11	does not deal with the future rates but with
12 the Newfoundland Power revised forecast. And	12	respect to the current rates.
13 you'll see there that in oral argument, as	13	So those are the responses, Mr. Chair, to
14 well, the Industrial Customers raised the	14	the three undertakings that were given on
15 issue that the revised forecast for	15	Tuesday and included what I had as preliminary
16 Newfoundland Power was not reasonable and	16	comments for this morning. Thank you.
17 should be rejected by the Board. So that's		MS. NEWMAN:
18 beginning at line 100 on page 34 and	18	Q. Before we move on, just we should label those
19 continuing over to page 35 in the top	19	documents, I guess. We'll call them all
20 paragraph on page 35.	20	Information Item No. 15. 15-A will be the
21 The Board, in Order P.U.7 approved the	21	first document referred to, the transcript of
22 Cost of Service that was filed by Hydro which	22	November 6th. 15-B will be the excerpt from
23 included the revised Newfoundland Power load	23	the argument starting with page 111. And 15-C
24 forecast that was filed in October of 2001.	24	will be the transcript of January 28th, 2002.
25 So with respect to the specific	25	CHAIRMAN:
Page 15		Page 16
1 Q. Thank you. Thank you, Ms. Greene. Good	1	A. Yes.
2 morning, Mr. Haynes. How are you?	2	Q. Okay. Would you agree with me that the
3 A. Good. Thank you, Mr. Chair.	3	forecast didn't come true?
4 Q. When you're ready, Mr. Hutchings, please?	4	A. Most don't.
5 HUTCHINGS, Q.C.:	5	Q. That is true. And some are closer than
	15	
1.6 O Thank you Mr Haynes just so we're	6	
6 Q. Thank you. Mr. Haynes, just so we're	6	others, correct?
7 completely clear on this final issue of the	7	others, correct? A. That is correct.
 7 completely clear on this final issue of the 8 Newfoundland Power load forecast, is it your 	7 8	others, correct? A. That is correct. Q. Um-hm. And would you agree with me that there
 completely clear on this final issue of the Newfoundland Power load forecast, is it your evidence now that Mr. Budgell's answer from 	7 8 9	others, correct? A. That is correct. Q. Um-hm. And would you agree with me that there was a significant variance in the amount of
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Dama 17	D 10
Page 17	Page 18
1 GREENE, Q.C.: 1 average inflo	ows and affected the way that we
2 for a moment? It's the curves. Yeah. You 2 would opera	te the system. So that's aand
3 indicated that there was an influence on the 3 the green lin	ne is evolving over time as we
4 green line here, the minimum energy storage 4 experience	you know, it's not going to have
5 target from some periods other than the 1958 5 any significa	ant impact if it's a dry months,
6 to '61 lowest inflow period. Can you describe 6 but if you ha	ave two or three dry months which
7 for us what else aside from that lowest period 7 kind of exce	ed the short term, it can impact
8 from '58 to '61 influences those curves, how 8 that shape.	-
9 other periods of times factor in? 9 Q. Okay. So is	what you do when you come across
	h as in the fall of 1987, am I
	ng that that was the facta period
	ver than the corresponding period
	corresponding months within 1958
14 inflow period, so that would actually affect 14 to '61?	1 0
	t it was lower necessarily than
	ut it would have had an influence
	u know, say, fall periods. Other
	not have been as dry and so the
	ake a dip down in that period of
	biggest factor is the load, you
	firm load expectations of the
	r our forecast.
	understand that. So this is some
* ·	engineering judgment, I take it,
÷ .	this curve on the basis of dry
Page 19	Page 20
	the one that we would protect
2 A. Yeah, it's engineering judgment, but it's 2 against.	
	ed that your goal here in setting
	m curve is to ensure that you meet
5 -you know, to plan the system that way. 5 the firm fore	-
6Q. No, no, I'm not challengingI'm not6A. That's correct	
	t do you use as the firm forecast
	vfoundland Power in that instance?
L	eir load forecast, their energy
	his basically is energy, not
11 is that it can be repeated. 11 demand.	
12 Q. Is there some guideline which tells you that 12 Q. Sure.	
	y use their energy requirements
14 in 1987 or not in altering your curve, which 14 that they pro	
	with the Industrial Customers?
16 that firm period? 16 A. That's correct	
	wn hydro rural customers?
18 series. The most critical period was the dry 18 A. Yes.	
19 sequence of 1958 to '61. There are various 19 (9:30 a.m.)	
	, I'd like to discuss with you for a
	incident that was referred to
	ier testimony in September, I
23 the hydraulic series, then basically you 23 believe, of 2	2003 where you had the station
24 generate the scenario that you think that you 24 service failu	re at Bay D'Espoir.
25 would bewould be the most as possible to be 25 A. Yes.	

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1 0	GREENE, Q.C.:	1	or getting ready and possibly on. It would
2	Q. What date did that occur?	2	be, you know, the shoulder season.
3	A. September 18th.	3	Q. Okay. So I take it that when this incident
4	Q. September the 18th?	4	occurred the instructions or operating
5	A. I'm sorry. Yes, September the 18th.	5	procedures that are appended to your Exhibit
6	Q. Okay. And were you able to ultimately	6	JRH-3 would come into effect, as to say with
7	determine the cause of the failure of station	7	Appendix A?
8	service?	8	A. That's generally correct. Sometimes it would
9	A. Yes. There was an inverter failure which	9	beyou know, it depends on the amount of time
10	basically is aconverts power from DC to AC,	10	that we anticipate getting the particular
11	and it failed and the, I guess the root cause	11	issue repaired. Sometimes it's a matter of
12	is in the protection design which has since	12	just restarting the machines and it may be
13	been changed. There was an exposure there	13	only a few minutes; other times there are
14	that in a certain situation when a certain bus	14	other events which cause a larger delay if an
15	was de-energized, if the inverter was removed	15	investigation is required. But generally
16	from service or tripped, it would actually	16	speaking, that would be followed.
17	lose the total station service. And that's	17	Q. Okay. And how long did it take to get Bay
18	what happened. That deficiency has since been	18	D'Espoir back on, on that particular occasion?
19	addressed and repaired and I'm assured will	19	A. Well, that was a very unique problem which we
20	not happen again.	20	had not experienced and we had actuallyI
21	Q. Okay. In September, I guess, normally Bay	21	believe there were three machines that
22	D'Espoir would be producing significant	22	actually tripped off the system. And I do not
23	amounts of energy?	23	have the time frame. I'm not sure when
24	A. Typically, yes, because that would be the time	24	exactly the plant came back in line fully. I
25	period when Holyrood would be just starting up	25	don't have that in mind right now.
	Page 23		Page 24
1	Q. Okay. Can you just give us an estimate of how	1	Osler and Bowman's testimony? Blinded by the
2	long it was before, you know, service was	2	light, Mr. Chair. Yeah, starting at line 10
3	restored?	3	there and going down to line 28 the evidence
4	A. Service restored to the customers?	4	reproduces the sequence of activities in the
5	Q. Um-hm.	5	case where load is lost. And this particular
6	A. That was, I would suggest that was in less	6	one incorporates the information that was
7	than an hour that the service was restored.	7	provided in IC-295 about the sequencing of the
8	Q. Um-hm.	8	standby generation. Have you reviewed that
9	A. I interpret your question when Bay D'Espoir	9	listing of 11 steps?
10	was restored. There was a bit of a delay	10	A. I had reviewed it, I had reviewed that before,
11	because we had some issues to try to	11	yes.
12	understand what exactly happened before we	12	Q. Yes, okay. And is this essentially an
13	actually go back and take a chance -	13	accurate representation of the steps that
14	Q. Yeah, I recognize it's a different question,	14	would normally be taken in such an event by
15	yeah.	15	Hydro?
16	A. But I think it was probablyI actually don't	16	A. That would be the normal sequence. Obviously
17	have that recorded. But typically for an	17	there are, sometimes there are, you know,
18	event like that it's usually four to five	18	equipment out of service for one reason or
19	minutes, but depending on the nature of it is,	19	another that may not be available, but that
20	what time of the year, what other machines are	20	would be the general order.
21	available, particular Holyrood obviously being	21	Q. Sure. Okay. And on September, 2003 which of
22	a big source of energy. I think it was	22	these steps were taken?
23	approximately an hour that most things were	23	A. I do not know. I don't know that detail
24	returned, but I am not definitive on that.	24	offhand, but I would assure you that any
25	Q. Okay. Can I ask you to look at page 36 of Mr.	25	generation that was available to be dispatched

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1 N	MR. HAYNES:	1	turbines, they didn't actually get on. Is
2	to overcome than would have been initiated by	2	that correct?
3	the Energy Control Centre. But I don't know	3	A. I know that one gas turbine did get on. I am
4	the detailed steps or which particular	4	not certain whether the second one, the small
5	machines. I know that GNP was on, I know that	5	one actually came into service or not.
6	gas turbines were activated, I know that	6	Q. Okay.
7	Newfoundland Power was contacted to initiate	7	A. I understand the Green Hill gas turbine had
8	theirto do what they could do to start their	8	some maintenance issues that it did not
9	machines or get them up to speed.	9	actually get into service.
10	Q. Okay. You said you knew that GNP was	10	Q. Okay. And the Green Hill is the one on the
11	activated. I take it that's step 5-E here?	11	Burin Peninsula?
12	A. Yes. And Roddickton was on. I think St.	12	A. Yes, it is, yeah.
13	Anthony was certainly on, Roddickton was on,	13	Q. 25 megawatts?
14	and I think there may have been some issues on	14	A. Yes.
15	maintenance at Hawke's Bay at the time, at	15	Q. Yes, okay. Did your two turbines in Hardwoods
16	that particular time.	16	in Stephenville come on?
17	Q. Okay. When you say that Roddickton was on,	17	A. I believe they did but Iif they were not on
18	does that imply that the two NP gas turbines	18	maintenance, they would have been on.
19	were on as well?	19	Q. Okay. But you don't know whether they
20	A. The request was initiated, and I know that	20	actually came on or not?
21	they had some maintenance issues on one. I'm	21	A. I would be quiteI'm confident to say that
22	not sure about the second one.	22	they were, but I -
23	Q. Okay. I thought I had understood from earlier	23	Q. Okay. And what about the Holyrood gas
24	answers that you'd given that while the	24	turbine?
25	request was made to put on the two NP gas	25	A. I did not go down through the sequence of
	Page 2		Page 28
1	events to see, to determine if each and every	1	mean, any actions that the Control Centre take
2	step was anticipated. My understanding is	2	would be, in dispatching the generation, it
3	that all available generation that we could	3	would be, you know, a ranking from the point
4	dispatched would have been dispatched if it	4	of view of the cost of fuel at the time and
5	was available.	5	the ranking order, if you will, for Hardwoods
6	Q. Okay. Do you know if any of the non-firm	6	in Stephenville, for non-firm, could change
7	Industrial energy was interrupted?	7	depending on the price of fuel in the tanks.
8	A. I don't even know if we were actually	8	But on an emergency basically it's no holds
9	delivering non-firm at that particular time.	9	barred, if you will, to go get things back in
10	Q. Okay. I take it youwell, did you get down	10	service to meet the customers' demands.
11	to the point of reducing voltage at Hardwoods	11	Q. Okay. I take it that no issue arose on
12	or Oxen Pond's or ask anyone to shed any load?	12	September 18th, 2003 about curtailing the
13	A. I'm not sure.	13	Interruptible B load?
14	Q. You don't know?	13	A. There was no Interruptible B on September
15	A. That would be the normal function in the	15	there was no Interruptible B available at that
16	Energy Control Centre and I would not	16	time.
17	necessarily get into their clock on each and	17	Q. Because the contract had been permitted to
18	every event.	18	lapse?
10	Q. Okay. No, I simply assumed because you had	18	A. The contract did not cover September anyway.
20	already told us that you knew that the	20	Q. No, okay. I take it that aside from the
20	Newfoundland Poweror the Great Northern	20	Interruptible B contract that did exist, Hydro
22	Peninsula generation was on that you had	21	has no other similar interruptible types of
22	brushed up on this and you were aware.	22	arrangements with any of its customers?
23	A. I was aware that that generation was on	23	A. Not like that, no.
24	because it was available and it was there. I	24	Q. Okay. The only other issue would be the non-
	secure it was available and it was more. I	125	2. Skay. The only other issue would be the holi-

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1 0	GREENE, Q.C.:	1	A. Yes, and they could obviously presumably
2	firm industrial energy that may be taken at	2	decrease their non-firm take.
3	happen to be taken at any one point in time?	3	Q. Yes. They could choose to reduce it or
4	A. If we were delivering any non-firm at the	4	eliminate it at that time. Assuming that they
5	time, that would have been something that we	5	didn't do that, it wouldn't be down until step
6	would have curtailed, yes.	6	6 that you would actually interrupt their non-
7	Q. And that would occur after all of your other	7	firm energy, correct?
8	generation was on, including diesels and gas	8	A. When there was nothing else to fire up, if you
9	turbines and everything else?	9	will.
10	A. Actually, I think if you go back to, I guess,	10	Q. Right, okay. So in the situation of an event
11	the report that we have attached to Mr.	11	such as the September 18th event, had there
12	Osler's, that's actually Item No. 4. We'll	12	been any similar arrangement to Interruptible
13	maximize hydraulic and steam. We asked	13	B in place, presumably that would have been of
14	Newfoundland Power to maximize their hydraulic	14	assistance in meeting the problems created by
15	generation and I guess what that really	15	that event?
16	implies is that before we actually start to	16	A. The Interruptible B, when it was introduced, I
17	burn a more expensive source of energy, we'd	17	guess, or when it was initiated in 1993, it
18	actually curtail the non-firm.	18	was more done based on a short-term planning
19	Q. I think I -	19	horizon whereby for a short period of time, we
20	A. Or give the Industrials the option to pay	20	saw some issues with peak, and maybe because
21	those higher costs.	21	of equipment availability or because of
22	Q. Yes, and that's what Item 4 is.	22	unforeseen load, the action right here
23	A. Yes.	23	basically is recovering from aprimarily from
24	Q. You notify them that they could be paying gas	24	athe September event certainly was because
25	or diesel costs, correct?	25	we had a failure and a fairly significant
	Page 31		Page 32
1	failure at the Bay D'Espoir plant, and we were	1	generation, on the various diesel units, which
2	in very much of a hurry to get generation on.	2	is the last line, the start-up time is 45 to
3	The Interruptible B, there's time frames were	3	60 minutes and the mobile gas turbine, the
4	noticed. There's restriction on the hours of	4	start-up time is 60 minutes. Is that correct?
5	the day. The Interruptible B is definitely	5	A. That's correct.
6	not the same product as a gas turbine. It's	6	(9:45 a.m.)
7	very not compatible. They're not comparable.	7	Q. Okay. And together, they provide 13.9
8	It was useful for that particular event, when	8	megawatts?
9	we had an identified significant number of	9	A. Yes, that's correct.
10	years between when we had an LOH criteria	10	Q. Okay. And would you not see that there would
11	deficiency and an energy balance problem. But	11	be greater value in getting 46 megawatts
12	it's not the same product as a gas turbine.	12	within those 60 minutes, than getting 13.9 in
13	Q. Now I wasn't suggesting it was the same	13	that fashion?
14	product as a gas turbine, but the notice	14	A. The 13.9 megawatts, once they're started, at
15	provision that was in the Interruptible B	15	available for as long as we want, and you
16	contract was for one hour. Is that correct?	16	know, and so on. The 46 megawatt
17	A. I believe that's correct.	17	Interruptible B has certain time restraints on
18	Q. Okay. So on one hour's notice, you could get	18	the hours of the day when it can be used and
19	rid of 46 megawatts of load?	19	on the months that it can be used. So it's
20	A. Yes, for a defined period of time.	20	still not the same product. But, you know, I
21	Q. Yes, okay. Now if we look at IC-295 on page 2	21	mean, certainly there would have been some
22	of 2, we have the information about, among	22	the 46 megawatt Interruptible B was to look
23	other things, start-up time and dispatch	23	after the winter period and it'sI mean, when
24	sequence for various standby generation, and	24	we go down to item No. 9, I mean, we could
24	if we look at the Newfoundland Power standby	25	request the Industrial Customers of

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1 1	MR. HAYNES:	1	A. Basically we have the HYDROWISE Program and
2	Newfoundland Power, as you start going down	2	primarily that's our single biggest effort or
3	that pecking order, if you will, you will	3	the single thing that would contribute to
4	eventually get to curtailing load anyway.	4	demand side management over time.
5	Q. Now, but that's -	5	Q. Are you still filing annual reports with the
6	A. Most of our -	6	Board on demand side management activities?
7	Q that's curtailing firm load, correct?	7	A. I'm not certain. I'm not certain that we do
8	A. Yes, that's curtailing firm load, yes.	8	or do not.
9	Q. Okay. And that's something that nobody plans	9	Q. Okay. I noted that that was directed in the
10	for, except in an emergency situation,	10	1992 referral and you don't know how long that
11	correct?	11	went on after that, do you?
12	A. That's the last resort.	12	A. I'm not certain.
13	Q. And that causes disruption and cost to all of	13	Q. Okay. I understand as well that your target
13	your customers, correct?	13	at the time of the 1992 hearing was to get 50
1	A. Yes, it would.		6 6
15	-	15	6
16	Q. Yes, okay. Overall, wouldn't it have been	16	and 25 megawatts from retail customers by the
17	nice to have 46 megawatts Interruptible B	17	mid 1990s. Do you know if you met either of
18	available to you on September 18th?	18	those goals?
19	A. For that one event, you have to evaluate the	19	A. I have not reviewed that. I do not know that
20	cost and this overall and I would be reluctant	20	history.
21	toI don't think that at the end of the day	21	Q. And at the present time, you have no
22	it would have been something that we would	22	particular target in mind for reducing demand
23	have bought for that particular single event.	23	by demand side management activities? Is that
24	Q. What is your current goal for demand side	24	correct?
25	management programs or target?	25	A. We have, in the isolated diesel areas,
	Page 35		Page 36
1	reviewed demand side management opportunities	1	turbines and to do that and I know that one
2	as generation expansion particularly is	2	did notthey could not get one on or, you
3	required, but on the bulk system, we have not	3	know, it was on maintenance or whatever. I'm
4	taken any significant effort along those lines	4	not sure about the others.
5	and as I've mentioned in previous testimony	5	Q. Okay. Just one point for clarification
6	that theparticularly from a residential	6	arising from some questions Mr. Kelly was
7	customer point of view, the biggest customer	7	asking you. Can we put up LBB-3, Mr
8	base is not ours, in fact, it's Newfoundland	8	Brockman's evidence? Back one page. That's
9	Power's.	9	it. Can we get all that onthe two tables on
10	Q. If we look briefly at IC-300, here Hydro was	10	one screen? Okay. This was, as I understood,
11	asked about the occasions since 2000 when	11	a comparison of the peak and energy forecast
12	Newfoundland Power's generation has been	12	from 1990 and the same peak and energy
13	dispatched by Hydro to cover system capacity	13	forecast from the 2003 hearing. I take it
14	peaks, and at the time this answer was	13	that all of the numbers we see here are
15	produced, there was only one occasion and that	15	forecast numbers and there are no actual
15	was on January 30th of 2003. Do you know	15	numbers on this schedule. Is that your
17	whether or not this answer takes into account		understanding?
		17	C C
18	the September 18th situation? A. I would suggest that the answer inwell, the	18	A. Based on the dates, yes, that would be
10		19	correct.
19		20	0 Okay So what wa're looking at is a forecast
20	answer in 300 was with respect to our system	20	Q. Okay. So what we're looking at is a forecast from 1000 and another forecast from 2003. Can
20 21	answer in 300 was with respect to our system capacity peak, which would have been, you	21	from 1990 and another forecast from 2003. Can
20 21 22	answer in 300 was with respect to our system capacity peak, which would have been, you know, your one event a year, maybe two events	21 22	from 1990 and another forecast from 2003. Can you give us any number which would put into
20 21 22 23	answer in 300 was with respect to our system capacity peak, which would have been, you know, your one event a year, maybe two events a year. September certainly would not have	21 22 23	from 1990 and another forecast from 2003. Can you give us any number which would put into context the actual peak in any of these
20 21 22	answer in 300 was with respect to our system capacity peak, which would have been, you know, your one event a year, maybe two events	21 22	from 1990 and another forecast from 2003. Can you give us any number which would put into

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1 N	IR. HAYNES:	1	actual Hydro Island requirement for 2002 was
2	you give me a second. I don't know if it was	2	1403 megawatts. Is that correct?
3	Newfoundland Power or the Industrial Customers	3	A. Yes, that's correct.
4	who asked that question offhand.	4	Q. So would that be comparable to the forecast
5	Q. I don't think we need them all, Mr. Haynes.	5	peak megawatts for 2003 of 1578?
6	A. No, I just can't find it. I mean, the	6	A. I think the 2003, 1578 would be the total
7	forecastI mean, typically the forecast for	7	Interconnected System requirement.
8	the next year is reasonably close. Obviously	8	Q. Okay.
9	it varies depending on the weather, and then	9	A. I think the 1403 is the Hydro Island
10	as you go along the time, there's often times	10	requirement.
11	a larger error. But there were several RFIs	11	Q. All right. Okay. So you don't have, in your
12	filed with a forecast history. Actually, I	12	evidence, the total island requirement for
13	think I have them here, I'm sorry. The long-	13	2002, do you, actual?
14	term planning load forecast for total Island	14	A. In 2002 actual, the total island requirement
15	Interconnected System was filed as IC-270, and	15	is on Schedule 14. The actual was 1592
1	if you go to IC-270, page 2 of 3, for		
16		16	megawatts.
17	instance, in 1993, actually that's a very	17	Q. Yes, okay. So that would be the number that's
18	long, long term. There was another one, I'm	18	comparable with the forecast, 1578?
19	sorry. I cannot find it at my fingertips but	19	A. Yes.
20	I assure you it's there, I'm sorry.	20	Q. For -
21	Q. Yes, well -	21	A. And that's the number that, you know, I think
22	A. There's several. There was a wholethere	22	I may have inferred or implied yesterday or
23	were a series of planning forecasts filed.	23	the day before that what we have in these
24	Q. Yes. What I'm trying to get to really is the	24	particular things is we plan for the total
25	actuals and I think from your Schedule 11, the	25	island forecast of all, you know, including
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1	the Industrial load behind their generation	1	Q. Okay. So what we need to address is how to
2	and so on, so this is the Interconnected	2	take into account, in the fairness possible
3	Island requirements, regardless of who	3	manner, the fact that Newfoundland Power does
4	supplied.	4	in fact have generation facilities of its own,
5	Q. Okay. All right. That covers that point.	5	correct, that needs to be addressed in a cost
6	I'd like to discuss a little further with you	6	of service situation?
7	the issue of the Newfoundland Power generation	7	A. I believe it has been addressed.
8	and you reviewed some of this material with	8	Q. Yes, and it needs to be addressed?
9	Mr. Kelly earlier. I take it the real issue	9	A. It has been addressed, I thought.
10	here is how we deal with the fact that	10	Q. Yes. And it has been because it needs to be?
11	Newfoundland Power does have its own both	11	A. Yes.
12	hydraulic and thermal generation and how that	12	Q. Okay. You're trying to get one question ahead
12	should impact the cost of service to all of	12	of me, Mr. Haynes.
13	-	13	A. I apologize.
114	The clistomers is that really the issue we re		
15	the customers. Is that really the issue we're trying to get here?		
15	trying to get here?	15	Q. We take them one at a time.
16	trying to get here? A. Can you repeat that? I'm not quite sure I	15 16	Q. We take them one at a time.A. I'll try not to do that.
16 17	trying to get here?A. Can you repeat that? I'm not quite sure I understood what you asked.	15 16 17	Q. We take them one at a time.A. I'll try not to do that.Q. If we take them one at a time, I think we'll
16 17 18	trying to get here?A. Can you repeat that? I'm not quite sure I understood what you asked.Q. Well, obviously if Newfoundland Power had no	15 16 17 18	Q. We take them one at a time.A. I'll try not to do that.Q. If we take them one at a time, I think we'll make better progress. You've mentioned in the
16 17 18 19	trying to get here?A. Can you repeat that? I'm not quite sure I understood what you asked.Q. Well, obviously if Newfoundland Power had no generation of its own, this wouldn't be an	15 16 17 18 19	Q. We take them one at a time.A. I'll try not to do that.Q. If we take them one at a time, I think we'll make better progress. You've mentioned in the course of your evidence that you don'tyou're
16 17 18 19 20	trying to get here?A. Can you repeat that? I'm not quite sure I understood what you asked.Q. Well, obviously if Newfoundland Power had no generation of its own, this wouldn't be an issue, would it?	15 16 17 18 19 20	Q. We take them one at a time.A. I'll try not to do that.Q. If we take them one at a time, I think we'll make better progress. You've mentioned in the course of your evidence that you don'tyou're not really in the field of the cost of service
16 17 18 19 20 21	trying to get here?A. Can you repeat that? I'm not quite sure I understood what you asked.Q. Well, obviously if Newfoundland Power had no generation of its own, this wouldn't be an issue, would it?A. Well, there would be no generation credit	15 16 17 18 19 20 21	 Q. We take them one at a time. A. I'll try not to do that. Q. If we take them one at a time, I think we'll make better progress. You've mentioned in the course of your evidence that you don'tyou're not really in the field of the cost of service and you don't feel that you should be
16 17 18 19 20 21 22	trying to get here?A. Can you repeat that? I'm not quite sure I understood what you asked.Q. Well, obviously if Newfoundland Power had no generation of its own, this wouldn't be an issue, would it?A. Well, there would be no generation credit applied because we would be basically filling	15 16 17 18 19 20 21 22	 Q. We take them one at a time. A. I'll try not to do that. Q. If we take them one at a time, I think we'll make better progress. You've mentioned in the course of your evidence that you don'tyou're not really in the field of the cost of service and you don't feel that you should be addressing specific issues arising out of the
16 17 18 19 20 21 22 23	 trying to get here? A. Can you repeat that? I'm not quite sure I understood what you asked. Q. Well, obviously if Newfoundland Power had no generation of its own, this wouldn't be an issue, would it? A. Well, there would be no generation credit applied because we would be basically filling thepresumably Newfoundland and Labrador 	15 16 17 18 19 20 21 22 23	 Q. We take them one at a time. A. I'll try not to do that. Q. If we take them one at a time, I think we'll make better progress. You've mentioned in the course of your evidence that you don'tyou're not really in the field of the cost of service and you don't feel that you should be addressing specific issues arising out of the cost of service study itself. Is that
16 17 18 19 20 21 22	trying to get here?A. Can you repeat that? I'm not quite sure I understood what you asked.Q. Well, obviously if Newfoundland Power had no generation of its own, this wouldn't be an issue, would it?A. Well, there would be no generation credit applied because we would be basically filling	15 16 17 18 19 20 21 22	 Q. We take them one at a time. A. I'll try not to do that. Q. If we take them one at a time, I think we'll make better progress. You've mentioned in the course of your evidence that you don'tyou're not really in the field of the cost of service and you don't feel that you should be addressing specific issues arising out of the

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1 N	IR. HAYNES:	1	meeting the requirements of the system at this
2	asking Mr. Banfield and Mr. Greneman.	2	stage, I take it you regard the Newfoundland
3	Q. Okay. And equally, you're not comfortable	3	Power generation, both hydraulic and thermal,
4	with addressing rate design issues?	4	as being useful? Is that correct?
5	A. No, that's correct.	5	A. Yes, we do.
6	Q. Okay. So harkening back to my opening remarks	6	Q. So from your point of view, if Newfoundland
7	about the three classes of issues we have	7	Power's thermal generation were to disappear
8	here, aside from cost of service and rate	8	tomorrow, would you go out and buy generators
9	design, are the revenue requirement issues.	9	to replace that?
10	So those are the issues thatthe issues that	10	A. If the Newfoundland Power generation were not
11	you address fall within that category? Is	11	available -
12	that correct?	12	Q. Thermal generation.
13	A. Well, I guess, from my perspective, I guess,	13	A. Pardon?
14	the position we basically are there to fulfil	14	Q. Thermal generation.
15	the needs of the system load and we operate	15	A. Just the thermal generation were not
16	and maintain the system. That's primarily my	16	available, what that would do, it would impact
17	role.	17	our LOLH calculations and it wouldI'm not
18	Q. At the lowest possible cost consistent with	18	quite sure at what particular time, but it
19	reliable service?	19	would definitely affect, quite possibly affect
20	A. Exactly.	20	the timing of the future megawatt requirements
21	Q. Yes, okay. And that's where the revenue	21	or, you know, some peaking plant capability,
22	requirement comes from, that's the lowest	22	because they would not actuallythe diesel
23	possible cost?	23	plants or the gas turbines would not actually
24	A. That's a big part of it, yes.	24	remove energy from the system because we don't
25	Q. Right, okay. Now from the point of view of	25	depend on that for firm, but it would affect
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1	the LOLH.	1	least cost for the consumers or the overall
2	Q. Yes, okay. So if it affected the LOLH to the	2	cost of service.
3	extent that you needed additional capacity,	3	Q. That cost would disappear off your desk into
4	you know, you had to go out and buy a gas	4	the cost of service study, and from your point
5	turbine, would you look at all into what the	5	of view, you don't much care where it goes
6	cost effects of that would be on particular	6	after that?
7	customers or would you just be looking for the	7	A. Well, no, I wouldn't put it that way. I
8	most economical way to meet the need?	8	certainly do care, and I certainly am
9	A. We would look at the most economical way to	9	sensitive to the implications, but basically
10	reinstate the planning criteria that has been	10	we plan the systemwe plan the Island
11	adopted at 2.8 hours per year. You would look	11	Interconnected System to meet a certain
12	atyou would have to look at the whole. You	12	criteria and, you know, given that that is an
13	would have to look at the energy situation and	13	appropriate criteria, then what is the least
14	the timing and so on, and I don't think you	14	cost to do to meet that particular criteria,
15	could look at one specific aspect. You have	15	we would propose to the Public Utilities Board
16	to look at the whole, at all the options and	16	for approval. And obviously, there are
17	what they actually bring to the table.	17	repercussions in the cost of service and so
18	Q. Okay. Directing my question to the production	18	on, but you know, it can be met by Hydro
19	department, would it be any concern of yours	19	sources. It can be met by NUGS and so on.
20	as to what the impact on particular customers	20	There are a myriad of different things that we
21	would be of replacing existing thermal	21	would consider to achieve that objective.
22	generation owned by Newfoundland Power with	22	Q. As I understand it, the Newfoundland Power
23	new thermal generation owned by Hydro?	23	hydraulic generation is used by Newfoundland
24	A. The production division and Newfoundland Hydro	24	Power and you really don't have any connection
25	would basically propose to do what is the	25	with that, do you, other than perhaps asking

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1 0	GREENE, Q.C.:	1	Newfoundland PowerI don't know their actual
2	them to optimize it in an emergency situation?	2	production costs per generating plant.
3	A. The average energy production of Newfoundland	3	Q. No, but one would assume that it'd be much
4	Power's hydraulic resources is considered	4	less than the cost of producing that energy in
5	obviously as, you know, in the energy forecast	5	Holyrood?
6	that we provide, and the megawatts are there	6	A. I would think, certainly less than Granite
7	and if weyou know, they are there. We	7	Canal, if you will.
8	assume they're there at the 78 megawatts	8	Q. Yes.
9	during peak on a normal basis and if we have	9	A. The newer plant.
10	any deficiencies, we would certainly call them	10	Q. Right. In terms of the Newfoundland Power
11	to ask them to basically, you know, turn them	11	thermal generation then, I take it you don't
12	up a bit higher, if required, but we would	12	plan on having any energy produced by that
13	only do that whenand they do achieve a	13	generation? Is that correct?
14	fairlya fair, high availableI'm sorry, a	14	(10:06 a.m.)
15	high availability in terms of megawatts during	15	A. The only thermal plant on the island that we
16	peak. But we would call them if we saw any	16	actually plan any energy production from is
17	deficiencies or any shortfalls, but	17	Holyrood. We don't plan for firm energy from
18	ordinarily, if it wasn't required, they would	18	any of the diesel plants or gas turbines,
19	manage it up to about 75 or 80 megawatts	19	regardless of ownership, because of the cost
20	anyway.	20	of operating, you know, the high fuel costs.
21	Q. Okay. And as I understand it, that's power	21	Q. And that includes Newfoundland Power's thermal
22	that's relatively cheap in the context of this	22	generation?
23	system?	23	A. Yes, it does.
24	A. I would assume because most of them are older	24	Q. Now on the question of the capacity criterion,
25	plants, not all, but that would be a	25	as I understand it, and trying to make sure
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1	that I took the right message from your	1	if youI'm not going to do the math. I'm
2	discussions with Mr. Kelly earlier, you	2	sure I'll tangle it up here, but basically we-
3	establish, in your case, an LOLH criterion and	3	-and we have already said there's about a 16
4	when you are forecasting that the number you	4	percent reserve which basically gets us to the
5	expected to reach is higher than your	5	2.8 LOLH. So it would be basically along the
6	criterion, you need to do something to bring	6	lines of 1602 plus 16 percent would be roughly
7	that number down, whether that's creating new	7	the number.
8	generation or shedding load or whatever,	8	Q. Okay.
9	correct?	9	A. You know, that is not an absolute, but that's
10	A. Yes, obviously, I mean, if it's 2.801, we	10	the ballpark.
11	probably don't be too concerned, but if it's 3	11	Q. Yes. And as I understand it, the 16 percent,
12	or 3.5, then basically that's a trigger that	12	and perhaps I'm wrong on this, is not the 16
13	we need to start looking at new peaking	13	percent a result of the 2.8 LOLH?
14	capability on the system, in whatever form is	14	A. Yes, and we did file a report in IC-158 which
15	most economic.	15	actually talked about the relationship between
16	Q. Okay. And that's a standard way of managing	16	the LOLH and the reserve figure. It used to
17	this type of a hydraulic system or of an	17	be 18 $1/2$ percent, but there are a raft of
18	energy production system?	18	factors that actually influence the actual
19	A. Pretty well any system, yes, any system that	19	percent, the load shape and so on, so it's 16
20	plans on an overall integrated basis would	20	percent, the fold shape and so on, so it's a fo
20	look at that, yes.	20	today between 2.8 and the -
22	Q. Yes, okay. If we can look now at your Table	21	Q. Yes. One of the factors that affects the
22	8, how much capacity do you need to meet the	22	percentage that that produces is the amount of
24	demands on the system in 2004?	23	capacity that you have in place, isn't it?
25	A. Our peak requirements are 1602 megawatts and	24	A. Yes, and the forced outage rates and their
Ľ	real real real real real real real real		Page 45 - Page 48

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1 N	AR. HAYHES:	1	you know, 15 to 25, even 30 percent reserve,
2	availability.	2	depending on their situation.
3	Q. Right. So -	3	Q. I understand that, but if you're targeting at
4	A. It's not just a name plate rating. It's the	4	2.8 LOLH, and nothing else changes other than
5	whole.	5	the addition of a couple of hundred megawatts
6	Q. No, I understand that, but just at a matter of	6	of capacity, what does that do to the
7	principle level, without getting into the	7	percentage reserve that is implied by 2.8?
8	numbers, the fact of adding Granite Canal	8	A. The 2.8 percent reserve isI'm sorry, 2.8
9	would mean that your percentage of reserve	9	percent LOLH equates to about 16 percent
10	would go down if your LOLH stayed the same,	10	reserve. In 2004, with our load forecast and
11	correct?	11	the generation that's available, our reserve
12	A. The actual reserve would actually go up. We	12	is actually just a little under 20 percent.
13	would have more reserve because we added	13	So as you build generation, you will increase
14	Granite Canal.	14	the reserve and then you will come down over
15	Q. You would have more reserve, but your	15	time and then you'll presumably build new
16	requirement, your reserve requirement goes	16	generation and you go up, you get sort of a
17	down as you add capacity, doesn't it, as a	17	saw-tooth thing sort of thing as you build the
18	percentage of your total capacity?	18	system.
19	A. The reserve requirement doesn't change that	19	Q. I don't think I'm getting an answer to the
20	much as you add in the short term, it's	20	specific question in the sense of, as a matter
21	basically, I mean, our requirement is 16	21	of principle, if you maintain a 2.8 LOLH and
22	percent and by adding the Granite and the	22	nothing else changes, except that you add
23	NUGS, we're basically right now at	23	capacity to your system, does the required
24	approximatelyjust a little less than 20	24	reserve percentage go up or down?
25	percent reserve. And typically systems are,	25	A. The required doesn't change, but what you
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1	actually would have would be actually a lower	1	think I clearly understand your question.
2	number. The required reserve doesn't change,	2	Q. Okay, just as a matter of mathematics, it
$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	you know, it's 16 percent. I don't under -	3	seems to me that if a reserve of 160 megawatts
4	Q. Well if you have a thousand megawatts and at	4	is sufficient where you have 1000 megawatt
5	2.8 LOLH, your reserve is 16 percent; hence,	5	capacity, and nothing else changes, your
6	your reserve is 160 megawatts, correct?	6	reserve, 160 megawatts, should be the same if
7	A. Presumably, yes.	7	you add 1000 megawatts of capacity and hence,
8	Q. Yes, okay. So if you then up that to 2000, if	8	you're still at 2.8 LOLH, but your percentage
9	you reserve yourif your change your capacity	9	is now down to 8 percent? Can you explain to
10	to 2000, has your reserve requirement now gone	10	me what's wrong with that?
11	up to 320 megawatts?	10	A. I think we're not on the same wavelength at
12	A. Only if your peak forecast load changed. If	11	all, I apologize. But when we plan a system,
12	your peak forecast load goes up, then your	12	we plan for our loss of load hours of 2. 8
13	reserve requirement would go up, you know, all	13	hours. Obviously as you build generation that
14	else being equal.	14	you will have some impact on the actual LOLH
15	Q. Yes, but if nothing else changes, if your	15	that you would calculate for that situation.
10	requirements stay the same and nothing changes	10	If were today and let's assume this was 2004
17	other than that you add capacity?	17	and if you go to Table 8, we have a loss of
18	A. Then we would have overbuilt, the criteria was		load hours of 1.1 hours. If we were to, for
20	still 16 percent.	19 20	whatever reason, put in a new plant, even
20	Q. The criteria is 16 percent or is it 2.22.8	20 21	though the load did not change, there was no
21	LOLH?		reason to do it, that calculation would
22	A. No, well the criteria is 2.2, it equates to 16	22 23	decrease, you know, and the amount of
143	-		-
	nercent. It equates to 16 percent reserve and	24	reduction would be dependent upon the type of
24 25	percent. It equates to 16 percent reserve and that's the way the numbers come out. I don't	24 25	reduction would be dependant upon the type of plant that you build, its forced outage rate,

1 MR. HAYNES: 1 percentage of your existing capacity? 2 its capacity factor, its availability and they 2 A Yes. 3 all influence the number. So that number 3 Q. Yes., okay. So to get back to where I was, if 4 would reduce, but the criteria would not 4 nothing else had changed and the only thing 5 change. 5 that happened on the system was the addition 6 Q. No, the criteria is still 2.8. 6 of 224 megawatts of capacity from Granite 7 A. And the amount of reserve that would have. 6 of 224 megawatts of capacity from Granite 8 on the system would increase substantially if 9 you would require, would go down, correct? 9 you add a generation that you didn't need, for 9 A. Yes, the megawatt didn't change much, but the percent, yes. 11 Q. No, I understand that, and my question is not 11 Q. Okay, and tha's one of the things, thut so one of the things that results in the 18.5 coming 12 arount of megawatts, bod own? 14 for the hast term minutes, yes. because it's 14 13 A. And the sout mersers is 's 14 for the sit term minutes, yes. because it's 15 13 A. And the sout mersers is 's 14 for the sit term minutes, yes. because it's 15 14 pep		Page 53		Page 54
1 is capacity factor, its availability and they 2 A. Yes. 3 all influence the number. So that number 3 Q. Yes, okay. So to get back to where I was, if 3 change. 0. Yes, okay. So to get back to where I was, if nothing dse had changed and the only thing 5 change. of 224 megawatts of capacity from Granite Yes, okay. So to get back to where I was, if 7 A. And the emount of reserve that we would have of 2 Pay megawatts of capacity from Granite 7 A. And the amount of reserve that we would have of 2 Pay and that's one of the things. I mean, 10 o. No, I understand that, and my question is not 12 i's not all of i, obviously, but that's one 12 directed toward the actual reserve that you 12 i's not all of i, obviously, but that's one 13 and it seems to me that if you increase your 16 A. And the load shupe, you know, there's several 16 reserve that was the discussion, I apologize. 17 Q. Yeah, where we vere trying to get no, oky. 2 O. That's where we vere trying to get no, oky. 24 All right, so the reserve is a number of 2 O. That's where we vere of the sevent is sevent is sevent	1 1	0		0
all influence the number. So that number 3 Q. Yes, okay. So to get back to where I was, if 4 would reduce, but the criteria would not 5 nothing else had changed and the only thing 6 Q. No, the criteria is still 2.8. 6 6 7 224 megawatts of capacity from Granite 7 Q. No, the criteria is still 2.8. 6 6 7 224 megawatts of capacity from Granite 8 on the system would increase substantially if 8 you would require, would go down, correct? 9 you add a generation that you didn't need, for 9 A. Yes, the megawatts didn't change much, but the 10 O. No, I understand that, and my question is not 11 Q. Okay, and that's one of the things, I mean, 11 Q. No, it understand that, and my question is not 11 Q. Okay, and that's one of them, the fact that 12 arcentage of existing capacity to meet 2.8. 14 down to 16, correct? 13 A dit seems to me that if you increase your 15 A And the load shape, you know, there's several 14 percentage has tog odwn? 17 17 Q. Veak, but this is one of them, the fact that 14 percent gess 16 fortha was the discussion, 1 apologiz. 2	2	its capacity factor, its availability and they	2	
4 would reduce, but the criteria would not 4 nothing else had, changed and hen only thing 5 change. 5 that happened on the system was the addition 7 A. And the amount of reserve that we would have 6 of 224 megawatts of capacity from Granite 7 A. And the amount of reserve that we would have 7 Canal, then the percentage of the reserve that 9 you add a generation that you didn't need, for 9 A. Yes, the megawatts of capacity from Granite 10 0. No, I understand that, and my question is not 12 i's not all of it, obviously, but that's one 12 directed toward the actual reserve that you 12 i's not all of it, obviously, but that's one 13 And it seems to me that if you increase your 13 A. And the load shape, you know, there's several 16 capacity and change nothing else, that 17 9. Yeah, but this is one of the things that results in the 18.5 coming 18 A. Putting it that way and maybe I misunderstood 18 there is additional capacity on the system? 19 arount of megawatts, 300 over al agree number, of 24 forecast, is 1602 megawatts, puts your 16 23 Q. That's where we were trying to get to, okay. 25 A	3	_ · ·	3	Q. Yes, okay. So to get back to where I was, if
5 that happened on the system was the addition 6 Q. No, the criteria is still 2.8. 6 A. And the amount of reserve that we would have 7 Canal, then the percentage of the reserve that 8 on the system would increase substantially if 8 you would require, would go down, correct? 9 you add a generation that you din't need, for 9 A. Yes, the megawatts din't change much, but the 10 Q. No, I understand that, and my question is not 10 Q. Okay, and that's one of the things, I mean, 11 Q. No, I understand that, and my question is not 11 Q. Okay, and that's one of the things, I mean, 12 diversem stom that if you increase your 16 correct? 13 And tic seems to me that if you increase your 16 factors that go ino it. 14 percentage has tog odwn? 17 Q. Yeah, but this is one of them, the fact that 18 A. Putting it that way and maybe I misunderstood 18 there is additional capacity on the system? 17 if that was the discussion, I apologize. 20 That's where we were trying tog tot, okay. 21 24 Q. That's where were trying tog tot, okay. 24 A That's correct. 25 <td>4</td> <td></td> <td>4</td> <td>· ·</td>	4		4	· ·
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 23 continuously build a system on a marginal 24 basis. 25 "No, I don't think what we have in service is 24 in excess of what's required to meet the 	19 20	you also have more capacity than you need to meet your criterion of 2.8 LOLH, correct?A. Yes, and that would be typical for any	18 19 20	page 4 of the transcript of October 21st of 2003, actually you should go back to page 3
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Page 57 1 GREENE, Q.C.: 1 A. There is a small amount there which will c	D 70
1 GREENE O C	Page 58
	carry
2 Now, you just told me that you have more 2 us for a few years, yes.	
3 capacity than you need to meet your LOLH, you 3 Q. Yes, okay.	
4 have more energy than you need to meet your 4 A. But I would not suggest it's "over built", it	t
5 requirements for energy, why is it that what 5 would be the normal way that you would e	expand
6 you have in service is not in excess of what's 6 the system.	
7 required to meet the loads, given the criteria 7 Q. No, I understand exactly what you're say	ring
8 you operate by? 8 and I don't think we used those words, but	tas
9 A. You cannot economically expand the system to, 9 matters stand now, it will be 2010 befor	e
as you need one megawatt or you need one 10 there is a violation of your LOLH criteria,	
11 gigawatt hour that you build one megawatt and 11 correct?	
12 you build one gigawatt hour. You build it in 12 A. In 2009 the energy balance would be a ve	erv.
13 increments that are economically viable and 13 very minor deficit and in 2001, the LOLH v	-
14 optimize the time. So, you know, you cannot 14 be exceeded.	, o uru
15 go inwell, you can do it if you want, but it 15 go inwell, you can do it if you want, but it 15 g. Yes, okay. If we could look for a momen	t to
16 would not be prudent or reasonable or economic 16 your Schedule 14? This relates to the issue	
17 to go in and build the Granite Canal for 27 17 of growth that we talked about in terms of	
17 by go in and build the Grante Canal 101 27 by growth that we taked about in terms of growth	
	-
19 resource can provide you so much more, so - 19 agree with me that other than in the last 20 No. Via Via agree in a factor of the interpreter	
20 Q. No, I'm not suggesting that at all and I'm not 21 couple of years, 2010, 2011, the increase state that you form	
21 suggesting there's anything devious or wrong 21 the number of megawatts that you fores	
22 in this, it's just that at the present time 22 having to meet is less than 10 megawatts	1n
23 you do in fact have more capacity and more 23 any year?	
24 energy capability than you need to meet the 24 A. Well I think in one year it's 11, but more c	or
25 load in 2004? 25 less.	
Page 59	Page 60
1 Q. It's 11 in 2010? 1 I mean, it is a, obviously any reduction of	r
2 A. Yes. 2 conservation efforts will be a plus for the	:
3 Q. But up until that point, this - 3 expansion of the system. If you slow it dow	wn,
4 A. There are very small increases in the demand 4 it's a lower per unit for power to all our	
5 growth, yes. 5 customers.	
6 Q. Okay, and looking over on the energy side, 6 Q. And on the energy side, the growth is fair	ly
7 generally speaking we're looking at not much 7 small as well?	
8 more than 50 gigawatt hours of growth in any 8 A. Yes, .6 percent, it's not great, not big.	
9 vear? 9 0. So would you agree that this is a particular	rlv
9 year? 10 A. More or less, yes. 10 good time then to be pursing Demand S	-
10A. More or less, yes.10good time then to be pursing Demand S	-
10A. More or less, yes.10good time then to be pursing Demand S11Q. And it's for that reason I asked you to do the11Management issues?	Side
10A. More or less, yes.10good time then to be pursing Demand S11Q. And it's for that reason I asked you to do the calculation leaving out the effect of Voisey's10Management issues?12A. It would beI'm not sure about Demand	Side Side
10A. More or less, yes.10good time then to be pursing Demand S11Q. And it's for that reason I asked you to do the11Management issues?12calculation leaving out the effect of Voisey's12A. It would beI'm not sure about Demand13Bay, so we come down to a .6 percent growth13Management issues, it certainly would be	Side Side e an
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Discoveries Unlimited Inc., Ph: (709)437-5028

Multi-PageTMNL Hydro's 2003 General Rate Application

October 23, 2003		I-Pa	ge ^m NL Hydro's 2003 General Rate Application
	Page 61		Page 62
1 MR. HAYNES:		1	general sense, can you outline to us what the
2 significant driver of the	load growth in our	2	revisions proposed by Hydro for the assignment
3 system.		3	of plant are today, compared to what they have
4 Q. Thank you, Mr. Hayn	es. Those are my	4	done in the past?
5 questions, Mr. Chair. M	Ir. Seviour will now	5	A. If you go back a number of years, if you go
6 address the plant assignr	nent issues.	6	back prior to the last hearing, the generation
7 CHAIRMAN:		7	on the GNP was assigned common. We had
8 Q. Good morning, Mr. Sevi	our.	8	proposed in the last GRA to make the
9 MR. SEVIOUR:		9	transmission on the Doyles/Port aux Basques
10 Q. Good morning, Mr. Cha	irman. Good morning, Mr.	10	system and the GNP, as well as the Burin to be
11 Haynes. Mr. Haynes, it'	s my happy task to get	11	common as well because of the interconnected
12 into plant assignment ma	atters with you and I	12	generation. In the Board Order P.U.7 that was
13 wonder if we could turn	up your exhibit JRH	13	not accepted and we were asked to go back and
14 No. 3, and if you could	l turn to page 23,	14	undertake this study to review the generation
15 please? And Mr. Hayne	es, could you read the	15	and transmission of all of those systems,
16 first sentence under the l	neading "Conclusion"?	16	which we have subsequently done, and the
17 A. "Based on this review of	of the value of the	17	significant change that we're asking for or
18 Great Northern Penins	ula generation and	18	that we are seeking in this filing, as we
19 transmission assets and	of the value of the	19	think we have amply demonstrated, is that we
20 Doyles/Port aux Basque	s and Burin Peninsula	20	do not propose to include the GNP transmission
21 transmission assets to	b the Island	21	as common, but we do strongly recommend that
22 Interconnected System,	Hydro proposes a	22	the generation plant under GNP be considered
23 revision to the guideline	s for the assignment	23	as a common assignment because it benefits all
24 of plant."		24	customers.
25 Q. Perhaps I can get you to	stop there. In every	25	Q. Thank you, and that's the one significant
	Page 63		Page 64
1 department on plant ass	ignment that is made	1	change. And perhaps it would be useful at
2 from the submissions ma	de in P.U.7 hearing.	2	this point to turn up P.U.7, page 112. And as
3 (10:30 a.m.)		3	I understand it, the second and third
4 A. Other than the changes	because of Granite	4	paragraphs that appear on this page relates to
5 Canal and the other t	hings which are	5	the approach that Hydro took before this Board
6 generally, I don't think a	re in dispute, our	6	in 2001 in plant assignments, both in respect
7 filingour GRA that we	have filed for this	7	to generation and transmission. I just wonder
8 particular hearing does	not have the GNP	8	if you could read for the record the third and
9 generation as common, b	out we are proposing to	9	fourth paragraph to kick off this discussion,
10 incorporate that in our fi	nal filing.	10	please?
11 Q. I want to come to that in	just a moment, Mr.	11	A. Starting at "Newfoundland and Labrador Hydro
12 Haynes, but at this point	for the assistance	12	has proposed"?
13 of counsel and the Boar	rd, I would like to	13	Q. Yes.
14 focus on the guideline is	sues. You're the one	14	A. Okay. "Newfoundland and Labrador Hydro has
15 who has presented the	guidelines in your	15	proposed in this Application that generation
16 evidence as to the appr		16	and associated transmission assets on the GNP
	common plant assignment	17	be assigned as common, consistent with the
18 and specifically assigned		18	Board's 1996 recommendations. IC-215
19 made, and in fact, I think		19	described the guidelines that Newfoundland and
20 makes those recommend		20	Labrador Hydro has proposed in order to apply
21 understand the outcome	of the proposal and I	21	the Board's '96 recommendations consistently
22 understand the change th		22	across the Island Interconnected System. In
23 Hydro in this GRA, but I		23	its guidelines, NLH is proposing that in
24 moment just to the issu	e of the guidelines	24	situations where transmission and terminal
25 that underlie those recom	nmendations and that	25	station equipment connect a single customer

	Dogo (5		
1	Page 65	1	Page 66
	MR. HAYNES:	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Haynes. A. Yes.
2	and remote generation to the grid, that the	2	
3	transmission and terminal equipment would be	3	Q. And just for the record, would you read that
4	assigned common, if, under any normal	4	please?
5	operating scenario, the output of the remote	5	A. "The following facilities will be assigned as
6	generation can be delivered to the 230 kV	6	common plant: all of Hydro's transmission and
7	grid. " IC-215, page 3.	7	terminal station plant that connects a single
8	Q. And perhaps I can just stop you there, and Mr.	8	customer in generation or voltage support
9	O'Reilly, if we could just bookmark that page	9	equipment that is of substantial benefit to
10	and come back to it in a moment, but here	10	more than one customer."
11	we're dealing with the transmission and	11	Q. Thank you, and Mr. O'Reilly if we could flip
12	terminal station equipment assignment, and I	12	back to page 112 of P.U.7? So again, the
13	wanted to flip back to your page 18 of your	13	paragraph that's in the center there is the
14	JRH 3 exhibit, if I could, to compare that	14	one you just finished. The principle of
15	guideline with what in fact is being proposed	15	assignment to commonreferring to the last
16	in this hearing? And under the heading 4.1	16	two lines, if under any normal operating
17	"Transmission Allocation Guideline", I	17	scenario the output of the remote generation
18	understand the italicized part of that	18	could be delivered to the 320 kV grid, that no
19	paragraph to represent the current proposed	19	longer is relevant to this discussion, is that
20	guidelines that Hydro seeks to apply in this	20	correct?
21	hearing with respect to the assignment of the	21	A. No, we have not looked at it that way, we have
22	transmission and terminal station plant?	22	looked at the substantial benefit and I think
23	A. Yes, I believe that's correct, yes.	23	the distinction is under transmission assets.
24	Q. Perhaps you might just want to read the	24	Q. Sorry?
25	context of it, I want to be sure on this Mr.	25	A. The distinction is on the transmission asset,
	Page 67		Page 68
1	the generation is still of substantial benefit	1	that page?
2	to all anotome and head aller what we are		1 0
-	to all customers and basically what we are	2	A. "Common plant is defined as plant that is of
3	proposing is the transmission may not	2 3	* -
	proposing is the transmission may not necessarily be so.		A. "Common plant is defined as plant that is of
3	proposing is the transmission may not necessarily be so. Q. And maybe we can deal with generation by	3	 A. "Common plant is defined as plant that is of substantial benefit to more than one firm
3 4	proposing is the transmission may not necessarily be so.Q. And maybe we can deal with generation by asking you to read the second paragraph that I	3 4	 A. "Common plant is defined as plant that is of substantial benefit to more than one firm customer. Costs for common plant are assigned
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3 4 5 6	proposing is the transmission may not necessarily be so.Q. And maybe we can deal with generation by asking you to read the second paragraph that I	3 4 5 6	 A. "Common plant is defined as plant that is of substantial benefit to more than one firm customer. Costs for common plant are assigned to all customers of the system. The following facilities have been assigned as" Q. That's enough, I think it's just the principle I wanted to bring before the Board, Mr.
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1 N	MR. SEVIOUR:	1	so it ended up common or whatever. In this
2	your view?	2	particular case, we look at the whole and it's
3	A. Can you just repeat that, I'm sorry.	3	a bit more subjective in the sense that you
4	Q. We've seen a change in the two transmission	4	consider the size of the generation and so on.
5	and generation assignment principles or tests	5	So it's less onerous, I would think, it's less
6	or approaches that we've seen used by Hydro in	6	specific, a bit more subjective now than it
7	the 2001 and the present hearing and I'm	7	was in the past.
8	asking you if the current test which moves to	8	Q. It calls for the engagement of more judgment
9	a substantial benefit test for assignment of	9	and consideration, is that fair?
10	plant to common, is that seen by Hydro to be a	10	A. Yes, and you would consider the whole
11	higher standard than which was used in 2001?	11	transmission system and the generation
12	A. I think you have to answer the question from	12	location and the history.
13	separately for transmission and generation.	13	Q. Okay. And we'll come to that in just a
14	For generation, the criteria isthe results	14	moment, but do I understand you to say that
15	are the same. I guess at all generation,	15	any, in principle, applying the substantial
16	whether it's connected into the radial line or	16	benefit test for common plant assignment
17	if it's in the middle of the 230 kV system, is	17	purposes that any generations that
18	used and useful and of substantial benefit to	18	interconnected to the grid would, in fact, be
19	all customers. The transmission line test is,	19	of substantial benefit to all customers that
20	I mean, I guess the allocating plant is not a	20	are serviced by that grid?
21	"science", there are a lot of flexibility of	21	A. You would have to temper it by how long it
22	interpretation and history and so on. And the	22	takes to get it on and the availability to the
23	test that we have proposed in the last hearing	23	system. I don't think you'd get down into,
24	was a lot less subjective in the sense that	24	you know, some very small generation that
25	you did the test, it either passed or failed,	25	somebody could actually put on for, you know,
	Page 71		Page 72
1	through some exceptional effort, but by and	1	And could you read the guideline respecting
2	large, most of the generation or basically or	2	specifically assigned plant for the record.
3	all the generation that is assigned and	3	A. Specifically assigned plant is defined as
4	considered in our calculations are either	4	plant as a benefit to only one customer, cost
5	remote controlled or have operators in the	5	for a specifically assigned plant are assigned
6	immediate area who can actually do that fairly	6	directly to the benefitting customer.
7	quickly, whether it's us or Newfoundland Power	7	Q. And finally I want to turn back to the
8	or whomever.	8	beginning of this page, the second sentence,
9	Q. So, there are judgment exercises that need to	9	where we're talking about the revisions to the
10	be brought to bear on the question of whether	10	guidelines for the assignment of plant and you
11	or not generation plants should be assigned to	11	say, "these revisions reflect the requirement
12	common, even if its interconnected to the grid	12	that each component of plant be assigned to
13	for the province. Is that what I can	13	customers in a fair and equitable manner".
14	conclude?	14	And I wanted to get your thoughts on that
15	A. Yes, and the reason that I said that is	15	particular requirement that you referenced in
16	because there are other generators that are	16	your evidence that the plant assignment be
17	out there and, you know, customers that are	17	done to customers in a fair and equitable
18	two or three tiers down and so on, which are	18	manner. How does that principle apply to the
110		1.0	guidelines that we've just looked at for the
19	not part of the exercise and they are remote,	19	
19 20	not part of the exercise and they are remote, if younot remote, but they are not generally	19 20	assignment of common plant and specifically
	-		
20	if younot remote, but they are not generally available between our Control Centres or between, for instance.	20	assignment of common plant and specifically assigned plant? A. I think thatI shouldn't say I thinkthat
20 21	if younot remote, but they are not generally available between our Control Centres or between, for instance.Q. Just before leaving this discussion of	20 21	assignment of common plant and specifically assigned plant?A. I think thatI shouldn't say I thinkthat it's our, it is our view that, for instance,
20 21 22	if younot remote, but they are not generally available between our Control Centres or between, for instance.	20 21 22	assignment of common plant and specifically assigned plant? A. I think thatI shouldn't say I thinkthat

	Page 73		Page 74
1 N	IR. HAYNES:	1	assignment, in your judgment?
2	operation, maintenance, et cetera. For	2	A. Yes, it is.
3	facilities that are of benefit to only one	3	Q. Thank you. I want to finish in this
4	customers, be it a transmission line or a	4	discussion by just stepping back a second.
5	transformer and there is not benefit to any	5	You're an electrical engineer by profession
6	other customer, that is specifically assigned.	6	and that's, I think, the tenor of most of your
7	It does not mean to say that you cannot have	7	evidence here in the past couple of days, is
8	common plant that is behind this specifically	8	that correct?
9	assigned asset, such as a transmission line	9	A. Yes, I'm an electrical engineer.
10	because the generation, as we've shown in the	10	Q. In terms of the plant assignment exercises, do
11	report, is usually useful for everybody's	11	I understand that this is something that is
12	benefit.	12	done by your department or is this done by
13	Q. And we'll come to a discussion on that in just	12	your department in conjunction with other
14	a moment. I guess I'm still at the level of	14	departments and/or executive members in Hydro?
15	principle, Mr. Haynes. And I'm trying to get	15	A. The primary review of the plant assignment is
16	a sense, in terms of the approach that's taken	15	initially done in System Planning. They
17	and these assignment issues. Is it fair for	17	basically design the system and so on and they
18	us to conclude and the Board to understand	17	are quite involved in thenot necessarily in
10	that in making assignments of plant, there	10	the allocation of plant, but in designing the
20	must be an overriding principle that the	20	system to meet the customer needs and in the
20	assignment be made to customers in a fair and	20	best position to asses its value, if you will,
21	equitable manner as your evidence seems to	21	you know, and who benefits.
22	state here?	22	Q. And, of course, the Systems Planning people
	A. Yes.	23	report to you?
24 25	Q. And is that a fundamental principle of plant	24	A. They do.
25	Q. And is that a fundamental principle of plant	25	A. They do.
	D 75		D 74
	Page 75		Page 76
1	Q. And is that primarily an engineering analysis,	1	consideration, but it does not actually change
2	Q. And is that primarily an engineering analysis, a function analysis?	2	consideration, but it does not actually change whether it should be or whether re recommended
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	MR. SEVIOUR:	1	of the assignment issues for GNP. And as I
2	plant assignments?	2	understand, we're dealing, the top left hand
3 (10:45 a.m.)	3	corner of the page, with three diesel plants
4	A. I would say no, that is a separate issue.	4	and one hydro plant with an aggregate capacity
5	Q. I wanted to started with the GNP assets and	5	of 15.1 megawatts for the GNP transmission.
6	talk briefly about them. I understand from	6	Do I have that correct?
7	P.U. 7 that these were interconnected in 1996	7	A. That's correct.
8	at a cost of approximately thirty one and a	8	Q. And for the GNP interconnection, these are the
9	half million dollars. Is that consistent with	9	transmission lines and associated stations.
10	your understanding?	10	We have a total of eight transmission lines,
11	A. 1996, if I recall, the dollar sounds right,	11	is that correct?
12	but I -	12	A. Yes, that's correct.
13	Q. Maybe we could just turn that up for the	13	Q. And the voltages are as they've been set out.
14	record, it's page 110 of the P.U. 7 and the	14	I think you already mentioned that in 2001,
15	first paragraph there, I think, that we see a	15	Hydro recommended the assignment of both
16	statement on the fourth line, third/fourth	16	generation and transmission as common. Now,
17	line, "the GNP interconnection was completed	17	that recommendation was not accepted by the
18	in '96 at a cost of \$31,418,995.00." You	18	Board and I just want to begin this discussion
19	accept that?	19	by returning to the Board's finding and
20	A. Yes.	20	disposition on that point and that's found at
21	Q. Thank you. Can I turn up RH 3, page 5, please	21	P.U. 7, pages 112, 113. Perhaps the bottom of
22	Mr. O'Reilly. Thanks, can we get the whole	22	pagecan Iyes, that's perfect, Mr.
23	screen on thethank you, that will be fine,	23	O'Reilly. I want to read to the record or
24	Mr. O'Reilly. I just wanted to begin with	24	have you read to the record, the disposition
25	understanding what we're dealing with in terms	25	of the Board in 2001 on this issue. And
	Page 79		Page 80
1	perhaps start at the very top of the page	1	annual generation compared to the average
2	where it says, "the Board has insufficient".	2	annual load for the GNP. Am I correct in my
3	Q. "The Board has insufficient evidence to accept	3	conclusion that I can undertake that exercise
4	NLH's proposed change in assignment of GNP	4	with this exhibit?
5	assets to common. While the GNP generation	5	A. Yes, the total generation and the annual load
6	can exceed the radial load under specific low	6	on the GNP are the two columns on the right.
7	load conditions, it is not clear that this	7	Q. And by my math, Mr. Haynes, when I took the
8	scenario would actually provide any benefit to	8	average of total generation, the second last
9	the Island interconnected customers since this	9	column against the average of the annual load
10	is not when the generation will be needed by	10	in the last column, I got figures which
11	the system. IC 128 shows that the annual	11	yielded a 2.7 percent figure. In other words,
12	generation from GNP assets has constituted, on	12	that the annual generation from GNP assets for
13	average, less than three percent of the GNP	13	the period '97 to the end of 2002 was on,
14	annual radial load since interconnection with	14	average, actually less than 2.7 percent of the
15	the St. Anthony and the Roddickton diesel	15	GNP average annual radial load. And my
16	plants operated only for plant and forced	16	figures, just for the record on that were an
17	outages".	17	average total generation of 1363.5 megawatts
18	Q. That's fine, thank you. And in terms of the	18	divided by an average annual load of 52,104
19	percentage of average generation from the GNP	19	megawatt hours. I'll leave with thatdoes
20	assets, I'm going to take you to another	20	that sound about right?
21	percentage there, in the finding, was three	21	A. It sounds reasonable, yes.
22	percent. I'm going to take you to IC 87 NLH.	22	Q. Okay. And in referring to the year 2002, the
23	And as I understand it, Mr. Haynes, this	23	figure was, in fact, even less than that
24	exhibit will allow the calculation of the	24	reflected just for 2004, a use or a generation
25	percentage of annual generation of the average	25	from the GNP assets of about 2.4 percent of

	Page 81		Page 82
1 N	AR. SEVIOUR:	1	whether or not it's appropriate to treat
2	the GNP load for that particular year. So, in	2	generation differently than associated
3	fact, the three percent figure which the Board	3	transmission for assignment principles, are
4	referenced in its P.U. 7 judgment, if you	4	you aware of that?
5	accept my math, is now in fact, less than it	5	A. Yes.
6	was in 2001. Subject to my math being	6	Q. And Hydro concludes that this is fine, this is
7	correct, do you agree with that?	7	okay in principle, is that correct?
8	A. Subject to your math being correct, yes.	8	A. We have no difficulty with, as I mentioned a
9	Q. Thank you. Now, the Board's direction to	9	few minutes ago, that we do not, following
10	study the value of GNP assets to the island	10	this review, we do not propose or think that
11	system, that is JRH 3 and that's the exhibit	11	because a generation asset is common, that the
12	we've been looking at.	12	interconnecting transmission must be common.
13	A. That's correct.	13	They can be treated separately.
14	Q. And is this your exhibit, your document you've	14	Q. I'd like you to take the Board to the basis
15	created?	15	for that conclusion and I think it's found at
16	A. It was created through my division, through	16	pages 19 and 20 of your exhibit RH 3. And for
17	Production Division.	17	the record, I wonder if you could read what I
18	Q. But you take responsibility for it?	18	understand to be Hydro's position on starting
19	A. I do.	19	with "there are two key factors".
20	Q. And a conclusion, as you've mentioned, is that	20	A. "There are two key factors to consider in
20	the generation should be assigned common from	20	determining if generation and the connecting
22	GNP, but the transmission should be assigned	22	transmission and terminal station assets could
23	specifically to Hydro rural?	23	logically be assigned differently. Planning
24	A. That's correct.	24	basis, the application of generation planning
25	Q. RH deals, at one point, with the issue of	25	criteria as outline previously does not
	Page 83		Page 84
1	consider the location of individual generation	1	they are of common benefit to all customers.
2	assets on the system. The only consideration	2	Many of these generation assets are located
3	at this stage of the planning process is that	3	well within Newfoundland Power's service
4	the generation assets must be capable of	4	
5	-		territory with a connecting transmission and
	delivering capacity and energy to a system and	5	territory with a connecting transmission and distribution lines owned and paid for by
	delivering capacity and energy to a system and thus, the system be capable of utilizing that	5	distribution lines owned and paid for by
6	thus, the system be capable of utilizing that	6	distribution lines owned and paid for by Newfoundland Power's customers. Therefore,
6 7	thus, the system be capable of utilizing that capacity when needed. The process of planning	6 7	distribution lines owned and paid for by Newfoundland Power's customers. Therefore, this treatment of Newfoundland Power's thermal
6 7 8	thus, the system be capable of utilizing that capacity when needed. The process of planning the transmission system focuses on the ability	6 7 8	distribution lines owned and paid for by Newfoundland Power's customers. Therefore, this treatment of Newfoundland Power's thermal generation assets in the COS which has been in
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6 7 8 9 10 11	thus, the system be capable of utilizing that capacity when needed. The process of planning the transmission system focuses on the ability to maintain acceptable voltages, reliability, stability throughout the system. Transmission facilities must be adequate to connect	6 7 8 9 10 11	distribution lines owned and paid for by Newfoundland Power's customers. Therefore, this treatment of Newfoundland Power's thermal generation assets in the COS which has been in place since the 1970s would support the position that transmission assets need not necessarily be allocated in a same manner as
6 7 8 9 10 11 12	thus, the system be capable of utilizing that capacity when needed. The process of planning the transmission system focuses on the ability to maintain acceptable voltages, reliability, stability throughout the system. Transmission facilities must be adequate to connect generation to the grid and to serve the	6 7 8 9 10 11 12	distribution lines owned and paid for by Newfoundland Power's customers. Therefore, this treatment of Newfoundland Power's thermal generation assets in the COS which has been in place since the 1970s would support the position that transmission assets need not necessarily be allocated in a same manner as remote generation assets, they connect to the
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1 MR. SEVIOUR:	1	aware of the EES report and the
2 to the Board that Hydro's recommendations with	2	recommendations made by the Board's
3 respect to the assignment of generation and	3	consultants?
4 transmission for the GNP are similar to the	4	A. Yes, I've read the report.
5 recommendations made with respect to the	5	Q. And perhaps we can turn that up, Mr. O'Reilly,
6 Doyles/Port aux Basques system.	6	it's page 4 of EES report. And if you could
7 A. Yes, they are. The transmission assets on the	7	just scroll down. I'm sorry, I'm at page 4,
8 GNP, we recommend to be assigned to Hydro	8	in the summaries, perhaps you could scroll
9 rural. The transmission assets, although its	9	there we go. Thanks. In the fourth bullet,
10 Port aux Basques, we recommend to be assigned	10	the fifth bullet, the summary of EES's
11 to Newfoundland Power, the generation on the	11	recommendations, they discuss the assignment
12 GNP, we recommend common and the generation on	12	and they say GNP Doyles/Port aux Basques and
13 the Doyles/Port aux Basques would be included	13	Burin Peninsula assignments should use a
14 in the credit arrangements or the calculations	14	consistent assignment methodology for the
15 for Newfoundland Power.	15	generating and transmission facilities. And
16 Q. So, they're really two systems where you've	16	detailed study has found great benefit to all
17 got recommendations from generation to be	17	customers on the Island interconnect system
18 assigned common and transmission to be	18	from the generating resources and therefore,
19 assigned, specifically assigned.	19	assigned these resources as common. The
20 A. In essence, yes.	20	methodology used to assign these associated
21 Q. So, they're two applications of this principle	21	transmission facilities should be similar.
that we just discussed.	22	The common system cannot get the benefit of
A. Yes, and they are, you know, smaller amounts	23	the generation resources without the
24 of generation basically on radial lines.	24	transmission facilities. So, I understand EES
25 Q. And just to conclude on this point, are you	25	to be recommending that however the approach
Page 8	7	Page 88
1 is undertaken, that the generation should be	1	actually cover off a couple of our reliability
2 assigned in the same methodology or the same	2	targets by dispatching that generation to a
3 manner as the transmission. Do you	3	radial system. You do provide them some
4 understand that to be the case?	4	reliability and back up and you still meet
5 A. That's EES's recommendation, yes.	5	your LOH criteria. So, we're quite
6 Q. And we'll have a chance to discuss that with	6	comfortable that what we have proposed is
7 them, but can you confirm that Hydro's	7	sound and reasonable.
8 position and Hydro's recommendations	8	Q. Thank you, Mr. Haynes. Mr. Chairman, I'm just
9 respecting plant assignment that are found in	9	about to undertake a new area. I'm in your
10 your exhibit RH 3 and in your evidence have	10	hands as to whether this would be an
11 not changed by reason of EES recommendations?	11	appropriate time for -
12 (11:01 a.m.)	12 CH	AIRMAN:
13 A. No, they have not. We don't share that view.	13	Q. I think it would, Mr. Seviour, yes. Thank you
14 I could, from an overall system planning	14	very much. We'll reconvene at 11:30 a.m.)
15 perspective, a small example would be that if	15	(BREAK - 11:30 a.m.)
16 we had theif we needed to install, for	16	(RESUME - 11:30 a.m.)
17 instance, through our examination and our		AIRMAN:
18 studies that we needed a ten megawatt peaking	18	Q. The young men are still here. They'll be
19 plant some place and the easiest thing to do	19	commended.
20 from the point of view of keeping this clean		TCHINGS Q.C.:
21 and simple would be to install it at, say,	21	Q. Still awake, Mr. Chairman.
22 Hardwoods or Stony Brook or whatever. When		AIRMAN:
23 you look at the whole system and you look at a		Q. Mr. Seviour, when you're ready, please.
24 radial line and the GNP, Doyles, Port aux		8. SEVIOUR:
25 Basques, Burgeo or whatever, then you would	25	Q. Thank you, Mr. Chairman. Mr. Haynes, I wonder

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1 MR. SEVIOUR:	1	originally constructed to serve the Isolated
2 if we could begin by discussing the GNP	2	System, as a result of the interconnection now
3 transmission assignment, and I want to take	3	serve as a reserve capacity to the
4 you to JRH-3, page 20, which deals with	4	Interconnected System. While a benefit to all
5 Hydro's recommendation on that point, and	5	customers, these generation assets are not of
6 under the heading "Proposed Transmission	6	sufficient magnitude, in Hydro's opinion, to
7 Assignment" could you read the section that	7	justify an assignment of the GNP transmission
8 begins "GNP transmission assets" for the	8	assets to common, given the dominant use of
9 record?	9	the transmission system in serving that
10 A. "GNP transmission assets. The GNP assets	10	customer group. Therefore, while cost
11 clearly follow the assignment guideline	11	assignment is a matter of judgment with many
12 associated with the connection of a single	12	issues and no absolute answer on balance,
13 customer, Hydro Rural, and the remote	13	Hydro's interpretation of the guidelines would
14 generation or voltage support equipment to the	14	result in a recommendation that the GNP
15 Island grid. Prior to 1996, transmission on	15	transmission assets be specifically assigned
16 terminal assets on an GNP up to and including	16	to Hydro Rural."
17 Bear Cove terminal station were specifically	17	Q. Thank you, and does that mean that applying
assigned to Hydro Rural. An examination of	18	the principles or the guidelines that we
19 the rationale for the 1996 expansion of the	19	earlier looked at, that we can conclude that
20 transmission system to Interconnected	20	in Hydro's view, the GNP transmission is not
21 previously Isolated St. Anthony Roddickton	21	of substantial benefit to the grid?
22 system clearly indicates that the transmission	22	A. The transmission, yes, that's correct, it's
23 system was constructed for the benefit of	23	not a substantial -
24 customers on these Isolated Systems. The	24	Q. And the reason that it's not of substantial
25 generation assets on the GNP, which were	25	benefit to the grid is because the GNP
Page 91		Page 92
1 generation is not of sufficient magnitude?	1	the grid and should be assigned to Hydro Rural
2 A. No. The GNP generation, 15.1 megawatts, is of	2	is because the generation on the GNP that is
3 sufficient magnitude to be a benefit to all	3	interconnected is not of a sufficient enough
4 customers, but the transmission connecting is	4	magnitude.
5 primarily for the purpose of Rural. The	5	
6 generation is of use.	5	A. That is one of the primary reasons, yes.
7 O Yes Det Les de stande en de ser ales de st	5 6	A. That is one of the primary reasons, yes. Q. Is there another reason?
7 Q. Yes. But I understand your conclusion that		
 Q. Yes. But Tunderstand your conclusion that the transmission is not to be assigned common 	6	Q. Is there another reason?
-	6 7	Q. Is there another reason?A. The transmissionthe justification for
8 the transmission is not to be assigned common	6 7 8	Q. Is there another reason?A. The transmissionthe justification for interconnecting the St. Anthony Roddickton
8 the transmission is not to be assigned common9 because it's not of substantial benefit to the	6 7 8 9	Q. Is there another reason?A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou
 8 the transmission is not to be assigned common 9 because it's not of substantial benefit to the 10 grid is because the generation that's 	6 7 8 9 10	Q. Is there another reason?A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not 	6 7 8 9 10 11	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? 	6 7 8 9 10 11 12	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 	6 7 8 9 10 11 12 13	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 megawatts. 	6 7 8 9 10 11 12 13 14	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for Rural and so on. The generation was
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 megawatts. Q. Yes. 	6 7 8 9 10 11 12 13 14 15	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for Rural and so on. The generation was interconnected to the system at the time and
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 megawatts. Q. Yes. A. But it is of benefit to all customers. 	6 7 8 9 10 11 12 13 14 15 16	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for Rural and so on. The generation was interconnected to the system at the time and is of benefit, but the transmission is of no
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 megawatts. Q. Yes. A. But it is of benefit to all customers. Q. No, I understand your position on the generation, Mr. Haynes. Don't misunderstand me. What I'm just trying to get a fix on and 	6 7 8 9 10 11 12 13 14 15 16 17	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for Rural and so on. The generation was interconnected to the system at the time and is of benefit, but the transmission is of no significant value per se to the common system.
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 megawatts. Q. Yes. A. But it is of benefit to all customers. Q. No, I understand your position on the generation, Mr. Haynes. Don't misunderstand 	6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for Rural and so on. The generation was interconnected to the system at the time and is of benefit, but the transmission is of no significant value per se to the common system. Q. That's an historical circumstance?
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 megawatts. Q. Yes. A. But it is of benefit to all customers. Q. No, I understand your position on the generation, Mr. Haynes. Don't misunderstand me. What I'm just trying to get a fix on and 	6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for Rural and so on. The generation was interconnected to the system at the time and is of benefit, but the transmission is of no significant value per se to the common system. Q. That's an historical circumstance? A. It's historical, yes.
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 megawatts. Q. Yes. A. But it is of benefit to all customers. Q. No, I understand your position on the generation, Mr. Haynes. Don't misunderstand me. What I'm just trying to get a fix on and to be precise about it, is the basis for your 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for Rural and so on. The generation was interconnected to the system at the time and is of benefit, but the transmission is of no significant value per se to the common system. Q. That's an historical circumstance? A. It's historical, yes. Q. Yes. Thank you. Thank you for that. I'm
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 megawatts. Q. Yes. A. But it is of benefit to all customers. Q. No, I understand your position on the generation, Mr. Haynes. Don't misunderstand me. What I'm just trying to get a fix on and to be precise about it, is the basis for your conclusion that the transmission is not of substantial benefit to the grid, and if I misunderstand you, correct me, please, but I 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for Rural and so on. The generation was interconnected to the system at the time and is of benefit, but the transmission is of no significant value per se to the common system. Q. That's an historical circumstance? A. It's historical, yes. Q. Yes. Thank you. Thank you for that. I'm going to ask you to turn to page 24 of JRH-3 now and ask you if Hydro's position with respect to the assignment of the GNP
 the transmission is not to be assigned common because it's not of substantial benefit to the grid is because the generation that's interconnected by that transmission is not large enough? A. It's not a significant number. It's 15 megawatts. Q. Yes. A. But it is of benefit to all customers. Q. No, I understand your position on the generation, Mr. Haynes. Don't misunderstand me. What I'm just trying to get a fix on and to be precise about it, is the basis for your conclusion that the transmission is not of substantial benefit to the grid, and if I 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Is there another reason? A. The transmissionthe justification for interconnecting the St. Anthony Roddickton system was the subject of a cost benefityou know, a net present worth evaluation, which basically justified the interconnection based on the government, the Federal government grant, and it was an economic thing to do for Rural and so on. The generation was interconnected to the system at the time and is of benefit, but the transmission is of no significant value per se to the common system. Q. That's an historical circumstance? A. It's historical, yes. Q. Yes. Thank you. Thank you for that. I'm going to ask you to turn to page 24 of JRH-3 now and ask you if Hydro's position with

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	IR. SEVIOUR:	1	as the conclusion and approach taken with
2	guideline for assignment of plant? Perhaps	2	respect to the GNP?
3	you can read that for the record and then	3	A. Yes, it -
4	address the question.	4	Q. Is that -
5	A. "The NPIC sub-transmission -	5	A it's similar. There's only one customer,
6	Q. No, sorry, the Hydro Rural sub-transmission.	6	Newfoundland Power, and the generation is not
7	A. I'm sorry. My apologies. "Hydro Rural sub-	7	of significant magnitude to warrant the
8	transmission is defined as all transmission	8	transmission being common.
9	and terminal station plant serving only Hydro	9	Q. And perhaps you could just read the
10	Rural rate classes." So it's consistent.	10	disposition at page 21 respecting Doyle/Port
11	Q. And is Hydro's conclusion and recommendation	11	aux Basque please?
12	of assignment of the GNP transmission to Hydro	12	A. The Doyle's/Port aux Basques. "Similar to the
13	Rural also consistent with that assignment	13	GNP, the transmissions assets of the
14	guideline?	14	Doyle/Port aux Basques system fall under the
15	A. We believe so, yes.	15	assignment guideline associated with the
16	Q. And that isn't expressed in the passage we	16	connection of a single customer, Newfoundland
17	just looked at, but that's another reason, is	17	Power, and remote generation or voltage
18	it not, for the assignment of the GNP	18	support equipment to the island grid. As
19	transmission to Hydro Rural? Is that fair?	19	well, like the GNP transmission assets, the
20	A. Yes, that's correct.	20	primary purpose of the Doyle's/Port aux
21	Q. Thank you. And just to close the loop on	21	Basques transmission assets is to provide
22	this, for the record, your approach with	22	service to Newfoundland Power customers on
23	respect to the transmission on the Doyle/Port	23	that radial system. This position is further
24	aux Basques section of the Island	24	supported in the previous Board decisions in
25	Interconnected System is pretty much the same	25	which these transmission assets were
	Page 95		Page 96
1	specifically assigned to Newfoundland Power.	1	there's not much before the Board on that
2	The generation assets also located on that	2	implication. Can I ask, Mr. O'Reilly, to turn
3	radial, while of benefit to all customers, are	3	up IC-345? And this IC, as I understand it,
4	not of sufficient magnitude, in Hydro's	4	asks for the identification of the costs in
5	opinion, to justify assignment of the	5	the test year 2004 Cost of Service for the GNP
6	transmission assets to common, given the	6	transmission line, which under Hydro's
7	dominant use of the transmission system in	7	recommendation is assigned to Hydro Rural.
8	serving that customer group. Therefore, on	8	Are you familiar with this RFI?
9	balance, Hydro's interpretation of the	9	A. Yes.
10	guidelines would result in a recommendation	10	Q. And this indicates the calculation of the
11	that the Doyle's/Port aux Basques transmission	11	average plant in service and average net book
12	assets be specifically assigned to	12	value for those assets, and puts them in the
13	Newfoundland Power."	13	range respectably of \$73,120,423 average plant
14	Q. And the Doyle/Port aux Basques generation is a	14	in service and \$58,950,414 for average net
15	magnitude similar to that of the GNP?	15	book value. Is that correct?
16	A. Yes, I believe it's 15.8 megawatts and GNP was	16	A. Yes.
17	15.1, I believe it is.	17	Q. And these reflect the asset values which
18	Q. I wanted to conclude on this area by	18	presently are assigned to Hydro Rural in the
19	discussing the implications of assignment of	19	2004 Cost of Service? Do I have that correct?
20	the GNP transmission line to common, and I	20	A. That would be my interpretation, yes.
21	appreciate that that is not Hydro's	21	Q. And if, in fact, the EES recommendation was to
		1.0.0	he followed by the Poard, the result would be
22	recommendation, but it is a recommendation	22	be followed by the Board, the result would be
23	that appears to flow from the Board's expert's	23	those costs being assigned to common, for the
			-

	Page 97		Page 98
11	(11:45 a.m.)	1	a copy of IC-180?
$\begin{vmatrix} 1\\2 \end{vmatrix}$	A. I would have to assume that that was	2	A. Yes, I have.
3	specifically forwouldn't include the	3	Q. You have it. Thank you, Mr. Haynes. What I
4	distribution, so yes, that would be the	4	understand this IC to relate to, in the 2001
5	correct answer, interpretation.	5	GRA, is the implications to the Industrial
6	Q. And I looked through the record on the weekend	6	Customers and Newfoundland Power of the change
7	to try to determine if I could gauge the	7	in the assignment of the 138 kV 66 kV
8	implications to the Industrial Customers of	8	transmission lines and associated terminal
9	that shift in cost assignment and I couldn't	9	station equipment connecting the GNP
10	find anything on the record. In fact, I think	10	generation from Hydro Rural to common. I
11	there was an RFI directed to EES which went	11	guess my first question is, that equipment
12	could not be responded to because there was	12	that's referenced, does that cover all of the
13	not enough on the record. I did want to take	13	GNP transmission equipment that you've
14	you to a document, IC-180 Revision 1, filed in	14	described in JRH-3?
15	the 2001 General Rate Application. It's a	15	A. I believe that to be the case, yes.
16	document that the clerk has distributed to	16	Q. Thank you. And in 2001, the cost implications
17	counsel earlier this morning, and I'm not sure	17	for the two customers were respectably, a
18	if the Board has the document. Ms. Newman,	18	decrease of \$2,000 in costs for Newfoundland
19	perhaps you could indicate to me whether or	19	Power and an increase to the Island Industrial
20	not that's the case?	20	Customers of \$1,458,000, and my question is
1	MS. NEWMAN:	21	whether or not you know if these figures
22	Q. Yes, it has been circulated, and we would	22	correctly reflect the implications for
23	identify it as Information Item No. 16.	23	Newfoundland Power and the Island Industrial
1	MR. SEVIOUR:	24	Customers for the 2004 test year, as opposed
25	Q. Okay. And has the witness been provided with	25	to the 2002 test year?
	Page 99		Page 100
1	A. I wouldn't be the best one to answer it, but	1	A. It could defer the need for a new peaking
2	subject to Mr. Banfield providing	2	plant or to address our LOLH, yes.
3	clarification, I doubt very much that the	3	Q. And my first question is a very general one,
4	numbers are identical, but I would suggest	4	Mr. Haynes. I'd like your reaction to this.
5	that the order of magnitude is approximately	5	Is there not an inconsistency in saying that
6	the same.	6	the Great Northern Peninsula generation is too
7	Q. Okay. I'm wondering as much as the EES	7	small to require GNP transmission to be
8	recommendation has come to the Board late and	8	specifically assigned, but it is large enough
9	there has been little evidence on this, if I	9	to be of substantial benefit to all customers
10	could have an undertaking to provide the	10	of the grid?
11	updated IC-180 for the current test year,	11	A. No, I don't think there's an inconsistency.
12	2004? (Undertaking)	12	It is 15 megawatts. It's, in the context of
13	A. We willI assume that time will permit it to	13	the GNP, it is, you know, aligns fairly well
14	be done. I'm not sure how long it would take,	14	with the GNP load or it's less than the actual
15	but that would be done by our rates and	15	peak, but with respect to the total
1	customer service people.	16	Interconnected plant that Newfoundland Hydro
16	customer service people.		· · ·
16 17	Q. Thank you, Mr. Haynes. Thank you, I'm going	17	has available, it still would affect theit
1		17 18	has available, it still would affect theit could have impact on the LOLH calculation, so
17	Q. Thank you, Mr. Haynes. Thank you, I'm going		
17 18	Q. Thank you, Mr. Haynes. Thank you, I'm going to move on to a discussion about generation.	18	could have impact on the LOLH calculation, so
17 18 19	Q. Thank you, Mr. Haynes. Thank you, I'm going to move on to a discussion about generation.I think we're finished with the transmission	18 19	could have impact on the LOLH calculation, so therefore, it is of meaningful value.
17 18 19 20	Q. Thank you, Mr. Haynes. Thank you, I'm going to move on to a discussion about generation.I think we're finished with the transmission for the moment, Mr. Haynes. I understand the	18 19 20	could have impact on the LOLH calculation, so therefore, it is of meaningful value.Q. So is it the impact on the LOLH criterion that
17 18 19 20 21	Q. Thank you, Mr. Haynes. Thank you, I'm going to move on to a discussion about generation.I think we're finished with the transmission for the moment, Mr. Haynes. I understand the basis for your recommendation that the GNP	18 19 20 21	could have impact on the LOLH calculation, so therefore, it is of meaningful value.Q. So is it the impact on the LOLH criterion that allows you to conclude that within the
 17 18 19 20 21 22 	Q. Thank you, Mr. Haynes. Thank you, I'm going to move on to a discussion about generation.I think we're finished with the transmission for the moment, Mr. Haynes. I understand the basis for your recommendation that the GNP generation be assigned common because it	18 19 20 21 22	could have impact on the LOLH calculation, so therefore, it is of meaningful value.Q. So is it the impact on the LOLH criterion that allows you to conclude that within the guideline, the GNP generation is of

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12 Poile, which had been very small systems, that 12 A. But that case is not exactly the same. For 13 we would actually take that plant out of 13 instance, if we were interconnecting, you 14 service because i's very small. The 14 know, one of the smaller isolated areas. That 15 operating maintenance costs are significantly 15 was a five-megawatt steam plant that a going were just 16 high, and the physical location of staff would 16 significant operating and maintenance expense 18 back, you know, in service in less than an 18 not there. As well, if you were maintaining 19 hour, for instance. 19 it only to meet your LOLH, you just-you don't 21 104? And my interest is really in, I think, 21 instance, Holyrood takes two days to get a 22 net second page of the document, which I 22 and get igoing. So it would not have the 23 understand to be an application by 23 and get igoing. So it would not have the 24 Newfoundland and Labrador Hydro to 25 abandoned. Page 104 25 A. It wasn't there. 2 percent of the forecast peak for the area 3 through 2008, an		ober 25, 2005 Mul	11-1 až	ge NL Hydro's 2003 General Rate Application
2 Hydro have a practice. Mr. Haynes, with 2 with that application? 3 respect to the decommissioning of thermal 3 A. Not thoroughly familiar, but I am familiar. 4 generation on an Isolated System which is 4 Q. Yes. And this is an application in 1999, at I 7 Most of the systems that we interconnect, with 7 relation to the decommissioning of those 7 Most of the systems and the practice has been such, 7 merstand your general evidence to be, that 8 understand your general evidence to be, that 10 understand your general evidence to be, that 9 generating capacity, are usually very, very 9 wouldn't be inconsistent with the past 10 you know, for instance, Moskstown and La 12 A But that case is not exactly the same. For 13 we would actually take that plant out of 13 instance, if we were interconnecting, you 14 service instance. 19 you know, in service in less than an 18 not there. As well, if you were mainting 15 operating maintenance costs are significantly 15 and the economics to keep that going were just 16 holy, for instance. 19 understand to be an application		Page 101		Page 102
3 respect to the decommissioning of thermal 3 A Not thoroughly familiar, but 1 am familiar. 4 generation on an Isolated System which is 5 Subsequently interconnected? 6 A. Typically, the economic benefit, I guess. 6 relation to the decommissioning of those 7 Most of the systems that we interconnect, with 7 relation to the decommissioning of those 9 generating capacity, are usually very, very 9 wouldn't be inconsistent with the past 10 small systems, that 1 interconnected? 12 Polic, which hads be as been such, 10 practice in other isolated systems which were 13 we would actually take that plant out of 13 a. But that case is not exactly the same. For 13 we service because it's very small. The 14 know, one of the smaller isolated areas. That 16 high, and the physical location of staff would 16 significant operating maintenance expense 18 back, you know, in service in less than an 18 not there. As well, if you were maintaining 19 hour, for instance. 19 it only to act your LOLH, you justyou don't 21 the second page of the document, which 1	1 N	AR. SEVIOUR:	1	diesel generating stations. Are you familiar
4 generation on an Isolated System which is 4 Q. Yes. And this is an application in 1999, as 1 6 A. Typically, the economic benefit, I guess. 5 understand it, that was made by Hydro in 7 Most of the systems that we interconnect, with 7 relation to the decommissioning of those 9 generating capacity, are usually very, very 9 wouldn't be inconsistent with the past 9 generating capacity, are usually very, very 9 motow, for instance, Monkstown and La 12 Poile, which had been very small systems, that 11 instance, if we were interconnecting, you 14 service because it's very small. The 14 know, one of the smaller isolated areas. That 15 operating maintenance costs are significantly 15 was a five-megavatt steam plant which had a 16 high, and the physical location of staff would 16 significant operating and maintenance expense 17 not be as amiable to getting the equipment 17 not be as aniable to getting the equipment 17 18 back, you know, in service in less than an 18 not there. As well, if you were maintaining 19 hour, for instance. 1047 and the scononislo to kee that going were	2	Hydro have a practice, Mr. Haynes, with	2	with that application?
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24 generation at St. Anthony as a backup 24 unnecessary?	22	-	22	
	23		23	-
25 generation for this area. The capacity of 25 A. That was our view.	24		24	•
- •	25	generation for this area. The capacity of	25	A. That was our view.

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1 N	IR. SEVIOUR:	1	P.U. 7 for the moment, and page 113, if we
2	Q. Thank you. And the other thing I'm getting	2	could come to that? I want to look at the
3	from the paragraph 6 is that St. Anthony was	3	bolded section in that page. The last
4	perceived by Hydro to be backup generation for	4	sentence, starting at the middle of the
5	the area, at that time. Is that also a fair	5	paragraph, says "the Board will require NLH to
6	conclusion?	6	undertake the necessary studies and analyses
7	A. That was a part of the rationale for retaining	7	to support the value of the interconnection of
8	the diesel in the area, because a long radial	8	the GNP assets to the grid, including:" and I
9	system.	9	broke this down in two ways, "including: an
10	Q. And take a moment, if you wish to, but when I	10	assessment of the impacts on system
11	read the application, I see no reference in	11	reliability" which I think we've talked about,
12	the application, again trying to understand	12	"and number two, the conditions and operating
13	what was in the mind of Hydro at the time, to	13	scenarios under which the GNP generation would
14	a need to retain either of the diesel plants	14	be of benefit to the operation of the Island
15	as either system reserve or for peaking	15	Interconnected System." And I think we can go
16	requirements for system capability.	16	back to JRH-3 for a moment, if we may, page
17	A. I haven't read that report in some time, so I-	17	10, and these criteria that we find on page
18	-if it's not there, I assume that it wasn't	18	10, the planning criteria relating to the
19	there.	19	energy and capacity standards. These are
20	Q. You know, no games.	20	essentially the reliability part of that
21	A. I have not reviewed it.	21	analysis that the Board directed in 2002?
22	Q. I've read the application. I don't see any	22	A. That is a system reliability. The capacity
23	reference to that.	23	would be the key consideration for the diesel
24	A. I accept that.	24	generation, 2.8 hours per year.
25	Q. Thank you. Mr. O'Reilly, could we turn up	25	Q. And these are part of the reliability
	Page 107		Page 108
1	analyses, as I understand it. Is that	1	page, page 12, and this shows the scenarios
2	correct?	2	respecting the base case, which is the current
3	A. That would be part of that exercise, yes.	3	system, I think, in its forward-looking, you
4	Q. And if I can take you justI don't want to	4	know, capacities for both demand and energy
5	spend much time on material that was covered	5	less the various radial systems we're talking
6	already, but I just want to set up a couple of	6	about?
7	inquiries I have. Table 3.2 or 3-2, which is	7	A. That's correct.
8	at page 11. We've seen this a couple of	8	Q. And focusing on the GNP, this would reflect
9	times. This is the same as your Table 8 in	9	that if you took the existing plus committed
10	your principal evidence, I think.	10	system less the GNP, which is the third column
11	A. That's correct.	11	of the table, out of the mix that your
12	Q. And this reflects that there will be a	12	capacity issue, from the base case situation,
13	capacity issue in 2011 and an energy issue in	13	would advance from 2011 to 2009 without GNP?
14	2009. Is that correct?	14	A. That's correct.
15	A. That's correct.	15	Q. And your energy balance concern would remain
16	Q. I think you've said elsewhere in your evidence	16	at 2009, the concern? Is that correct?
17	that the energy balance issue in 2009 is not	17	A. The actual table does not present the energy
18	of significant enough consequence to be	18	issue for that particular case. The energy
19	concerned about and that, in fact, there would	19	number of 61 is the GNP, Doyle's and Port aux
20	be no need to add any capacity before 2010.	20	Basques removed.
21	Is that correct?	21	Q. So we must assume that the energy case is also
22 (12:00 p.m.)	22	still a 2009 issue?
	A. For 10 gigawatt hours, that would be our	23	A. I would suspect it hasn't changed.
23			· ·
23 24	approach.	24	Q. And I think that there is aI won't turn it

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	Page 113		Page 114
1 1	MR. HAYNES:	1	Q. And apart from the answer you just gave us
2	the Great Norther Peninsula system was based	2	with respect to the Pre-Interconnection Study,
3	on the net present value analysis and was, in	3	do you have any other reaction to this passage
4	our view, the right thing to do. It had	4	and this position of our experts?
5	economic benefits to the overall operation of	5	A. I think the word quality may beI don't think
6	the system.	6	it affects the quality of service, i.e. the
7	Q. And I think I understand that, but perhaps I	7	reliability that we provide. It may obviously
8	can get you to move on in the passage at line	8	impact the costing, as would the big driver in
9	2, if you could continue on in the discussion	9	2012. The fact that we go from a figure of
10	from Intergroup.	10	2.4 to 7.4 and of an energy balance of 28 to
11	A. "But for this radial line being	11	minus 415 is largely driven by another
12	interconnected, the Island LOLH would improve	12	potential Industrial Customer, that's where
13	to .7 hours per year, in the test year, from	13	the Voisey's Bay load forecast comes into
14	1.1 hours per year in Haynes' Table 8 and the	14	play.
15	energy balance likewise would improve. Also	15	Q. Thank you, Mr. Haynes, I wanted to give you
16	notable the requirements for future generation	16	the opportunity to respond to that. The next
17	additions to the Island Interconnected grid	17	question I had relates to your discussion of
18	would be delayed to 2012 from the currently	18	the valuation of the generation, the remote
19	forecast 2010. On balance, this type of	19	generation and that's found at pages 13, 14 of
20	information indicates a reason for concern	20	JRH 3. And in this passage of your report, I
21	from the IC respective that cost for the GNP	21	understand that you're trying to ascribe some
22	assets will be assigned to the IC Cost of	22	dollar value to the generation that's under
23	Service, even though these costs only arise as	23	discussion, is that correct? The estimated
24	a result of a project that has a net adverse	24	value of generation assets?
25	impact on the IC service quality.	25	A. Well, yes, what we had indicated it was
	Page 115		Page 116
1	impossible to put a dollar value specifically	1	peaking capacity requirements by 7 years, from
2	on thethose assets bring to the	2	2011 to 2004. This implies a simple
3	Interconnected System, but we looked for an	3	evaluation of the generation assets of some
4	indication of the value they bring to the	4	45.5 million. Due to the avoidance of
5	costs further on, yes.	5	capacity additions in that time frame, it
6	Q. I wanted to take you to the bottom paragraph	6	follows that the presence of these assets on a
7	starting "However", and could you read that	7	system has had a similar impact on past
8	for the record please?	8	decisions."
9	A. "However, it is possible to get an indication	9	Q. And my purpose again in taking you to that is
10	of the value that these assets bring to the	10	to give you an opportunity to react to the
11	Island Interconnected System through an	11	comments of our experts, the InterGroup people
12	examination of the costs that would be	12	at pages 33 to 34 of their report, and
13	incurred if Hydro were required to purchase a	13	starting at line 35, page 33, they have a
14	similar amount of peaking capacity today.	14	response and discuss the analysis that's
15	Based on cost estimates for a new simply cycle	15	foundthat we just looked at. And perhaps
16	combustion turbine, the levelized annual cost	16	you could read commencing at line 35?
17	of new peaking capacity, coming around line of	17	A. "The reasoning raises two serious concerns.
18	2004 is in the order of \$100.00 per kilowatt	18	First there is no basis to suggest that any
	per year. This yields an annual evaluation of	19	costs would have to be incurred to replace
19	approximately 6.5 million per year, for the	20	this generation in 2004 if it were not already
19 20	reproduction of the four, for the	1	
1	total of 64.5 megawatts generation assets on a	21	in service. As with the GNP generation, the
20		21 22	In service. As with the GNP generation, the Island Interconnected LOLH only increases from
20 21	total of 64.5 megawatts generation assets on a		
20 21 22	total of 64.5 megawatts generation assets on a GNP, Doyle's and Burin Peninsula radial	22	Island Interconnected LOLH only increases from
20 21 22 23	total of 64.5 megawatts generation assets on a GNP, Doyle's and Burin Peninsula radial systems. As indicated in Table 3.3, the	22 23	Island Interconnected LOLH only increases from 1.1 hours per year to 1.4 hours per year.

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1 N	AR. HAYNES:	1	served a useful and valuable purpose, but in
2	the 14.7 megawatts of capacity would have to	2	the context of the generation that we have
3	be replaced at a cost of 1.47 million to the	3	available right now, which is already
4	system is incorrect. Hydro has previously	4	interconnected which is used and useful, there
5	contracted with Abitibi Stephenville for 46	5	was no reason to consider extension or
6	megawatts of capacity over three times the	6	entering a new contract with Interruptible B
7	capacity made available to the GNP generation,	7	products from any sources.
8	for a cost of less than 1.47 million per year,	8	(12:15 p.m.)
9	for essentially the same function."	9	Q. Thank you. I wanted to turn to the second
10	Q. Now I'll get you to stop there. And my	10	part of, I guess, the test or the study
11	purpose in taking you to this was to give you	11	assignment that the Board made in 2002 in
12	an opportunity to react to that passage, and	12	P.U.7 relating to the conditions and operating
13	in particular, the ascertain made by	12	scenarios under which the GNP generation would
14	InterGroup that the availability of	14	give benefit to the operation of the Island
15	Interruptible B hasn't been considered in your	15	Interconnected System. We looked at that a
	analysis and how do you respond to that?	15	moment ago from P.U. 7, remember they wanted
16 17			· ·
	A. No, it was not considered, the Interruptible B	17	the reliability assessment and also an
18	contract was entered because it was a	18	assessment of the conditions and operations
19	significant number of years between LOLH	19	operating scenarios. And I understand and I
20	criteria violation, if you will, and the	20	won't cover the ground in any detail, that
21	energy balance. It's also not the same	21	there really are two examples that Hydro
22	product. The Interruptible B had severe	22	cites, one of an actual commissioning and one
23	limitations on the months it was available, on	23	of a testing of the GNP to assist in system
24	the hours of the day and the notice period and	24	management issues in the evidence that's
25	so, they are notit was a useful product, it	25	before us, prior to the filing of this
	Page 11)	Page 120
1	Application in any event. Am I right that	1	the load on the Island Interconnected System
2	there's two incidents, one is a testing	2	reached an all time peak. All hydraulic
3	incident and the other is an actual	3	facilities in the three units at Holyrood were
4	commissioning incident?	4	at near peak capacity. A loss of any of these
5	A. There is, when I see it on that, I don't	5	generators would require an operation of
6	recall the number offhand, but it does	6	standby generation, including the GNP diesels.
7	indicate that we have used it for the purpose	7	In preparation for such an event, the St.
8	that we intended; however, it is tested on	8	Anthony diesel plant was tested to ensure its
9	occasion to ensure it's available and we have	9	availability. The plant operated for 110
10	used it since, in 2003.	10	minutes, during which time the approximately
11	Q. Now I'll take you to IC-87 and just to	11	8536 kilowatt hours of energy was supplied to
12	copperfast on this point, I think we looked at	12	the system. On January 30th, 2003, the St.
13	this earlier, but starting at line 10?	13	Anthony diesel plant was brought on line to
14	A. Yes.	14	aid in a system restoration following the
15	Q. Do you have that sir? Line 10, as I	15	failure of a lightening arrestor at Oxen Pond
16	understand it, this describes in perhaps the	16	and a subsequent trip of the generators at
17	greatest detail in the material before the	17	Holyrood. The plant operated for 75 minutes,
111	Board, the incidents of use of GNP generation.	18	providing approximately 6150 kilowatt hours of
18			energy to the Island Interconnected System."
18 19	-	10	
19	Perhaps you can just read that, starting at	19	
19 20	Perhaps you can just read that, starting at line 10 to the end of the IC, so that we have	20	Q. And these are incidents that each occurred
19 20 21	Perhaps you can just read that, starting at line 10 to the end of the IC, so that we have it in its greatest detail?	20 21	Q. And these are incidents that each occurred prior to the commissioning of Granite Canal,
19 20 21 22	Perhaps you can just read that, starting at line 10 to the end of the IC, so that we have it in its greatest detail?A. "The St. Anthony and Roddickton Diesel Units	20 21 22	Q. And these are incidents that each occurred prior to the commissioning of Granite Canal, is that correct?
19 20 21 22 23	Perhaps you can just read that, starting at line 10 to the end of the IC, so that we have it in its greatest detail?A. "The St. Anthony and Roddickton Diesel Units operated for only planned and forced	20 21 22 23	Q. And these are incidents that each occurred prior to the commissioning of Granite Canal, is that correct?A. Yes, that's correct.
19 20 21 22	Perhaps you can just read that, starting at line 10 to the end of the IC, so that we have it in its greatest detail?A. "The St. Anthony and Roddickton Diesel Units	20 21 22	Q. And these are incidents that each occurred prior to the commissioning of Granite Canal, is that correct?

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1 1	MR. SEVIOUR:	1	basically we would have to take everything in
2	assets for generation? In similar	2	our arsenal to actually meet that load at that
3	circumstances, had Granite Canal been	3	time; particularly when you lose 466
4	commissioned before the incident described?	4	megawatts, we don't have that reserve and it's
5	A. That's a difficult question to answer because	5	not an event that weI shouldn't say we don't
6	it all depends on the situation. We have used	6	plan for it, we obviously do the best we can,
7	the GNP generation since Granite Canal and the	7	but it's not an event that would be a common
8	NUGS came on line to fulfil that role of	8	occurrence. And on that occasion, I would
9	trying to get our customer's load back.	9	suggest that Granite Canal, the NUGS, all the
10	Q. And I want to come to that in a moment, we'll	10	gas turbines, all diesels would have been
11	talk about the September 18, 2003 incident and	11	called into play because of the nature of the-
12	I fully accept that that's the evidence before	12	-just the volume of megawatts that we actually
13	the Board, but what I'm trying to engage for	13	lost from the system.
14	the Board's assistance is your view, as an	14	Q. What was the volume and megawatts?
15	experienced production person with Hydro, and	15	A. Well the particular item indicated that the
16	what impact, if any, you feel that Granite	16	three plants in Holyrood at near peak
17	Canal's availability may have had on the	17	capacity, which would have been approximately
18	circumstances described in January 31, 2002,	18	465, 466 megawatts, and if they wereI
19	January 30, 2003?	19	suggest they weren't necessarily on the pins,
20	A. It would all depend on the load situation at	20	but you were at, at least 460 megawatts, 450,
21	the time and what particular units were out of	21	460 megawatts that we had actually lost.
22	service. When, in that particular event, in	22	Q. And my colleague, Mr. Hutchings, asked you
23	January 30th, we basically lost the three	23	some questions about the September 18th, 2003
24	machines in Holyrood, I believe, in which case	24	incidents and I'm not going to take you back
25	that's Granite Canal, the gas turbines,	25	through that, but the one thing I would like
	Page 123		Page 124
1	to get from you is an undertaking to provide	1	things, any time that we have a transmission
2	further particulars as to that particular	2	line outage or that we are responding to a,
3	event and the requirement of engaging the GNP	3	you know, a storm, wind damage or an outage,
4	transmission at that particular event. I'd	4	we would actually bring those into play for
5	like to know the time at which the generation	5	local support of load, as opposed to
6	supply occurred, the duration for which that	6	interconnected.
7	generation supply occurred, the relevant	7	Q. And could you provide that updated figure
8	capacity and energy that was engaged to assist	8	please (Undertaking)?
9	at that time. (Undertaking). And I think	9	A. Yes.
10	that's relevant for the Board to know. And	10	Q. Thank you. Mr. Haynes, is it fair to conclude
11	so, Mr. Haynes, is that something that you can	11	from this review that the principle role of
12	get for me?	12	the GNP generation has been for back up or
13	A. That information can be made available, yes.	13	local support in the GNP area?
14	Q. Thank you, sir. To finish up in this area, I	14	A. It has served that function, as well as serve
15	wanted to confirm that I think as it is before	15	the function of the Island Interconnected
16	the Board in IC-235, that the Great Northern	16	System by its calculation of the LOLH. It
17	Peninsula generation has, apart from the three	17	serves both purposes.
18	examples we have just spoken about, operated	18	Q. And it served the Island's specifically, the
19	112 times for local load support since 1996?	19	Island's system on three particular incidents
20	Is that what I take from IC-235?	20	that we've canvassed in some detail and 112
21	A. Yes, that's correct.	21	plus incidences of the local support, as I
22	Q. Thank you, sir. And do you know if thatthis	22	understand the IC I just took you to, and my
23	is an IC that was filed some months ago, do	23	question is, is it fair to characterize the
24	you know if that figure has changed?	24	GNP generation's function and service
25	A. In all likelihood it has changed by a few	25	principally as one of backup to the GNP area,

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	Page 125		Page 126
11	MR. SEVIOUR:	1	to Newfoundland Power?
2	as opposed to service to the grid?	2	A. Yes, if we requestI'm sure that Newfoundland
3	A. It has served that role because of its	3	Power use it many other times for their own,
4	location on the radial system, but it still	4	you know, reliability purposes in their region
5	contributes to the overall LOLH and that part	5	when they're doing work, but whenever we
6	of that calculation, but you're -	6	request Newfoundland Power to run thermal
7	Q. So is it your evidence, sir, that there is an	7	generation, we do pay for that use.
8	equal benefit to the grid and to the local	8	Q. I wanted to speak briefly about the cost
9	area based on the actual service of the GNP	9	implications in this area, Mr. Haynes, and I
10	generation since '96?	10	wanted to take you to IC-277. This relates to
11	A. It's our evidence that the GNP generation	11	the total of 1.4 million costs for Hydro's
12	serves a valid role in meeting our LOLH	12	diesel generation on the Island Interconnected
13	criteria and as well, it also serves the local	13	System for the 2004 Cost of Service. And in
14	residents because of the long radial line.	14	reading IC-277, together with IC-278, I have
15	Q. I think we'll let the numbers deal with that.	15	concluded and I would ask you to confirm, that
16	I just wanted to finish this area by taking	16	the 1.4 million dollars related to the Hydro
17	you to IC-188, and as I understand it, Mr.	17	diesel generation, relates exclusively to the
18	Haynes, this table that we see on IC-88 (sic.)	18	GNP diesel generators? Can you help me on
19	identifies all incidents from 1996 when	19	that?
20	Newfoundland Power generation was operated by	20	A. Yes, that appears to be correct. We do not
21	Hydro's request for support of a grid, is that	21	have diesel generation in other locations of
22	correct?	22	any consequence, other than the GNP. I
23	A. That's correct.	23	believe that's in Schedule 2.
24	Q. And these are incidences in which Hydro has	24	Q. And so that is the cost implications of the
25	actually paid for peaking generation support	25	plant that's in service for GNP generation,
	Page 127		Page 128
1	C C		1 450 120
	excluding the mini hydro at Roddickton, is	1	-
	excluding the mini hydro at Roddickton, is that correct?	1 2	rural deficit. If it's assigned rural, then
2	that correct?	2	rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be
2 3	that correct? A. That would be theyes, that's correct.	2 3	rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be a part of a deficit and Newfoundland Power
2 3 4	that correct? A. That would be theyes, that's correct. Q. And to close the loop on the cost	2 3 4	rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be a part of a deficit and Newfoundland Power customers would pay through the deficit, which
2 3 4 5	that correct?A. That would be theyes, that's correct.Q. And to close the loop on the cost implications, can I get you to go to IC-233,	2 3 4 5	rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be a part of a deficit and Newfoundland Power customers would pay through the deficit, which is says there on line 9.
2 3 4 5 6	that correct?A. That would be theyes, that's correct.Q. And to close the loop on the cost implications, can I get you to go to IC-233, and I think that as I understand this IC,	2 3 4 5 6	rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be a part of a deficit and Newfoundland Power customers would pay through the deficit, which is says there on line 9. Q. Because Newfoundland Power has got to pay for
2 3 4 5 6 7	that correct?A. That would be theyes, that's correct.Q. And to close the loop on the cost implications, can I get you to go to IC-233, and I think that as I understand this IC, which has directed the initial costs to the	2 3 4 5 6 7	rural deficit. If it's assigned rural, thenthe cost of the operation of the GNP would bea part of a deficit and Newfoundland Powercustomers would pay through the deficit, whichis says there on line 9.Q. Because Newfoundland Power has got to pay forthis whether or not it's assigned to Hydro
2 3 4 5 6 7 8	 that correct? A. That would be theyes, that's correct. Q. And to close the loop on the cost implications, can I get you to go to IC-233, and I think that as I understand this IC, which has directed the initial costs to the Industrial Customers and the implications for 	2 3 4 5 6 7 8	rural deficit. If it's assigned rural, thenthe cost of the operation of the GNP would bea part of a deficit and Newfoundland Powercustomers would pay through the deficit, whichis says there on line 9.Q. Because Newfoundland Power has got to pay forthis whether or not it's assigned to Hydrorural or to common?
2 3 4 5 6 7 8 9	 that correct? A. That would be theyes, that's correct. Q. And to close the loop on the cost implications, can I get you to go to IC-233, and I think that as I understand this IC, which has directed the initial costs to the Industrial Customers and the implications for Newfoundland Power, the assignment of GNP 	2 3 4 5 6 7 8 9	rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be a part of a deficit and Newfoundland Power customers would pay through the deficit, which is says there on line 9.Q. Because Newfoundland Power has got to pay for this whether or not it's assigned to Hydro rural or to common?A. Newfoundland customers will pay in either
2 3 4 5 6 7 8 9 10	 that correct? A. That would be theyes, that's correct. Q. And to close the loop on the cost implications, can I get you to go to IC-233, and I think that as I understand this IC, which has directed the initial costs to the Industrial Customers and the implications for Newfoundland Power, the assignment of GNP generating assets to common results in an 	2 3 4 5 6 7 8 9 10	rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be a part of a deficit and Newfoundland Power customers would pay through the deficit, which is says there on line 9.Q. Because Newfoundland Power has got to pay for this whether or not it's assigned to Hydro rural or to common?A. Newfoundland customers will pay in either case, yes, Newfoundland Power customers.
2 3 4 5 6 7 8 9 10 11	 that correct? A. That would be theyes, that's correct. Q. And to close the loop on the cost implications, can I get you to go to IC-233, and I think that as I understand this IC, which has directed the initial costs to the Industrial Customers and the implications for Newfoundland Power, the assignment of GNP generating assets to common results in an increase to Newfoundland Power of \$11,830.00 	2 3 4 5 6 7 8 9 10 11	 rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be a part of a deficit and Newfoundland Power customers would pay through the deficit, which is says there on line 9. Q. Because Newfoundland Power has got to pay for this whether or not it's assigned to Hydro rural or to common? A. Newfoundland customers will pay in either case, yes, Newfoundland Power customers. Q. Mr. Haynes, can you confirm that the GNP
2 3 4 5 6 7 8 9 10 11 12	 that correct? A. That would be theyes, that's correct. Q. And to close the loop on the cost implications, can I get you to go to IC-233, and I think that as I understand this IC, which has directed the initial costs to the Industrial Customers and the implications for Newfoundland Power, the assignment of GNP generating assets to common results in an increase to Newfoundland Power of \$11,830.00 and to the Industrial Customers of \$191,136.00 	2 3 4 5 6 7 8 9 10 11 12	 rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be a part of a deficit and Newfoundland Power customers would pay through the deficit, which is says there on line 9. Q. Because Newfoundland Power has got to pay for this whether or not it's assigned to Hydro rural or to common? A. Newfoundland customers will pay in either case, yes, Newfoundland Power customers. Q. Mr. Haynes, can you confirm that the GNP generation is insufficient to satisfy the full
2 3 4 5 6 7 8 9 10 11 12 13	 that correct? A. That would be theyes, that's correct. Q. And to close the loop on the cost implications, can I get you to go to IC-233, and I think that as I understand this IC, which has directed the initial costs to the Industrial Customers and the implications for Newfoundland Power, the assignment of GNP generating assets to common results in an increase to Newfoundland Power of \$11,830.00 and to the Industrial Customers of \$191,136.00 after rural deficit and revenue credit 	2 3 4 5 6 7 8 9 10 11 12 13	 rural deficit. If it's assigned rural, then the cost of the operation of the GNP would be a part of a deficit and Newfoundland Power customers would pay through the deficit, which is says there on line 9. Q. Because Newfoundland Power has got to pay for this whether or not it's assigned to Hydro rural or to common? A. Newfoundland customers will pay in either case, yes, Newfoundland Power customers. Q. Mr. Haynes, can you confirm that the GNP generation is insufficient to satisfy the full GNP load in normal operating conditions?
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	Page 129 Page 130
1 MR. SEVIOUR:	1 generating facilities at the boot, the foot of
2 talking about the Burin transmission line.	2 the peninsula, is that what we're seeing on
3 And I think that your recommendations are th	at 3 the map?
4 the Burin transmission lines, unlike the	4 A. That's correct. The hydro stations and their
5 Doyle's/Port aux Basques and the GNP	5 gas turbine.
6 transmission facilities are to be assigned to	6 Q. Now, as I understand the evidence, the
7 common?	7 transmission line 219 is a newer transmission
8 A. Yes, that is correct, as they are now.	8 line, is that correct?
9 Q. Now, there are no Industrial Customers on the	9 A. Yes, that's correct.
10 Burin Peninsula, is that correct?	10 Q. And in terms of the relative valuations for
11 A. There are no Industrial Customers, no.	11 Cost of Service purposes the transmission line
12 Q. The transmission facilities in question do not	12 219 is a much more expensive transmission line
13 serve any of the Industrial Customers of	13 than 212?
14 Hydro, is that correct?	A. I don't know the numbers, but I'm quite sure
15 A. No, they don't.	that you're correct, the newer line would be
16 Q. Can I get you to turn up page 6 of GRH-3 whic	
17 is the map showing the Burin lines? We see	17 Q. Okay. And I won't take you to it, but in IC-
18 them depicted in green running down from	
19 Sunnyside, transmission line 219 and 212?	19 transmission line 219 is shown to be
20 A. Yes.	20 \$14,199,201 versus transmission line 212 which
21 Q. And the Paradise River hydro station which is	• •
22 Hydro's 8 megawatt station is on transmission	
23 line 212?	23 A. Yes.
A. It's connected to 212.	24 Q. Now, can you confirm that transmission line
25 Q. And we see some additional Newfoundland P	ower 25 219 was not constructed to service the
	Page 131 Page 132
1 Paradise River plant?	1 there. I think -
2 A. No, it would not have been constructed	to 2 Q. And of the two transmission lines, are they
3 service the Paradise River plant, per se. I	
4 was constructed to service the Burin Peni	
5 system.	5 A. Well, you could say that they're served by
6 Q. And can you confirm that it's not a neces	-
7 transmission line to interconnect Paradi	5 7
8 River to the grid?	8 the power would actually go down rather than
9 A. Paradise River could have been connected	1
10 the grid without it, but it does serve a role	
11 It's an alternate route for Paradise River a	
12 the other generation on the Burin Peninsu	
13 But it would not have been required solely	
14 Paradise River.	14 are they supplied physically from distribution
15 Q. It certainly wouldn't have been constructed	
designed as a backup, for example, to be a	-
17 to supply Paradise River generation to t	-
18 grid?	18 intermediate station, so it would come off the
19 A. Not for 8 megawatts, no.	19 stations along TL-212.
	ral Q. So physically the Hydro rural customers are
20 Q. No. Andthank you. The Hydro ru	
21 customers on the Burin Peninsula, how ar	e they 21 supplied from 212, is that right?
customers on the Burin Peninsula, how arserved, which line services them?	e they21supplied from 212, is that right?22A. The shortest physical route to the system
 customers on the Burin Peninsula, how ar served, which line services them? A. They are served from, I believe it's 	e they 21 supplied from 212, is that right? 22 A. The shortest physical route to the system 23 would be through 212, yes.
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	Page 133		Page 134
1 1 1	IR. SEVIOUR:	1	serviced by the transmission lines. But in
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	basis for the proposed assignment to common of	2	your evidence of the 21st of October, and
3	the transmission lines because there are two	3	perhaps I can get Mr. O'Reilly to pull that up
4	reasons expressed in the evidence and in your	4	in fairness to you, I took it to be the
5	testimony before the Board, one being that the	5	generation concern which was the dominant
6	Burin transmission line service to customers,	6	driver of the recommendation. And I'm looking
7	that's Newfoundland Power and Hydro rural, the	7	at page 21 of your evidence of October 21,
8	second reason being that the transmission	8	2003. And here you're addressing questions
9	lines interconnect significant generation to	9	from Mr. Kelly about the assignment of the
10	the grid. Which is the principal driver of	10	transmission lines. And at line 19 of page 21
11	your recommendation?	11	you say, "So in the whole, we have proposed
12	A. Well, they are both drivers. The guidelines	12	that the Burin Peninsula, because it serves
13	that we had established was that if it serves	12	two customers, because it has significant
14	two customers, it would be common, two or more	14	generation, and significant generation I think
15	customers, it would be common. And we	15	is the key that it should be considered
16	interpret or we feel that the significant	16	common." And I want to, you know, ask you, do
17	generation on the Burin Peninsula is a lot	17	I take from that, that you see the
18	more significant, if you will, than the GNP in	18	interconnection of generation from the Burin
19	Doyle's/Port aux Basques. So it's a	19	Peninsula to be the principal reason for your
20	combination of both.	20	recommendation that generation on Burin be
21	Q. Okay. And my question arises partly because	21	assigned common?
22	in all of the evidence that's before this	22	A. It is a major reason why it should be
23	Board in dealing with the recommendation of	23	considered common, but you -
24	assignment to common the first reason cited is	24	Q. But you say here it's the key.
25	always the fact of two customers being	25	A. It is the key, it is 34, 35 megawatts and it
	Page 135		
1	C C	1	Page 136 O In terms of the cost implications here can I
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	is a major component of the generation that we	1	Q. In terms of the cost implications here can I
2	is a major component of the generation that we have available.	2	Q. In terms of the cost implications here can I take you to IC-228? And this deals with the
2 3	is a major component of the generation that we have available. Q. So the Board can look at that as the principal	2 3	Q. In terms of the cost implications here can I take you to IC-228? And this deals with the impacts on customer classes in the event that
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	Page 137		Page 138
	IR. SEVIOUR:	1	
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	rural customers and is also the	$\begin{vmatrix} 1\\2 \end{vmatrix}$	
3	interconnection for the Paradise River to the	3	
4	grid, if you took that away and you're left	4	
5	with just the transmission line 212 and the	5	
6	Newfoundland Power facilities on the boot of	6	
7	the peninsula, how is transmission line 219	7	
	with 212 removed in that scenario different		
8	from the Great Northern Peninsula circumstance	8	1
9		9	,
10	where you're got a long radial transmission	10	1 1
11	line and remote generation?	11	
12	A. Theone of the major things is the fact that	12	
13	the generation is so much more on the Burin	13	1
14	Peninsula. It's a significant amount of	14	-
15	generation, it's 34 megawatts today, possibly	15	
16	increasing by 25. I wouldone caveat there	16	•
17	is that given that you have a line going by,	17	
18	if we were to build Paradise River and there	18	
19	was a 138 kV line going by, we would have to	19	
20	actually cut into that line at significant	20	
21	additional cost as well, which would increase	21	
22	that component tobecause you would be going	22	
23	into a 138 kV line and have to establish a	23	1. v
24	terminal station and so on, which waswhich	24	
25	would add to the cost, if you will, of common	25	A. Well, it's a half percent of the energy
	Page 139		Page 140
1	deliveries are Hydros.	1	Page 140 that connection?
1 2	deliveries are Hydros. Q. And why does that situation remain as it is,	1 2	Page 140 that connection? A. Not currently. There was some discussion in
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1 1	MR. SEVIOUR:	1	would appear that this factor would only lead
2	plant which falls within the guideline to only	2	to a joint NP rural allocation with no basis
3	Newfoundland Power and Industrial Customers.	3	to assign any costs to IC." And I think in
4	Is that correct?	4	substance, what I take from the InterGroup
5	A. That's correct.	5	advisors, the Industrial Customers is saying,
6	Q. I wanted to give you the opportunity to react	6	well, look, why isn't the Burin transmission
7	to a comment of our experts which is found at	7	assigned as an NP Hydro rural sub-transmission
8	Tab H, page 3. And we're at pagepage H-3, I	8	allocation. Maybe you could respond to that?
9	think is at the bottom of the page, Mr.	9	A. There is no category as that at the moment,
10	O'Reilly, it's Tab H, page H-3. It's a couple	10	and I guess between that and the significant
11	ofit's some of the second or third last	11	generation, we don't really think it is
12	linelast page in the whole document. There	12	warranted to do that. I grant you, it is a
13	we go. Okay. Line 11 there on the page under	13	small part of the load, but the generation is
14	the heading "Burin Peninsula Transmission	14	alsocannot be discounted in that decision.
15	Allocation." And our experts are commenting	15	Q. So, Hydro has never considered a hydro NP sub-
16	on the proposed assignment to common of the	16	transmission allocation or assignment of plant
17	Burin transmission. Line 11 they say, "Hydro	17	guideline of this nature?
18	has proposed in Exhibit JRH-3 that the Burin	18	A. Not in recent time that I'm aware of, no.
19	Peninsula be assigned to common the same as in	19	Q. Just on the wind power project, Mr. Haynes,
20	P.U.7 (2002-03). However, the primary basis	20	can you confirm a couple of things for me?
21	for this recommended allocation appears to be	21	There currently is no power purchase
22	that the line services both NP and rural	22	agreement, is that correct?
23	customers. However, based on other tests for	23	A. We are negotiating a power purchase agreement.
24	NP-IC sub-transmission assets, given that the	24	Q. One has no yet been signed?
25	system makes up a material asset value, it	25	A. No.
	Page 143		Page 144
1	Q. And what about the financing for the project,	1	system.
2	is it place, do you know?	2	Q. Okay. So, it's not physically connected to TL
3	A. No, it would not be inactually, the	3	219 or TL 212?
4	financing would not bewe would not finance	4	A. Well, indirectly, but I'm not quite sure St.
5	the project. The project would be financed by	5	Lawrence would be a little bit further down
6	the proponent. We would just be a purchaser.	6	there.
7	Q. Yes, but to your knowledge, is there any	7	Q. My final question, Mr. Haynes, relates to your
8	financing in place for the proponent?	8	common plant assignment of the Coney Arm line
9	A. I really am not sure of what Newind has done	9	and substation which is, I think, shown on
10	to date. I would add that they, from the	10	Schedule 17 and I think that there's an IC
11	point of view of that, that they areone of	11	filed on this, IC 226. The question is well,
12	their partners is a corporation who has other	12	"why is the line and substation to Coney Arm
13	wind turbine projects. So, I would not	13	assigned as common"? And the answer is, "the
14	anticipate that being an issue from the point	14	line and substation to Coney Arm is assigned
15	of view of them being able to finance the	15	common because it is a source of station
16	particular job.	16	service for the Cat Arm generating station and
	Q. The physical interconnection for the wind	17	also connects the Rattle Brook generating
17			
18	power project, what transmission line will be	18	facility to the system".
18 19	power project, what transmission line will be utilized?	18 19	A. That's correct.
18	power project, what transmission line will be utilized?A. My understanding right now is that, well, it	19 20	A. That's correct.Q. Could you just elaborate on this? Has this
18 19 20 21	power project, what transmission line will be utilized?A. My understanding right now is that, well, it will be interconnected in St. Lawrence and the	19 20 21	A. That's correct.Q. Could you just elaborate on this? Has this been assigned common in the past cost of
18 19 20 21 22	power project, what transmission line will be utilized?A. My understanding right now is that, well, it will be interconnected in St. Lawrence and the cost of the interconnection facilities to the	19 20 21 22	A. That's correct.Q. Could you just elaborate on this? Has this been assigned common in the past cost of service?
18 19 20 21 22 23	power project, what transmission line will be utilized?A. My understanding right now is that, well, it will be interconnected in St. Lawrence and the cost of the interconnection facilities to the existing system will be a contribution to any	19 20 21 22 23	A. That's correct.Q. Could you just elaborate on this? Has this been assigned common in the past cost of service?A. Yes, I believe it has, prior to Rattle Brook
18 19 20 21 22	power project, what transmission line will be utilized?A. My understanding right now is that, well, it will be interconnected in St. Lawrence and the cost of the interconnection facilities to the	19 20 21 22	A. That's correct.Q. Could you just elaborate on this? Has this been assigned common in the past cost of service?

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I	age 145 Page 146
1 MR. HAYNES:	1 understood that I was going to get a
2 component or additionif you never had th	at, 2 recalculation of the number. I explained to
3 you would have had to have some, I don't	now 3 him at the time that I couldn't reproduce his
4 what the numbers are, but some significa	4 2996 number and he was going to recalculate it
5 cost at the Cat Arm station. It's also a	5 for me. So, I don't necessarily have to get
6 radial line. So, if the line is out of	6 that number right now, but just to note that
7 service, you still need diesels or power	7 that's outstanding.
8 supply to prevent freezing and et cetera.	8 GREENE, Q.C.:
9 Q. And I take it that this is not a change -	9 Q. We had planned to provide that in re-direct or
10 A. No, it's not a change.	10 Mr. Haynes can do it now, but we are in the
11 Q proposed from previous assignment of the	•
12 facility?	12 HUTCHINGS, Q.C.:
13 A. Yes, and the Rattle Brook would have h	
14 another rationale for that assignment.	14 direct, that's fine, Mr. Chair.
15 Q. Thank you, Mr. Haynes. Mr. Chairman, th	
16 the extent of my questions.	16 Q. Thank you. Good afternoon, Mr. Kennedy.
17 CHAIRMAN:	17 MR. KENNEDY:
18 Q. Thank you, Mr. Seviour. Thank you, N	
19 Haynes.	19 CHAIRMAN:
20 HUTCHINGS, Q.C.:	20 Q. There's some prospect, I think, discussed at
21 Q. Mr. Chairman, just before we conclude, th	
22 was a point that I asked Mr. Haynes on Tue	•
about the production capabilities of Holyro	
24 and while the word undertaking wasn't use	
25 page 156 of the transcript at line 19, I	25 MR. KENNEDY:
I	age 147 Page 148
1 Q. I would say that's slim and none we'll ge	
2 through and all done by 1:30. So, I was goi	ng 2 Labrador Hydro as a graduate engineer?
3 to propose that I just continue and then if	3 A. Yes.
4 I'm not finished, just break at 1:30, if	4 Q. Now, the next paragraph refers to the fact
5 that's okay.	5 that you held a number of positions with Hydro
6 CHAIRMAN:	6 including Instrumentation Engineer on the
7 Q. If you could concentrate on the slim part, it	7 construction of Holyrood No. 3 generating
8 would be good (Laughter). Thank you.	8 unit.
9 MR. KENNEDY:	9 A. Yes, that's correct.
10 Q. Yes, I always seem to get the woolly head	
11 witnesses and woolly headed participan	
12 (Laughter).	12 were put in service in 1970?
13 A. There's no wool on my head, Mr. Kenr	
14 (Laughter).	14 Q. And then there was a third unit that got added
15 Q. Mr. Haynes, I wanted to talk to you about	_
16 system planning, in general, as it falls under	
your division. And I thought that first I'd	17 Q. Okay. Well, you need to update your website
18 like to just have a chat with you about the	18 there. You website says 1974.
Holyrood generating station.	19 A. That may have been when it started, but it
20 A. Yes.	20 wasn't actually finished until-actually it
20 A. Tes. 21 Q. And I notice from your pre-filed evidence	
22 it indicates that, in your profile, that you	22 Q. That's what was confusing me with the 1977 and
 received your Bachelor of Engineering deg 	-
in 1977.	
1/4 III $17/7$.	
25 A. Yes, I did.	with No. 3. So, Mr. Haynes, when Holyrood wasoriginally constructed in 1970 with these

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	Page 149		Page 150
1 N	IR. KENNEDY:	1	A. Well, there would have been a couple of roles
2	initial two units, and I understand those two	2	actually. Primarily it would have, you know,
3	units were 150 megawatt units, correct?	3	there were probably three significant roles.
4	A. That's correct.	4	One of them would have been a backup, if you
5	Q. And then the third unit was a 150 megawatt	5	will, to the Avalon Peninsula where most of
6	unit?	6	the load was. And basically what hadwhen a
7	A. That's correct.	7	system was initiated, we built a Bay D'Espoir
8	Q. And then there was some changes made to your	8	generating station and there was two or three
9	system which bumped up the mega wattage	9	stages of construction for Bay D'Espoir and
10	available from each of those units, correct?	10	the Holyrood units 1 and 2 came along about
11	A. Only from numbers 1 and 2. Number 3 did not	11	the same time. And with the transmission
12	have the ability to be upgraded in the same	12	system being built across the wilderness area
13	sense as units 1 and 2.	13	and its reliability concerns et cetera, that
14	Q. Right, okay. So, originally, the total	14	that particular plant was back up, if you
15	capacity of Holyrood was 450 megawatts and now	15	will. It also provided some voltage control
16	its 490 megawatts?	16	capability, particularly in the winter. You
17	A. That's the gross rating, yes.	17	would not be able to ship, you know, all the
18	Q. Right, okay. So, when Holyrood was originally	18	megawatts from Bay D'Espoir to meet the Avalon
19	constructed and put into service in 1970 with	19	load without a lotsome voltage support
20	those 2 units, could you tell me from your	20	equipment on the east coast and that would
21	experience in coming on board in 1977, what	21	have also served that purpose. But I don't
22	the purpose of Holyrood was at that point in	22	know the actual justification or the criteria,
23	time? What role was it supposed to serve in	23	that was long before my day. And I don't
24	your system?	24	know what the rationale was, but those would
25 (1:00 p.m.)	25	be, you know, major considerations at the
	Page 151		Page 152
1	time, when they were building the grid and	1	know, a sustained and verythe .6 percent
2	anticipating a fair load growth, you know,	2	growth that we spoke about this morning would
3	expansion of electrical sales.	3	have been quite different at that particular
4	Q. So, are you aware then of when, at the time	4	time.
5	that the Holyrood generating station was	5	Q. So, I've seen it referred to sometimes,
6	brought on stream, was Hydro's firm energy	6	Holyrood that is, as, that originally
7	requirements, were they able to be met through	7	conceptualizes as a winter peaking plant in
8	just the hydraulic resources that Hydro had at	8	that Holyrood was used to provide your
9	the time? Are you aware whether Holyrood was	9	capacity requirements, if you will, during the
10	required in order to address that aspect of	10	winter months when the load is higher than
11	your system?	11	otherwise.
12	A. I'm not sure of the numbers, but I would	12	A. I think if you go back in time, the
13	suggest that the reserve that was in place	13	utilization of Holyrood in the summer months
14	when Bay D'Espoir and units No. 1 and 2 were	14	would have been a lot less than it is today.
15	commissioned would have been in excess of what	15	So, there may have beenyou know, the
16	it is today, but I don't know the numbers.	16	operators at the time would still optimize on
17	Q. But prior to units No. 1 and 2, was just the	17	fuel price and so on or they would shut down
18	hydraulic resources up to that point	18	at whatever occasion they could. The
19	sufficient to address your firm energy	19	operating history in the last number of years
20	requirement. Are you aware of that?	20	is that we operate the plant more hours per
21	A. I would suggest that it was, but there was a	21	year generally than, I would suggest, in the
22	tremendous growth. The mandate of	22	'70s or the '60s, mid '70s.
23	Newfoundland Hydro, when it was created, was	23	Q. Counsel for Newfoundland Power during his
		1	
24 25	to look after the rural ratification, to interconnect these systems so there was a, you	24 25	examination of yourself eluded to the fact that load patterns have changed and noticeably

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1	IR. KENNEDY:	1	requirements and we do what's called a hydro-
2	during the '90s. And I guess I took it from	2	thermal split. And so we basically do our
3	that that it's indicative then of the fact	3	load forecast and projections of Holyrood use
4	that Holyrood itself is being used differently	4	based on that. And that is, you know,
5	now, than it was in '80s and '70s?	5	basically the hydro-thermal split is not
6	A. Well, Holyrood is being used more in a sense	6	revised every week, but the load forecast and
7	that there are less summers months, there's	7	load requirements are revised every week and
8	weeks in the summer that we can shut down.	8	we try to optimize the megawatt levels of
9	But it's basically, where all our short term	9	Holyrood to be as high as we can while
10	marginal energy come from is Holyrood and it	10	adhering to our other system conditions. And
11	is required for capacity in the winter.	11	if we get an influx of rain, then we won't
12	Q. Sure. And I understood that, if I gather	12	shut Holyrood down because we think it's a day
13	correctly, that Holyrood, in a way almost uses	13	or two, but if we see a week or a period of
14	your base plant now, that itexcept for this	14	time that we can shut it down, then we will do
15	duration during the summer that it's used to	15	that.
16	provide your base load for the duration of the	16	Q. During the winter period, just take for
17	year.	17	instance, as I understand it, you would
18	A. It's a key component of a system, yes.	18	normally operate Holyrood at as close to full
19	Q. So, in the case of your Hydro resources, for	19	capacity as you can?
20	instance, you referred to the fact that you	20	A. We would make it as high as we can while
21	use your hydraulic produced product in order	21	looking at the overall economics, yes.
22	to address capacity constraints and that	22	Q. Sure. And that the problem, as you said, is
23	Holyrood itself is used to produced energy.	23	that if you run a system like Holyrood to the
24	A. When we do the load forecast, for instance,	24	pins, as you described it, that it doesn't
25	for 2004, we look at our total energy	25	provide much leeway to address further
	for 2001, we look at our total energy	25	provide inden ice way to address further
	D 155		D 150
	Page 155		Page 156
1	capacity requirements or as you put it,	1	Q. Okay. Let's go to, let's take the example of
2	capacity requirements or as you put it, voltage issues that may arise as a result of	1 2	Q. Okay. Let's go to, let's take the example of a run in the river system. A run in the river
2 3	capacity requirements or as you put it, voltage issues that may arise as a result of that, correct?	1 2 3	Q. Okay. Let's go to, let's take the example of a run in the river system. A run in the river is pure energy, no capacity.
2 3 4	capacity requirements or as you put it, voltage issues that may arise as a result of that, correct?A. Yes, and frequency regulation, yes.	1 2 3 4	Q. Okay. Let's go to, let's take the example of a run in the river system. A run in the river is pure energy, no capacity.A. Well, there is some capacity.
2 3 4 5	capacity requirements or as you put it, voltage issues that may arise as a result of that, correct?A. Yes, and frequency regulation, yes.Q. And so that aspect of maintaining your system	1 2 3 4 5	Q. Okay. Let's go to, let's take the example of a run in the river system. A run in the river is pure energy, no capacity.A. Well, there is some capacity.Q. Marginal or minimal amount of capacity.
2 3 4 5 6	capacity requirements or as you put it, voltage issues that may arise as a result of that, correct?A. Yes, and frequency regulation, yes.Q. And so that aspect of maintaining your system then shifts over to your hydraulic capacity.	1 2 3 4 5 6	Q. Okay. Let's go to, let's take the example of a run in the river system. A run in the river is pure energy, no capacity.A. Well, there is some capacity.Q. Marginal or minimal amount of capacity.A. Depending on the size of the plant, it all
2 3 4 5 6 7	capacity requirements or as you put it, voltage issues that may arise as a result of that, correct?A. Yes, and frequency regulation, yes.Q. And so that aspect of maintaining your system then shifts over to your hydraulic capacity. You use your hydraulic capacity as an add on,	1 2 3 4 5 6 7	 Q. Okay. Let's go to, let's take the example of a run in the river system. A run in the river is pure energy, no capacity. A. Well, there is some capacity. Q. Marginal or minimal amount of capacity. A. Depending on the size of the plant, it all factors into the equation and into the -
2 3 4 5 6 7 8	capacity requirements or as you put it, voltage issues that may arise as a result of that, correct?A. Yes, and frequency regulation, yes.Q. And so that aspect of maintaining your system then shifts over to your hydraulic capacity. You use your hydraulic capacity as an add on, if needed, at the point that Holyrood is going	1 2 3 4 5 6 7 8	 Q. Okay. Let's go to, let's take the example of a run in the river system. A run in the river is pure energy, no capacity. A. Well, there is some capacity. Q. Marginal or minimal amount of capacity. A. Depending on the size of the plant, it all factors into the equation and into the - Q. There's usually little or not storage that you
2 3 4 5 6 7 8 9	capacity requirements or as you put it, voltage issues that may arise as a result of that, correct?A. Yes, and frequency regulation, yes.Q. And so that aspect of maintaining your system then shifts over to your hydraulic capacity. You use your hydraulic capacity as an add on, if needed, at the point that Holyrood is going flat out.	1 2 3 4 5 6 7 8 9	 Q. Okay. Let's go to, let's take the example of a run in the river system. A run in the river is pure energy, no capacity. A. Well, there is some capacity. Q. Marginal or minimal amount of capacity. A. Depending on the size of the plant, it all factors into the equation and into the - Q. There's usually little or not storage that you can count on. So, it's mostly energy that you
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1 1	MR. HAYNES:	1	and how it's used by Hydro has changed over
2	A. Yes, but also, if you go back to Schedule 4,	2	the last couple of decades? It's gone from
3	we also try to run not too far ahead of that,	3	itself being used as, sort of, that peaking
4	whatever line that is.	4	capacity filling requirement in your system
5	Q. The green line.	5	especially in the winter months to now that
6	A. The green line, yes. We don't want to be too	6	capacity filling requirement that you have in
7	far ahead of that because risk spill.	7	the winter months being shifted over to your
8	Q. Right.	8	hydraulic end of your business.
9	A. And then we obviously do not want to spill	9	A. I'm not sure if I would put it that way. I
10	water.	10	think the last twenty so years, I mean, we
11	Q. So, in the case where it looks like that may	11	basically planwe plan Holyrood to,
12	have been, you'd cut back on Holyrood	12	particularly since the '90s, for 25 percent
13	production in order to produce more hydro	13	incapability factor to protect our firm. And
14	energy.	14	it's a critical component of our portfolio.
15	A. Yes, we wouldn't keep Hydro atI'm sorry, we	15	It's notI don't think you can actually treat
16	wouldn't keep Bay D'Espoir atI'm sorry,	16	it much different. The way we load the plan
17	Holyrood at 150 megawatts or 170 megawatts or	17	is most due to economics. It's a critical
18	if we're going to risk spilling water.	18	part of the whole.
19	Q. Right.	19	Q. Yes, so I guess, that was the next point is
20	A. You know, we wouldactually, it's the other	20	assuming for a moment that the way that Hydro
21	way around. We would run it up on the pins to	21	utilizes the Holyrood plant has changed since
22	avoid spilling water. So, it's a balance	22	this introduction in the '70s to today in the
23	between those two that we try to maintain.	23	sense of how you use it in your system
24	Q. So, is it the case then that the character, if	24	planning, your annual system planning, that
25	you will, of the Holyrood generating station	25	that wasis it fair to say that that wasn't a
	Page 159		Page 160
1	policy decision, it was a changed brought on	1	624 kilowatt hour per barrel works out to 5.13
2	through a process that was driven from just	2	cents per kilowatt hour, correct?
3	your system factors?	3	A. I believe that's the number, it was quoted.
4	A. I think as the system matured and as you start	4	Q. Okay. And that 5.13 cents per kilowatt hour
5	to, you know, interconnect the various areas	5	is actually made up of a fuel cost which was
6	and regions that that utilization increased	6	4.7 cents a kilowatt hour and then the rest is
7	and you became more of a mature system, if you	7	your O & M variable.
8	will.	8	A. Yeah, there are fuel additives that increase
9	Q. Now, I just have some points I wanted to	9	with the amountchemical use that increase
10	clarify about Holyrood again, itself, and it's	10	with the amount of fuel.
11	been described that Holyrood is your marginal	11	Q. Which is .45 cents per kilowatt hour?
12	cost plant, correct?	12	A. I believe that's the number.
13	A. In the short term, yes.	13	Q. Okay. Now, reference has been made to the
14	Q. Your short run marginal cost plant.	14	fact that Granite Canal has ais able to
15	A. Yes.	15	produce energy at 5.5 cents per kilowatt hour
16	Q. Okay. And I understand that that's because of	16	to the bus bar, I believe is how Mr. Wells put
17	the fact that there's a high variable in your	17	it?
18	operating and maintenance for the energy that	18	A. Yes, I believe.
19	is produced by Holyrood as compared to your	19	Q. Okay. And are we dealing with apples and
20	other plants in the system?	20	apples there in the sense that this 5.13 cents
21	A. Yes, but primarily fuel would be the main	21	per kilowatt hour for Holyrood is at the bus
22	driver. It's primarily the cost of fuel.	22	bar?
23	Q. Right. Because the amount of kilowatt hour	23	A. I think the 5.3 cents at Holyrood, I don't
24	for energy produced by the Holyrood generating	24	think that number actually considered the
25	station at your proposed conversion factor of	25	capital cost of the plant whereas the figure

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	ober 23, 2003 Mu	ti-Pa	ge NL Hydro's 2003 General Rate Application
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1 1	MR. HAYNES:	1	equal, the higher your marginal cost is going
2	for Granite Canal would have considered it,	2	to become for the energy produced at Holyrood?
3	and there are no significant costs with	3	A. Well, you would have aobviously you have the
4	respect to the water itself. Whereas Holyrood	4	fuel costs. You also have O&M costs, which
5	is primarily driven by fuel, I believe the	5	change a little bit. You have employee
6	variable O&M number was driven by fuel	6	salaries and so on. So the dollar per
7	additives and chemicals and so on. Whereas	7	kilowatt hour would beif you were to look at
8	Granite Canal was basically a function of the	8	the actual cost of producing a kilowatt hour
9	depreciation and interest and so on.	9	at Holyrood and look at the fuel, the O&M, et
10	Q. Right. So in the case of Granite, that's the	10	cetera, the fact that there are 99 employees,
11	average annual energy production costs, 5 $1/2$	11	the less production, you know, you have the
12	cents per kilowatt hour, correct?	12	fuel coming down, you have the other costs
12	A. There were two or three different numbers	12	going up.
13	quoted, but that's the order of magnitude,		Q. But your conversion factor usually erodes if
		14	
15	yes.	15	you produce less energy at Holyrood?
16	Q. In the case of Holyrood, that's just your	16	A. Yes, because you can't get it up at these high
17	short run marginal, 5.13 cents. Do you know	17	efficiency points that we -
18	what the average annual energy production	18	Q. So your short run marginal cost at Holyrood
19	costs for Holyrood is, as proposed?	19	increases the less you use it?
20	A. You mean considering capital and -	20	A. Yes, I think last month or two months ago, we
21	Q. Yes.	21	had 608 kilowatt hours per barrel because we
22	A. I think it's less than six. It's less than	22	were low.
23	six cents, in that order.	23	Q. Mr. Haynes, intuitively, would you agree with
24	Q. Now there's also the oddity, isn't there, that	24	me that your system is more expensive to run
25	the less Holyrood is used, all else being	25	in the winter months, as opposed to the summer
	Page 16	3	Page 164
1	months?	1	province in 1991, and I got these from IC-113,
2	A. Well, we're burning more fuel then. The	2	and in 1991 we had 576,489 people and by 2001,
3	maintenance activities will be toned back a	3	that had dropped to 521,200 people. Okay?
4	bit because we're not doing overhauls and so	4	A. Yes.
5	on, but by and large, there is some increase	5	Q. And then I looked at the kilowatt hours sold
6	in the day-to-day operating costs,	6	for each of those years.
7	particularly from a fuel point of view.	7	A. Yes.
8 (1:15 p.m.)	8	Q. And this is all the entire province, Labrador
9	Q. Would you agree that winter-driven capacity	9	and Newfoundland, because the population
10	requirements are pushing cost into the system?	10	statistics included both. And then I just
11	A. I guess the winter-drivenas the capacity or	11	worked out a per capita consumption of
12	the demand increases, you would have to	12	kilowatt hours, and the per capita consumption
13	install more plant to meet that peak criteria.	13	in 2001 worked out to 13.21 kilowatt hours per
14	Q. Traditionally, would you agree that Hydro's	14	person, and the per capita consumptionand I
15	new plant requirements have been driven by	15	might be off by a magnitude. I'm not sure if
16	capacity constraints more than energy	16	I got my decimal place in the right spot, but
17	constraints?	17	it doesn't matter because I'm just going to
18	A. They're actually driven by both, but the	18	compare the two of them.
19	majoryou know, when we deliver most	19	A. Yes.
20	capacity, when we deliver most energy is in	20	Q. The per capita consumption for 1991 I got to
20	the winter.	20	be 10.2 kilowatt hours per person. So it
21	Q. I was doing some calculations, Mr. Haynes, on	21	denotes an increase in the per capita energy
22	what the per capita consumption of energy has	22	use for the period 1991 to 2001 of 29.4
125	been in the province for the period 1991 to	23	percent, which would be, on average, 3 percent
24			
24 25	2001, and I started with the population of the	24	a year.

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1 N	IR. HAYNES:	1	the day is that one percent per year is
2	A. If that's the math, yes.	2	because there's been this drop in the
3	Q. Okay. And I did the same thing for your	3	population of the province?
4	demand on the megawatt basis.	4	A. Well, there are a multitude of factors that go
5	A. Yes.	5	into that particular forecast, the gross
6	Q. Peak weather adjusted. And I get an $18 \frac{1}{2}$	6	domestic product, the population is an input.
7	percent increase in the per capita demand use	7	The personal disposable income is an input
8	for the same period of time, which works out	8	into that long-term planning forecast as well.
9	to 1.85 percent per year. And I'm wondering,	9	But I mean, your numbers on the individual per
10	there's been a lot of testimony about the	10	capita consumption, I have no doubt they're
11	forecast load growth and forecast energy	11	correct, and that's a statistic that's common
12	growth and the numbers that Hydro is using is,	12	in many jurisdictions, in Canada particularly.
13	I think as you indicated just a few minutes	13	Q. Which statistic, the 3 percent?
14	ago, .8 percent for some of them or around the	14	A. The fact that the per capita consumption of
15	1 percent level for your capacity growth and	15	electricity is increasing, as it has increased
16	your energy growth?	16	substantially over the last number of years.
17	A. Those figures were for energy growth. I	17	Q. Okay. That's a question I had. Just assume
18	didn't actually calculate the numbers on the	18	for the moment that I'm correct that your per
19	capacity.	19	capita consumption of electric energy has been
20	Q. Okay. But you'd agree with me clearly that in	20	at an annualized 3 percent for the last ten
21	the last ten years, your per capita growth, at	21	years. Do you know how that compares to the
22	least based on those numbers, has certainly	22	national growth rates or the rates experienced
23	been much higher than one percent. That for	23	in other provinces on a per capita basis?
24	the system purposes, the only reason your	24	A. I don't know the detail, but I do recall
25	energy growth that you're seeing at the end of	25	reading various things, that Canadians are the
	Page 16	57	Page 168
1	highest per capita users of electricity in the	1	conservation programs aimed directly at the
2	world or in the northern climates, and there's	2	average user in the Province of Newfoundland
3	lots of reasons put forward as to why that's	3	and Labrador?
4	so, because of the northern climate and so on,	4	A. I guess we have not taken it upon ourselves, I
5	but I'm not surprised at the number, but I	5	guess, to target the customers of Newfoundland
6	don't know the specifics for the other	6	Power with respect to that. We do have the
7	jurisdictions.	7	programs, the HYDROWISE Program. We do look
8	Q. There's also, I guess, wheels within wheels,	8	at demand side management in the isolated
9	there's also some significant growth being	9	areas. But the biggest component of the load
10	experienced in your Rural Isolated sector of	10	growth on the Interconnected System is
11	your business, correct?	11	actuallyis primarily the all-electric
12	A. Particularly in Labrador.	12	customer of Newfoundland Power. We have a
13	Q. And PUB-3, page 52, provides some of that,	13	very small number and the penetration rate of
14	just for the Panel's assistance. So I guess,	14	electric heat in our interconnected areas is
15	Mr. Haynes, given that there is again a	15	not as high asI would suggest that all new
16	looming capacity or energy issue that Hydro's	16	construction is primarily electric heat in our
17	going to have to deal with -	17	areas, but there's not as many conversions
18	A. Yes.	18	over the years and so on, as Newfoundland
19	Q by constructing new plant, and given that	19	Power customers. So we have not takenwe
20	that issue is arising as a result of these	20	have not assumed that role to bypass our
21	increases in energy use and demand requirement	21	customer to go to their customer. It is an
22	on a per capita basis, can I ask you why Hydro	22	education thing and there were various
			-
23	hasn't, other than the HYDROWISE Program	23	programs by the Federal Government and maybe
23 24	hasn't, other than the HYDROWISE Program targeted towards the rural customers, why it	23 24	and the Provincial Government, but we have not
		24	

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1 1	MR. KENNEDY:	1	the generation and transmission level." So I
2	Q. The curiosity that I have is you've got	2	guess, sort of begs the question, isn't it,
3	referenced in a document, Exhibit DWR-1, I	3	that if these growth rates that we've been
4	know it's not yours, Mr. Haynes, it would be	4	experiencing on a per capita basis in the
5	Mr. Reid's, but it's a report of joint	5	province are causing these capacity and energy
6	coordination between Newfoundland and Labrador	6	constraints, and we know that effective demand
7	Hydro and Newfoundland Power, and there's a	7	side management programs or conservation
8	section there on generation and transmission	8	programs will at least defer when that new
9	operations. And there's a few references, for	9	plant is required, and that there's an
10	instance, page 4 under "system planning" the	10	expression at least in this document that
11	second sentence says "since the 1970s, Hydro	11	there's this coordination taking place between
12	and Newfoundland Power system planning staff	12	Hydro and Newfoundland Power in system
13	have met regularly to discuss the implications	13	planning, I don't understand your earlier
14	of load forecast and customer growth on the	14	reply then that well, Hydro kind of throws up
15	need for system additions to determine cost	15	its hands because well, that's Newfoundland
16	effective solutions and to ensure associated	16	Power's customers. Would not this
17	technical issues, such as system protection	17	coordination go that next step to both
18	and under frequency load shedding are	18	yourself and Newfoundland Power trying to
19	appropriately addressed." And then over at	19	figure out how to defer plant construction or
20	page 13, under "observations and"no, page	20	at least decrease the amount of energy
21	13. There we go. Under "observations and	21	consumption or demand that customers are
22	conclusions" the second paragraph, "in terms	22	placing on the system?
23	of impact on operational effectiveness, the	23	A. Most of the context of that particular
24	most significant opportunities for cooperation	24	response, the document with respect to
25	between Hydro and Newfoundland Power are at	25	generation and transmission planning, is that
	Page	171	Page 172
1	when we do go into an area where additional	1	environmental parameters to the design, and we
2	transmission is required or where there are	2	don't want to preclude any particular source.
3	opportunities for Newfoundland Power to do	3	We would like to get the most cost effective
4	certain things than us, we do look at that in	4	source for the customers and if you leave it,
5	the planning context and try to do what makes	5	you could do a gas turbine plant very quickly,
6	the most sense for the consumer. On	6	but it's not necessarily the cost effective
7	generation, I mean, there has been	7	way to approach it.
8	discussions, I guess, with respect to how they	8	Q. Now you're aware that, at least on its face,
9	tie in and so on. But there's been no	9	The Electrical Power Control Act places the
10	discussion on, of late, on any major demand	10	responsibility of ensuring that adequate
11	side management initiatives. I think there	11	system planning is taking place is with the
12	were in the early 90s but they have since	12	Public Utilities Board?
13	ceased, and I think the Provincial Government	13	A. That's correct.
14	as well had some kind of a committee on the go	14	Q. Okay. And we're aware that at least the last
15	for demand side management, which it abandoned	15	number of generation projects, the Granite
16	as well in the early 1990s.	16	Canal, your NUGS and I understand the wind
17	Q. Mr. Haynes, you've described, both in your	17	generation project that's being proposed as
18	testimony throughout the last few days and in	18	well, have been exempted from the Board's
19	your pre-filed, that the new plant that at	19	jurisdiction by virtue of Orders in Council.
20	this point in time is forecast to be required	20	You're aware of that, as well?
21	by 2009-2010 will require planning in 2005,	21	A. Yes, I am.
22	correct?	22	Q. Okay. So barring another Order in Council
23	A. That's the time frame that we would have,	23	that would exempt again from this Board's
24	particularly for a hydro plant, because it	24	jurisdiction, the construction of new capacity
25	takes, you know, four to five years to do the	25	that's going to be required in 2009-2010, can

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1 MR. KENNEDY:	1 meet that. We would review those particular
2 you tell me what Hydro's intentions are, if	2 options. Our options that we would have
3 any, in coming forward to the Board with an	3 immediately available to us would be Island
4 adequate amount of time prior to this 2005	4 Pond. It could be a gas turbine or combined
5 horizon for when you're planning needs to take	5 cycle, but based on the load forecast that you
6 place to begin that process of allowing the	6 see, I doubt very much it will beHolyrood 4
7 Board to be involved in the process as	 would be a major player, because it's 150
 required under The Electrical Power Control 	8 megawatts, and you know, one terawatt hour,
9 Act?	 9 which we really don't need at this point in
10 A. Our intentions would be to proceed as we	10 time. It would be too big a step increase.
10 A. Our intentions would be to proceed as we 11 normally would, and that is that we, as that	11 So we would evaluate our resources against the
	-
	13 analysis and look at all those options, and it
14 right?	14 may be a single project that we would propose
15 A. That general time frame. Our -	15 to the Board or it may be two or three smaller
16 Q. But you were fairly specific in your evidence,	16 projects, whatever the most economic outcome
17 Mr. Haynes.	17 that meets the reliability criteria that has
18 A. I say 2005. Yes, 2005, okay.	18 been adopted.
19 Q. Okay.	19 Q. So that -
20 A. All right. We may need to go and do a final	20 A. And that wouldour intention would be to
21 cost estimate for the Island Pond project. We	21 propose that to the Board for their review and
22 may go to do an RFyou know, we mayI would	22 approval of a course of action.
23 suggest that we would, in fact, go to the	23 Q. Okay. And that's after your 2005 planning or
24 market, if you will, and to issue an RFP for	24 is that prior to your 2005 planning?
25 generation sources that may be available to	25 A. I would suggest in 2005, but we would actually
Page 175	Page 176
1 start to do that exercise to evaluate those	1 common practice because you're operating 24
2 options and we would plan to bring something	2 independent systems than we do on the
3 to the Board in ample time to approve and	3 Interconnected System, and they're much
 to the Board in ample time to approve and review and discuss and approve a project or 	3 Interconnected System, and they're much4 smaller.
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1 GREENE, Q.C.:	1 CERTIFICATE
2 and start with Mr. Martin.	2 I, Judy Moss Lauzon, do hereby certify that the
3 CHAIRMAN:	3 foregoing is a true and correct transcript in the matter
 4 Q. Sounds good. Thank you very much, Mr. Kennedy 5 and Mr. Haynes, and we'll see you at 9 6 tomorrow morning. 	 4 of Newfoundland and Labrador Hydro's 2003 General Rate 5 Application for Approval of, among other things, its 6 rates commencing January 2004, heard on the 23rd day of
	7 October, 2003 before the Board of Commissioners of Public8 Utilities, Prince Charles Building, St. John's,9 Newfoundland and Labrador and was transcribed by me to
	10 the best of my ability by means of a sound apparatus.11 Dated at St. John's, Newfoundland and Labrador
	12 this 23rd day of October, A.C., 2003
	13 Judy Moss Lauzon