## Multi-Page<sup>TM</sup>NL Hydro's 2003 General Rate Application

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1	(9:07 a.m.)	1	at this time, I would like to speak to one of
2	CHAIRMAN:	2	those. There were two given by Mr. Haynes.
3	Q. Thank you and good morning. Good morning, Ms.	3	The first was to update the undertaking
4	Newman. Any items before we begin?	4	provided in U Hydro No. 3 when we have filed a
5	MS. NEWMAN:	5	revised revenue requirement. So the key
6	Q. Yes. Good morning, Chair and Commissioners.	6	performance indicators, as listed in U Hydro
7	I did want to comment on the schedule for this	7	No. 3 will be updated following our filing the
8	week. It was raised on Friday that perhaps we	8	revised revenue requirement. So we're not in
9	might sit on Wednesday. Just to let everybody	9	a position to respond to that, of course, at
10	know, it doesn't look like the schedule will	10	this time. But the next one, we are, and it
11	require that we sit on Wednesday, but if we do	11	was an undertaking to Mr. Seviour and it is U.
12	have to, then the parties are prepared to sit	12	Hydro No. 18, where the undertaking was to
13	as long as we need to on Wednesday. Also, I	13	provide the generation or the local loads upon
14	think that counsel for Hydro has a comment on	14	the Great Northern Peninsula during the
15	an undertaking.	15	incident that started on September 18th.
16	CHAIRMAN:	16	We have distributed a written response to
17	Q. Beg your pardon?	17	this undertaking, as Mr. Haynes is off the
18	MS. NEWMAN:	18	stand, but I believe it is self explanatory.
19	Q. Counsel for Hydro has a comment on an	19	If you lookI have circulated copies to the
20	undertaking.	20	parties. If you look at either the hard copy
21	CHAIRMAN:	21	that's been just distributed or the copy that
22	Q. Okay. Thank you. Good morning, Ms. Greene.	22	there's on the screen, you'll see that we
23	GREENE, Q.C.:	23	have, in the first column, the time. The next
24	Q. Good morning, Mr. Chair, Commissioners. There	24	column which is headed "transmission load"
25	were six undertakings provided on Friday, and	25	indicates what the load is on the two lines on
	Pa	nge 3	Page 4
1	the GNP, the 66 kV line and the 138 kV line.	1	we had increased the generation at St. Anthony
2	The next column, with the heading "St. Anthor	ny 2	to 6.2 megawatts and Roddickton standby had
3	Generation" indicates what the load was when	•	also come on. So the total load on the GNP
4	the standby diesel generation was started at	4	would have been 18.17 megawatts at that time.
5	St. Anthony, and similarly the next column,	5	And similarly, you will see that when the
6	which is headed "Roddickton Generation" show		incident was over, at 1:00 in the morning on
7	the load that came on when the Roddickton	7	the morning of the 19th, the load, because of
8	standby was started, with the last column	8	normal drop in load due to the night
9	showing the total load. If you look at the	9	conditions, had dropped to 14 megawatts and we
10	time, you'll see 2100 or 9:00 p.m. That was	10	had no generation on at St. Anthony or
11	before the incident. So before the incident,	11	Roddickton. It was all being fed by the
12	the load to the GNP was 21.77 megawatts being		Interconnected grid at that time.
13	fed from the Interconnected grid. At 2200 or	13	And you'll see the explanation there in
14	10:00, which was just after St. Anthony	14	the words that of course the reduced
15	started, because the St. Anthony standby came	15	transmission load, as a result of the
16	on at around 9:56 p.m., you'll see at that	16	generation coming on in the GNP freed up
17	time, there was 14.01 megawatts going up the	17	generation elsewhere on the Island
18	GNP on either the 66 kV or the 138 kV line,	18	Interconnected system that enabled customers
19	and we had 3 1/2 megawatts on at St. Anthony.		to be restored to service during the Bay
20	for the total load on the GNP being 17.5	20	D'Espoir plant outage. And the last thing we
21	megawatts. I don't plan to go through each of	20	show there on the bottom was what were the
22	those, but I'll just do the next one. At	22	loads in the St. Anthony Roddickton system,
23	2300, you'll see that the load on the	23	because of course that was what was
24	Interconnected grid, the 66 kV and the 138 kV		interconnected in 1996. So the top column
25	lines have reduced to 10.47 megawatts because		shows the full GNP load and how it was being
Ľ	miles have readered to 10.17 megawaits because		shows the full of a four the now it was boiling

Page 51 GREENE, Q.C.:12serviced during the incident and just before23and just after, and the bottom column shows34just for the St. Anthony Roddickton area,45which was the area interconnected in 1996. So56hopefully that's self-explanatory. However,67if the Industrial Customers have additional78questions, I'm sure we'll follow them up.89Thank you very much, that is the response9	<ul> <li>as of the end of '02 and as of current.</li> <li>A. That's correct.</li> <li>Q. Could you address that, please?</li> <li>A. Certainly. At the end of December 2002, the vacancies in the TRO division were six, and</li> </ul>
<ul> <li>serviced during the incident and just before</li> <li>and just after, and the bottom column shows</li> <li>just for the St. Anthony Roddickton area,</li> <li>which was the area interconnected in 1996. So</li> <li>hopefully that's self-explanatory. However,</li> <li>if the Industrial Customers have additional</li> <li>questions, I'm sure we'll follow them up.</li> <li>Thank you very much, that is the response</li> </ul>	<ul> <li>as of the end of '02 and as of current.</li> <li>A. That's correct.</li> <li>Q. Could you address that, please?</li> <li>A. Certainly. At the end of December 2002, the vacancies in the TRO division were six, and</li> </ul>
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8questions, I'm sure we'll follow them up.89Thank you very much, that is the response9	three of those were backfilled and as of
9 Thank you very much, that is the response 9	·
	, , ,
10 to U. Hydro 18. 10	
11 CHAIRMAN: 11	
12 Q. Thank you, Ms. Greene. Good morning, Mr. 12	e
13 Martin.	
A. Good morning, Mr. Chairman.	1 5
15 Q. Mr. Kelly, good morning.	
16 KELLY, Q.C.: 16	
17 Q. Good morning, Chair.	
18 CHAIRMAN: 18	
19Q. When you're ready, please.19	e
20 KELLY, Q.C.: 20	
21 Q. Thank you. Good morning, Mr. Martin.	
A. Good morning, Mr. Kelly. 22	1
23 Q. Mr. Martin, there was another undertaking from 23	1
Friday, which I understand you're ready to 24	
address as well, and that was the question of 25	5 the permanent and temporary employees of all
Page 7	Page 8
1 of Hydro to start off with and if we go down 1	e
2 to 1998, because that's the year we'll need 2	2 A. As I believe I mentioned on Friday, the
3 here for a point of comparison, and compare it 3	5
4 with the end of '02. The permanent staff has 4	reduction in vehicles. I tried to point out
5 dropped from 889 down to 801 or a drop of 88 5	1
6 employees in total, and if we go and look at 6	5 three or four individuals and we eliminated a
7 your division next, Mr. Martin, which is NP-9, 7	7 line worker position, we still need the line
8 at page 4 of 6, and we again look at 1998 and 8	truck. If we have commissioning crews or any
9 we come down from 1998 to 2002, we have 406 to 9	other type of crew that involves more than one
10349, for a reduction of 57, and up to August,10	individual, eliminating one of those positions
a reduction of 64. So we've had reductions	doesn't necessarily eliminate the vehicle for
both in your division, fairly significant	2 that group. Some of these layoffs have been
reductions, and reductions in Hydro's staff 13	
14 overall. Now can we just put NP-24 on the	•
15 screen? And this gives us the number of 15	
vehicles in Hydro's operations from 1998 to 16	1 5
17 2002, and if we go to page 2 of 6, scroll down 17	draw the conclusion that necessarily because
172002, and if we go to page 2 of 6, scroll down1718to the bottom, we had 274 in 1998 and then if18	5
	you reduce the number of employees that you
to the bottom, we had 274 in 1998 and then if	you reduce the number of employees that you should automatically reduce the number of
18to the bottom, we had 274 in 1998 and then if1819we go over to page 6 of 6, we had, at the end19	you reduce the number of employees that you should automatically reduce the number of
18to the bottom, we had 274 in 1998 and then if1819we go over to page 6 of 6, we had, at the end1920of 2002, we had 282. So Hydro's employees20	<ul> <li>you reduce the number of employees that you</li> <li>should automatically reduce the number of</li> <li>vehicles.</li> <li>Q. But why would the number of vehicles increase?</li> </ul>
18to the bottom, we had 274 in 1998 and then if1819we go over to page 6 of 6, we had, at the end1920of 2002, we had 282. So Hydro's employees2021have gone down by 88 in total and transmission21	<ul> <li>you reduce the number of employees that you should automatically reduce the number of vehicles.</li> <li>Q. But why would the number of vehicles increase? Because here we've seen an increase of eight.</li> </ul>
18to the bottom, we had 274 in 1998 and then if1819we go over to page 6 of 6, we had, at the end1920of 2002, we had 282. So Hydro's employees2021have gone down by 88 in total and transmission2122and operations during that period are down by22	<ul> <li>you reduce the number of employees that you should automatically reduce the number of vehicles.</li> <li>Q. But why would the number of vehicles increase?</li> <li>Because here we've seen an increase of eight.</li> </ul>

### Discoveries Unlimited Inc., Ph: (709)437-5028

October 27, 2003

October 27, 2003 Multi	-Pa	ge <sup>™</sup> NL Hydro's 2003 General Rate Application
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1 MR. MARTIN:	1	A. That would certainly have been Granite Canal.
2 because of an increase in project vehicles	2	It would have been the Avalon upgrade project
3 netted out against a rationalization of the	3	and any other capital projects that required a
4 crew sizes and the number of vehicles we	4	vehicle.
5 needed for operational purposes and the result	5	Q. Okay.
6 was a net increase, I believe it was, of	6	A. A permanently assigned vehicle.
7 eight. And I could try to find that RFI if	7	Q. Let me just ask you this question. You talked
8 you'd like. I think it's NP-193. I think	8	about the fact that certain line crews, you'd
9 this particular RFI was in direct response to	9	still need the same number of vehicles, but
10 the very question you've just asked, and we	10	would some supervisory personnel have been
11 said the increaseif I can read from the	11	eliminated and would some of those have
12 answer at line 12, "the increase in vehicles	12	vehicles which would be redundant, no longer
13 from '98 to 2002 reflects the difference	13	necessary?
14 between 15 units purchased for capital	14	A. I certainly think that's possible, but I mean,
15 projects and seven units eliminated as a	15	I don't have specific answers to that, to tell
16 result of fleet rationalization."	16	you the truth.
17 (9:18 a.m.)	17	Q. Okay. Well, let me take you next to NP-261
18 Q. So what I take it that means that you got 15	18	and your reference here to NP-193 is helpful
19 during that period up to 2002 for capital	19	for this question. This provides a breakdown
20 projects?	20	of transportation costs from 2001 actual up to
21 A. Right.	21	2004 forecast, and if I take out the aircraft,
22 Q. That were ongoing?	22	fuel and aircraft costs, what I'm left with,
23 A. Right.	23	as I understand it, Mr. Martin, and correct me
24 Q. And would that be primarily Granite Canal,	24	if I'm wrong, the next five entries, the last
25 especially in the latter period?	25	five all relate to vehicle operation?
Page 11		Page 12
1 A. That's correct.	1	vehicles that were used and only being used in
2 Q. Okay. Now if we go down to the 2002 actual	2	the capital project that the elimination of
and we take out the amounts for aircraft, fuel	3	those would now reduce the overall expense, as
4 and costs, I have 791,885 left over, in other	4	opposed to simply what's happened now is we've
5 words, 792,000 for 2002 actual. But when I	5	got another 185,000 being charged to
6 come over to the 2004 forecast, I haveand I	6	operating?
7 do the same exercise, I have 994,386, almost	7	A. Only again because the vehicles that we use on
8 995. So that from 2002 actuals, despite the	8	capital projects are not necessarily specific
9 reduction in your capital program, the	9	vehicles purchased for the project. As I
10 operating expense for vehicles has gone up	10	tried to explain again on Friday, our regular
11 25.6 percent at the same time that we've had	11	vehicles that we use for O&M purposes, when
this reduction in employees and elimination of	12	they're used on capital projects, and only
13 capital projects. Why would that be the case?	13	when they're used on capital projects, they
14 If the capital projects were over or at least	13	are expensed to those particular capital jobs.
reduced, why would vehicles costs go up?	15	Q. Let's phrase the question this way. If it
A. Because the capitalized expense is a credit to	16	only took you 791,000 of operating expense in
17 the bottom line.	17	2002, because those vehicles were employed on
Q. Yes, I understand that. And if we look down	18	capital projects, why does it take 995,000 of
through 2002 actual, we have a credit on	10	operating expense for vehicles in 2004?
capital fleet of 485,000.	20	A. Because obviously again, to my mind, those
20 capital field of 485,000. 21 A. Right.	20	crews, the line inspectors, the commissioning
22 Q. And if we go across to 2004, we have a credit	21	crews, the telecontrol technicians who are out
22 Q. And If we go across to 2004, we have a credit 23 of only 300,000?	22	commissioning all these capital projects are
-	23 24	gone back to doing their routine operation and
<ul><li>A. Right.</li><li>Q. Now I would have thought that if you had</li></ul>		maintenance work and we don't get the credit
2. Tow I would have mought that if you had	25	Page 9 - Page 12

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1 N	/R. MARTIN:	1	But we are undertaking that review right now.
2	available on the capitalization of the fleet	2	Q. Let me just take you to IC-212, to page 5 of
3	for those vehicles.	3	the attached document, to item 4, vehicles.
4	Q. But you didn't reduce your operating	4	And your union, and this is in 19sorry,
5	maintenance work while Granite Canal was being	5	2003, suggested there in item 4, "we are
6	built, surely?	6	recommending that a minimum of 15 vehicles be
7	A. I would certainly say there were things that	7	removed from the system." Has Hydro had any
8	were delayed on the maintenance side because	8	discussion with its union as to which vehicles
9	of our requirement for our own individuals to	9	the union thinks would be appropriate for
10	go out and commission these projects and	10	removal?
11	inspect them, definitely.	11	A. I know that the president and CEO and two
12	Q. Has Hydro conducted any review of its fleet	12	executives met with the union on all of these
13	requirements now that Granite Canal is	13	issues. Whether or not they specifically
14	completed?	14	addressed which 15 vehicles the union thought
15	A. Well, I think, as I mentioned in my direct	15	could be eliminated, I really can't comment
16	examination by Ms. Greene on Friday, we are	16	on. I don't know, but again, I would caution
17	currently in the throws of doing a complete	17	you that before this letter was even written,
18	vehicle or actually, yes, the complete fleet	18	we were in the middle of this vehicle review
19	review, something that we hope to have	19	or fleet review and the outcome of that will
20	completed by the end of this year and	20	be what it is.
21	presented to management and although we're	21	Q. But this letter is back earlier in 2003.
22	expecting some changes, like I said in the	22	A. Right.
23	evidence on Friday, I really don't know where	23	Q. How long has this fleet review been going on?
24	that's going to go right now. So we'll have	24	A. We started this in the spring.
25	to hold judgment on that, in my mind at least.	25	Q. In the spring? When -
	Page 15		Page 16
1	A. April of this year.	1	helicopters are not available or it's not
2	Q. Will the results be incorporated in the	2	suitable for a piece of work, we have
3	refiling?	3	arrangements for what we call casual
4	A. No, it will not.	4	helicopter services.
5	Q. It will not?	5	Q. Okay. Let's just take that a step further and
6	A. The refiling is going to be done at the end of	6	look at NP-27, and this gives us the breakdown
7	this month and we will not have a chance to	7	of helicopter rentals and retaining fees.
8	look at their final determinations until	8	A. Yes.
9	sometime towards the end of this year.	9	Q. And I take it the top three columns are the
10	Q. Let me move to a related question, which	10	TRO columns?
11	relates to aircraft costs. If we go back to	11	A. That's correct.
12	NP-261, we had the aircraft costs along the	12	Q. And, for example, for 2002, just to break that
13	first two lines, and running roughly about a	13	out, it's 709,000 out of a million and twenty-
14	million fifty thousand dollars during that	14	four, for approximately 69 percent. So you've
15	period on average. Can you just give the	15	got the bulk of the helicopter charges. In
16	Board a brief explanation first as to what	16	the other non-helicopter component, you talked
17	would go into aircraft costs? What does Hydro	17	about fixed wing. Is that like only up to the
18	primarily use them for?	18	coast of Labrador? Is that usedwhat else
19	A. Aircraft costs primarily are the leasing of	19	would be included in there?
20	our helicopters. We have a contract with a	20	A. No, that's the bulk of it.
21	joint venture of Canadian and Universal for	21	Q. Just to Labrador.
22	helicopter services. It would go into any	22	A. If we need to get a flight out of St. Anthony
23	fixed wing aircraft we rent to try and get to	23	to, I don't know, Port Hope Simpson in an
1			
24	remote sites in an emergency situation. And	24	emergency situation to respond to a problem,

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1 1	MR. MARTIN:	1	A. I think, again, it's because it's at their
2	line crew or something over there.	2	base in the Happy Valley Goose Bay airport and
3	Q. Okay. Now what I'd like to understand a	3	it may even be a different aircraft or
4	little bit about this one is how this	4	helicopter. I'm not sure of the different
5	helicopter program works. Let me just start	5	types. But the one that we have on the island
6	it this way. At the top of this one, it's	6	is based in Bishop Falls. So it's away from
7	talking about rentals and retainer fees. How	7	their centre of operations, if you will. So I
8	much of this is in retainer and how much is	8	think that comes into play as well. But those
9	actually the rental? Do you have that	9	are the numbers that I have. Fixed fee per
10	information?	10	day on the island \$800. In Labrador, it's 400
11	A. I do. On the island, the fixed fee per day is	11	to 450.
12	\$800.	12	Q. And how much does that come to in total
13	Q. Is that just to have it available on standby	12	retainer fees for the year?
13	or is that -	13	A. I don't have my calculator.
14	A. That's the fee to have it available on	14	Q. Okay. And tell us the rentals then?
			•
16	standby.	16	A. The additional fee per hour of usage is \$ 280
17	Q. And is that like every day of the year?	17	per hour when it's flying, and that's at both locations.
18	A. That's every day.	18	
19	Q. \$800?	19	Q. Why do you pay a retainer fee for every day of
20	A. Yes.	20	the year? Is it not possible to determine
21	Q. Okay.	21	that the helicopter will be required only for
	(9:30 a.m.)	22	certain periods?
23	A. In Labrador, it's \$400 or 450, in that	23	A. No. I mean, much of the usage of this
24	neighbourhood.	24	helicopter is in response to emergency
25	Q. Why is it only about half in Labrador?	25	situations. If we have an outage in a place
	Page 1	.9	Page 20
1	like Southeast Bight and we have to respond to	1	how much of a saving is there then in that
2	that, the crew that services that area is	2	elimination of half of the helicopter line
3	based in Bay D'Espoir. The helicopter is	3	patrol?
4	dispatched from Bishop Falls to pick up a line	4	A. I personally have not done any estimates of
5	worker or two in Bay D'Espoir to go to	5	that. The contract that we have with the
6	Southeast Bight. That can happen on Sunday,	6	joint venture is a valid contract until
7	Christmas Day, any day of the year.	7	February of '05, but again, you need to
8	Q. Okay. Let's go -	8	understand that it's not only the routine
9	A. So we've determined, with regards to	9	patrols of our transmission lines that the
10	reliability and continuity of service to our	10	helicopter is used for. There's many other
11	customers, we need an aircraft, a helicopter	11	purposes that the helicopter is used for. One
12	available on a retainer basis.	12	is like dyke surveillance at our sites. We
13	Q. Let's have a look at NP-191, and this	13	use it for the crew changes for the water
14	addresses the question of helicopter costs and	14	controllers at Burnt Dam. As I mentioned
15	you talk in the answer about helicopter	15	before, not only do we use them for patrolling
16	patrols for the period '98 to 2002 were	16	of a transmission line or distribution line on
17	conducted quarterly and then you explain what	17	a routine maintenance basis, we also use it
18	the patrols are intended to do. First of all,	18	after an outage or during an outage to try and
19	I understand that the helicopter patrols are	10	find problems so we can more readily dispatch
20	now no longer quarterly, they're semi-		crews to the appropriate areas to try and
	annually?	20	speed up their recovery of service. There's a
21	•	21	
22	A. That's correct. That was a result of our RCM	22	whole host of things that these aircraft are
23	initiative, we cut back the routine line patrols by a factor of two.	23	used for, other than just routine patrolling of our transmission lines.
1~	DAIROIS DV A LACIOR OF IWO	24	of our transmission lines
24 25	Q. And we see the answer to that in NP-277, but	25	Q. Right. I understand there are other uses, but

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1 K	ELLY, Q.C.:	1	say no, it is not. That particular savings of
2	isn't one of the purposes of the Reliability	2	the 70 or \$75,000 I would anticipate going to
3	Centred Maintenance program and the reduction	3	the bottom line of our vacancy adjustment, the
4	of helicopter patrols intended to save money?	4	extra 1.5 million dollars that Hydro has
5	A. Not only is it intended to do, it is going to	5	budgeted for these savings as a result of
6	save money.	6	process improvement.
7	Q. But you don't know how much that is?	7	Q. You lost me now. Helicopter costs is not a
8	A. We put in an estimate in the response to an	8	salary item. Why would it go in the vacancy
9	RFI, I think, on at least one or two occasions	9	allowance?
10	that we anticipate a savings of one million	10	A. The vacancy allowance is made up of two items.
11	dollars a year annually starting in the test	11	One is the actual vacancy allowance that we've
		12	always carried of a million dollars. The
12	year. O Yea, but that's for all the Baliability		other 1.5 million dollars is anything that we
13	Q. Yes, but that's for all the Reliability	13	
14	Centred Maintenance program. A. That's correct.	14	can recover as a result of business process
15		15	improvement.
16	Q. How much is helicopters?	16	Q. So it's intended to not only cover salary
17	A. The estimated savings in helicopters, as a	17	items, but any item? Is that what you're
18	result of the actual flying time, is in the	18	telling us?
19	order of 70 to \$75,000.	19	A. That's what I'm telling you.
20	Q. And did I understand your answer that that	20	Q. Just go back to NP-27 for a second. In 2002,
21	won't happen until after '05?	21	we had taken out theconfining it to TRO, we
22	A. No, we have introduced that particular saving	22	had 709,000 in TRO and if you go back to 2001,
23	this year, part way through 2003.	23	it was 534,000. So we had \$170,000 odd of
24	Q. And is that in the '04 test year?	24	increase from '01 to '02. Do you have any
25	A. Is that in the '04 test year? I would have to	25	sense of what the '03 and '04 projections are?
	Page 23		Page 24
1	A. Just on the helicopter?	1	damage to structures, guys, and access road
2	Q. Yes. Because I'm trying to understand, we got	2	conditions. These are things -
3	this reliability centred maintenance. There's		
1		3	Q. I probably didn't phrase the question very
4	supposed to be some savings. I'm trying to	3	well. Let me try it again.
5	see where, in fact, it reflects, if anywhere,		well. Let me try it again. A. Okay.
		4	well. Let me try it again. A. Okay. Q. Is there a regular one every five years of
5	see where, in fact, it reflects, if anywhere, and I'm - A. Those savings will not be reflected in the	4 5	<ul><li>well. Let me try it again.</li><li>A. Okay.</li><li>Q. Is there a regular one every five years of ground patrol on all your lines? In other</li></ul>
5 6	see where, in fact, it reflects, if anywhere, and I'm -	4 5 6	<ul><li>well. Let me try it again.</li><li>A. Okay.</li><li>Q. Is there a regular one every five years of ground patrol on all your lines? In other words, it talks about 20 percent of all lines</li></ul>
5 6 7	<ul><li>see where, in fact, it reflects, if anywhere, and I'm -</li><li>A. Those savings will not be reflected in the '03/04. You will see the savings in '03 obviously.</li></ul>	4 5 6 7	<ul><li>well. Let me try it again.</li><li>A. Okay.</li><li>Q. Is there a regular one every five years of ground patrol on all your lines? In other words, it talks about 20 percent of all lines annually. In other words, is there a fixed,</li></ul>
5 6 7 8	<ul><li>see where, in fact, it reflects, if anywhere, and I'm -</li><li>A. Those savings will not be reflected in the '03/04. You will see the savings in '03</li></ul>	4 5 6 7 8	<ul><li>well. Let me try it again.</li><li>A. Okay.</li><li>Q. Is there a regular one every five years of ground patrol on all your lines? In other words, it talks about 20 percent of all lines annually. In other words, is there a fixed, once every five years we go around and do this</li></ul>
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#### Discoveries Unlimited Inc., Ph: (709)437-5028

October 27, 2003

1 MR MARTIN:         1         our Wood Pole Management Program.           2         1 think what you're getting at is the fact         2         0. Are you telling me that the million dollars of           4         preventative maintenance work as a result of         4         Factor         7           6         And again. [1] go back to an item we         6         0. Are you telling me that the million dollars of           7         discussed on Friday, our Wood Pole Management         7         A. They are reflected in the test year.           6         And again. [1] go back to an item we         6         0. Okay. Those arc, but all of these particular           7         discussed on Friday, our Wood Pole Management         7         are not because they came later?           9         is going to be done by our own line worker         9         A. Not specifically. 1 think if you look at what           11         They're out there this year testing and         11         numbers, if we saved roughly a million dollars           13         is to do 3200 poles an ewp program to try         13         Fole Management Program.         14           14         noted, was done by a contractor, and         15         Schedule 5 of my evidence. The difference in the system equipment maintenance budget that         16           15         that system equipment maintenance budget that		Page 25		Page 26
2       1 think what you're getting at is the fact       2       Q. Are you telling me that the million dollars of         3       that we're eliminated a significant amount of       3       RCM savings that we understood then are not         4       preventative maintenance work as a result of       4       reflected in the test year.'         5       RCM where are all those savings showing up.       5       A. They are reflected in the test year.'         7       discussed on Friday, our Wood Pole Management       7       ones about helicopier patrols and line patrols         7       discussed on Friday, our Wood Pole Management       7       ones about helicopier patrols and line patrols         8       regregating at is the fact       9       A. Not specifically. I think if you look at what         10       They're out there this year testing and       1       numbers, if we saved roughty a million dollars         12       treating 1500 poles. The objective next year       12       in RCM, and again that's only estimate,         13       is do 3200 poles as an ew program tor y       13       roughty a million dollars       in rectification         14       and extend the life of these particular       14       Pole Management Program is going to cost us in         15       assets. That work previously in       16       reflected in the actonut	1 M	C C	1	0
3         that we've eliminaned a significant amount of         3         RCM savings that we understood then are not           4         preventative maintenance work as a result of         4         reflected in the test year.           6         And again, I'Il go back to an tiem we         6         O. Okay. Those are, but all of these particular           7         discussed on Finds, our Wood Pole Management         7         onces about helicopter partols and line patrols           8         program, for example. That particular program         8         are not because they came later?           9         is going to be done by our own line worker         9         A. Not specifically. I think if you look at what           10         forces in house. We've trained our people.         10         I'm saying, see if I can put i in context of           11         they ere dimense particular         14         Pole Management Program is going to cost us in           13         asses. That work previously, the small         15         the order of \$650,000. Those savings are           16         amount of work that we had done previously in         16         reflected in the actual numbers that's in           19         the system equipment maintenance budget, that         16         reflected in the vacancy aljustment account, if you will, in           21         madgly 5550,000 as a result of this Wood	1			· ·
4       reflected in the test year?         5       RCM where are all those savings showing up.       5       A. They are reflected in the test year.         7       discussed on Friday, our Wood Pole Management       7       ones about helicopter patrols and line patrols         7       discussed on Friday, our Wood Pole Management       7       ones about helicopter patrols and line patrols         8       Program, for example: That patricular program       are not because they came later?         9       is going to be done by our own line worker       9       A. Not specifically. I think if you look at what         10       forces in house. We've trained our people.       10       n'm saying, see if I can put it in context of         12       treating 1500 poles. The objective next year       12       in RCM, and again, that's only estimate,         13       is do 300 poles as new program tory       13       is do 300 poles as new program tory       13         14       and extend the life of these particular       14       Pole Management Program is going to cost us in         15       assets. That work previously, in small       15       the order of \$850,000. Those swings are         16       and extend the life of these particular       14       Schedule 5 of my evidence. The difference in         18       what you would have seen is in an item like	1			
5       RCM where are all those savings showing up.       5       A. They are reflected in the test year.         6       And again, I'll go back to an item we       6       Q. Okay. Those are, but all of these particular ones about helicopter partols and line patrols are not because they came later?         8       Program, for example. That particular program is going to be done by our own line worker       9       A. Not specifically. I think if you look at what         10       forces in house. We've trained our poople.       10       I'm saying, see if I can put it in context of         11       They're out there this year testing and       11       numbers, if we saved roughly a million dollars in RXO, our Wood         13       is to do 3200 poles as a new program to try       13       roughly a million dollars in RXO, our Wood         14       and extend the life of these particular       14       Pole Management Program is going to cost us in         15       the dot 3200 poles as a new program to try       13       roughly a million dollars in RXO, our Wood         16       amount of work that we had done previously in       16       reflected in the actual numbers that's in         16       amount of work that we had done previously in       16       reflected in the actual numbers that's in total         17       that regard made item would have goone an out any that in       17       scheer howe because as a result of RXM.		•		6
6       And again, [11 go back to an irem we       6       Q. Okay. Those are, but all of these particular ones about helicopter patrols and line patrols are not because they came later?         7       discussed on Friday, our Wood Pole Management       7       ones about helicopter patrols and line patrols are not because they came later?         9       is going to be done by our own line worker       9       A. Not specifically. I think if you look at what         11       They're out there this year testing and       11       numbers, if we saved roughly a million dollars         12       treating 1500 poles. The objective next year       12       in RCM, and again that's only estimate,         15       assots. That work previously the small       15       rediet of \$650,000. Those savings are         16       and extend the life of these particular       14       Pole Management Program is going to cost us in         16       motion work that we had done previously in       16       reflected in the actual numbers that's in         17       that regard, was done by a contractor, and       17       schedule \$ of my evidence. The difference in         18       whaty now boult have sens in an intem like       19       call it \$350,000 is going to a into that         19       represent by file \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		*		•
7       discussed on Finday, our Wood Pole Management       7       ones about helicopter partols and line patrols are not because they came later?         8       Program, for example. That particular program       8       are not because they came later?         10       forces in house. We've trained our people.       10       In mubers, if we saved roughly a million dollars         11       They're our there this year testing and       11       In RCM, and again that's only estimate,         13       is to do 3200 poles as a new program to try       13       roughly a million dollars       In RCM, and again that's only estimate,         14       and extend the life of these particular       14       Pole Management Program is going to cost us in         16       amoun of work that we had done previously in       16       the order of 5650,000. Those savings are         16       amoun of work that we had done previously in       16       the order of 5650,000 is going to go into that         19       the system equipment maintenance budget, that       19       call it \$350,000 is going to go into that         21       program! Program. We have not put that in       20       And how much do you think that is in total         23       there now because as a result of RCM, we 're       23       there now because as a result of RCM, we 're       24       alob to tak out sits for that and put it towards				
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23NP-277. When you go down through this one, I'm going to touch on the transmission items.23A. Under our new Wood Pole Management Program that we're looking at, any poles less than 15	21	A. Right.	21	iswhat sort of inspections would take place
24 I'm going to touch on the transmission items. 24 that we're looking at, any poles less than 15	22	Q. Okay. All right. Let's just have a look at	22	during that period?
	23	NP-277. When you go down through this one,	23	A. Under our new Wood Pole Management Program
25 We looked at your helicopter patrols reduced 25 years of age, we wouldn't necessarily inspect,				
	24	• •	24	that we're looking at, any poles less than 15

### Discoveries Unlimited Inc., Ph: (709)437-5028

October 27, 2003

	ober 27, 2003 Multi	-Pa	age "NL Hydro's 2003 General Rate Application
	Page 29		Page 30
1 N	/R. MARTIN:	1	won't do line patrols obviously. That's still
2	that's correct.	2	included. I'm talking about climbing
3	Q. At all?	3	inspections by line workers.
4	A. At all. Unless there was a known problem.	4	Q. That's what I was trying to understand. And
5	But we would not spend our timewhat we found	5	you'd still do the helicopter every half year?
6	in the past is that poles that are less than	6	A. Absolutely.
7	15 years of age, there's very little, if	7	Q. And you'd still do an ATV patrol once every
8	anything, we ever find as a problem with those	8	five years?
9	poles. It's only when we get beyond that 15-	9	A. Exactly. These are climbing inspections that
10	year time line that we start to identify	10	are referred to in this. Sorry for the
11	problems with these poles and therefore the	11	misunderstanding.
12	frequency would change. Again, as part of our	12	(9:45 a.m.)
13	Wood Pole Management Program, what we're	13	Q. On this reliability centred maintenance issue
14	looking at right now, and we'll be bringing	14	and looking at the poles is probably a good
15	this forward to the Board following approval	15	example or we can choose anyone, is there some
16	by our management committee, is a ten-year	16	sort of test that Hydro is using as to what
17	cycle where on a ten-year cycle basis, perhaps	17	maintenance is enough? In other words, how
18	even for 20 years, two ten-year cycles, we	18	are you determining that this much reliability
19	will inspect, test and treat all of our wood	19	is appropriate? In other words, is it like
20	pole transmission structures.	20	outages per customer ordo you follow my
21	Q. And does the same answer apply on these steel	21	question?
22	and aluminum towers, that there'd be no	22	A. Yes, I think I follow your question, and it's
23	inspection for ten years?	23	not based on the outages per customer. It's
24	A. Yes, and again, I think that refers to like a	24	based upon an analysis and a review of the
25	climbing inspection. That's not to say we	25	various components that make up a system.
	Page 31		Page 32
1	It's based upon the regular maintenance, I'll	1	Q. You talked about though a value judgment and
2	call it the status quo of how we do	2	then a sanity test.
3	maintenance, what type of inspections we've	3	A. Check.
4	done in the past, the frequencies we've done,	4	Q. Check. Is there anywhat I'm trying to
5	the tactics we've used. It's based upon what	5	understand, is there any kind of objective
6	we've actually found in doing that maintenance	6	standard against which Hydro will determine
7	and those inspections, and then there's a	7	that this amount of maintenance is appropriate
8	value judgment made that we need to continue	8	and that amount, beyond that, it's better not
9	doing that. We can change the frequency,	9	to spend the money? I'm trying to understand
10	either increase or decrease the frequency of	10	the process.
11	that. Perhaps we need to change the tactic.	11	A. No, like I think I said, it's based upon an
12	And at the end of that exercise, I'd like to	12	analysis of what we have been doing, what's
13	call it the sanity check, there's always a	13	standard in the industry, what we've found in
14	sanity check made to make sure that the	14	the past. I mean, obviously if we change the
15	conclusion that's reached is a valid	15	frequency of inspecting wood poles to a ten-
16	conclusion and we move forward. I think it's	16	year climbing inspection and after seven
17	also important to say that the RCM initiative,	17	years, we notice we're starting to get into
18	once it's implemented starting in 2004, is not	18	problems or things are not progressing as we
19	a dead issue. It's going to be a living	19	thought they would be, then we will change it.
20	program. We will be revisiting that from time	20	We will rectify it. But I don't think it's
21	to time, based upon what we find, the outcome	21	fair to say that we're going to use any
22	of the initiatives, and no doubt, in my mind	22	specific yard stick with regards to the number
23	or anybody's mind, that it will change over	23	of customer outages or outage times or
24	time as we become more familiar with the new	24	anything like that.
25	schedules and the new tactics.	25	Q. Mr. Haynes, when he was on the stand, referred

## Multi-Page<sup>TM</sup>NL Hydro's 2003 General Rate Application

	ober 27, 2003 Mult	1-1 ag	ge NL Hydro's 2003 General Rate Application
	Page 33		Page 34
1 K	KELLY, Q.C.:	1	maintain it, we're not going to let that power
2	to it as almost a run to failure program.	2	transformer run to failure. It doesn't make
3	What do you say to that?	3	economic sense, even though you've got,
4	A. Run to failure is an RCM tactic that is always	4	perhaps, redundancy already in the station.
5	applied to non-critical components. In other	5	Q. It's a balancing process.
6	words, if you have a system that's made up of	6	A. It's a balancing process, exactly.
7	numerous components and you have, I'll say,	7	Q. Can I take you to Mr. Brushett's 03 report to
8	two pumps that are 100 percent redundant, then	8	page 42? And the part that I want to take you
9	you may not spend an awful lot of time	9	to, Mr. Martin, begins at about line 2 there,
10	repairing and doing maintenance on both of	10	and it talks about in 2002 there was a
11	those pumps, because you could conceivably let	11	significant increase in the TRO division
12	one run to failure and the reliability of the	12	we're talking about maintenance herewhich
13	system as a whole stays at 100 percent. We	13	was primarily due to certain non-recurring
14	have looked at that as part of our RCM	14	extra maintenance costs in central and
15	initiative and I can't tell you anything right	15	northern regions. And those requirements, the
16	now, as a matter of fact, I'd be very	16	extra maintenance requirements in these areas
17	surprised if we've identified anything that	17	included inspections and replacement of wood
18	we're prepared to let run to failure. We	18	poles; reconditioning transformer oil at the
19	don't have a lot of redundant systems. As an	19	Bay d'Espoir site; repairs to the air blast
20	example, in some of our terminal stations we	20	circuits at Sunnyside; repairs to diesel plant
21	had redundant or I'll say, we can take care of	21	units due to a leak in the exhaust manifolds;
22	our power transformers with the loss of the	22	et cetera. And some of those would appear to
23	largest unit, but if a power transformer is	23	be projects of a capital nature; in other
24	\$2,000,000.00 to replace and on an annual	24	words, they're either a betterment or would
25	basis it cost us \$10,000.00 to inspect and	25	extend the life of the asset. In particular,
	Page 35		Page 36
1	replacement of poles and reconditioning of	1	structure transmission line and we replace one
2	transformersI'm not quite sure what the air	2	pole or the cross arm or the knee braces on
3	blast units are about. Can I get you to	3	that particular structure, that is not the
4	comment on that?	4	replacement of a unit of property, so that's
5	A. That's in fact air blast circuit breakers.	5	expensed as an operatingunder an operating
6	Q. Circuit breakers?	6	budget. Reconditioning transformer oil,
7	A. Yes, should be the correct reference there.	7	whether or not you'd call that life extension,
8	Q. Were those air blast circuit breakers	8	those people that provide the service say it
9	replaced?	9	is, others in the industry say it's not, it's
10	A. No, they were refurbished.	10	a maintenance tactic that if you don't do
11	Q. Okay, well if the refurbishment, another	11	something like that, you're going to lose your
12	example then of something that is, the life is	12	transformer earlier. Does it actually extend
13	extended. Can I get you to comment on why	13	the life of the transformer? I personally
14	some of these items would not be capitalized	14	don't think that it does. Same thing with the
15	as part of your capital program?	15	refurbishment of air blast circuit breakers.
16	A. Well just, for instance, start with the wood	16	We're spending \$35,000.00 on an unit, the
	poles, the way we treat is again, as I	17	capital cost replacement of a breaker is in
17		18	the order of \$200,000.00, so what we do is we
18	understand it on the financial side, is we	10	
1	have units of property set up within Hydro.	19	break the breaker down, we replace contacts,
18 19 20	have units of property set up within Hydro. If we replace a single pole in a single poled	19 20	break the breaker down, we replace contacts, we replace oil rings and seals and all the
18 19 20 21	have units of property set up within Hydro. If we replace a single pole in a single poled transmission line, then we capitalize that.	19	break the breaker down, we replace contacts, we replace oil rings and seals and all the rest of the stuff like you would on a normal
18 19 20 21 22	have units of property set up within Hydro. If we replace a single pole in a single poled transmission line, then we capitalize that. That is a structure, it's a unit of property.	19 20	break the breaker down, we replace contacts, we replace oil rings and seals and all the rest of the stuff like you would on a normal overhaul, if you will, put the thing back
<ol> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> </ol>	have units of property set up within Hydro. If we replace a single pole in a single poled transmission line, then we capitalize that. That is a structure, it's a unit of property. If we replace that single pole in a single	19 20 21	break the breaker down, we replace contacts, we replace oil rings and seals and all the rest of the stuff like you would on a normal overhaul, if you will, put the thing back together, put it back in service. Should that
18 19 20 21 22	have units of property set up within Hydro. If we replace a single pole in a single poled transmission line, then we capitalize that. That is a structure, it's a unit of property.	19 20 21 22	break the breaker down, we replace contacts, we replace oil rings and seals and all the rest of the stuff like you would on a normal overhaul, if you will, put the thing back

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1	KELLY, Q.C.:	1	inspection and testing of the conductor, the				
2	Q. But each of those examples extends the life,	2	insulators, the hardware, the whole				
3	does it not? Take for example your	3	transmission system. And we firmly believe				
4	reconditioning of the oil, your answer kind of	4	that that formal program will bewe expect it				
5	puzzled me. Why would you do it if you don't	5	to be a life extension program and we will be				
6	think that it extends the life?	6	bringing that forward as a potential capital				
7	A. Because if you don't do it, it's like your	7	investment. The replacing of one pole here				
8	car, I mean, you change the oil and the filter	8	and another pole there on a wood pole				
9	in your car, it doesn't necessarily extend the	9	transmission line is not necessarily, at least				
10	life. It's a normal maintenance practice and	10	in my mind, a life extension exercise for that				
11	all power utilities at some point or other	11	complete transmission line system, if you				
12	recondition their oil. I don't know, some may	12	will.				
13	capitalize, some may not, but I don't think	13	Q. The new program that you're talking about, how				
14	it's a life extension tactic, if you will.	14	is that intended to work in contrast with what				
15	Q. I think I understood from one of your	15	you're doing now? I didn't quite follow.				
16	questions with Ms. Greene that in fact Hydro	16	A. What we've been doing up until recently is, I				
17	is looking at the question of capitalizing	17	think similar to what Newfoundland Power and				
18	certain pole replacements, did I understand	18	some other utilities are doing, we do an				
19	that correctly?	19	inspection, we find nothing, we leave it				
20	A. Yes, if the work that we do this year and next	20	alone. We find some minor problems, we leave				
21	year pans out the way we hope it will, we will	21	it until the pole deteriorates and then we				
22	be looking at the potential for a twenty-year	22	replace the pole. That's what we've been				
23	program to extend the life of our wood pole	23	doing up until now, and again, I mightI have				
24	assets. That will include not only the	24	to caution you if we replace two or three				
25	testing and inspection of the pole, but the	25	poles in a two or three-poled structure, we				
	Page 39	9	Page 4				
1	would capitalize that. We would, it's a unit	1	structure, the insulators, the hardware, the				
2	of property, if the materiality is there, we	2	conductor and so on, the whole effort being				
3	would capitalize it. If we went out and	3	that we're not going to let these poles				
4	changed the cross arms or the knee braces or	4	deteriorate to the point that we have to				
5	whatever on a multi-poled structure, that is	5	replace them. We are going to regenerate				
6	not the replacementyou still have the other	6	them, we're going to put new preservatives in				
7	one or two poles there. We have not extended	7	them with the intention of trying -				
8	the life of that structure or the line. So I	8	Q. And that, I take it then you're going to				
9	think that's the difference I'm trying to	9	capitalize the cost of doing that program, is				
10	distinguish.	10	that what I'm understanding?				
11	Q. What I didn't get is what's new in what you're	11	A. Our intention right now and obviously we have				
12	going to do that is going to lead to	12	to bring this before management and the				
13	capitalization?	13	finance department, our intention right now is				
14	A. Oh, I'm sorry. What we're going to do is	14	if we can formalize this into a long-term				
15	these poles typically have a life of, I'll say	15	program with a Cost Benefit Analysis behind it				
16	40 or 50 years. Under this Wood Pole	16	that shows that this will work and this is the				
17	Inspection Program, we are going to drill the	17	way to go, rather than replace poles on an ad				
18	poles themselves, we're going to insert boron	18	hoc basis, then our intention is, again,				
19	rods and the idea there is to regenerate, if	19	subject to approval of the Board, obviously,				
20	you will, the preservatives that were in the	20	that we would capitalize this formalized				
21	pole initially to try and extend the life of	21	program on a go-forward basis.				
22	the pole. We're going to test the pole with	22	Q. And perhaps my question is premature, but do				
23	regards to its remaining strength. We're	23	you have a sense of the Cost Benefit Analysis				
1.0.4		1.0.1	$-f_{1} + f_{2} + f_{$				

24

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# inspect the rest of the pole and the Discoveries Unlimited Inc., Ph: (709)437-5028

24

25

going to catalogue all of that, we're going to

of that yet, from your preliminary work?

A. No, I'm very reluctant, until we get this

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	Page 4		Page 42
1 M	IR. MARTIN:	1	this regard is that, as I mentioned before, I
2	thing finished and get a chance to put it	2	think TRO's role in trying to control the
3	together with a recommendation to management,	3	Rural deficit is one of trying to minimize
4	I wouldn't want to hazard a guess in that	4	costs and being as innovative as we can in
5	regard.	5	operating and maintaining the system.
6	Q. That's fair, I'll leave that one. Mr. Martin,	6	Q. Let's go to NP-56 next and there we have a
7	I want to turn next to look at the Rural	7	breakdown between Island Interconnected and
8	deficit a bit and to start with this, can we	8	the Isolated System. And there are a couple
9	go to the report which is attached to Mr.	9	of things, first of all the total continues to
10	Wells' evidence, corporate overview evidence	10	be forecast to grow, so it rises to 44
11	in chief on the Rural deficit, to page 2 of	11	million, but what I'm curious about is the
12	14. And we have there a table which shows the	12	Isolated System, which I understand includes
13	Rural deficit from '92 to 2002 and in	13	Labrador where the growth is, you've indicated
14	particular, by 1999 it was 22.1 million, in	14	is taking place, in fact, is forecast to be
15	fact have reduced down to 1999, but then has	15	pretty stable, out to 2007? Roughly 23, 22
16	had marked increases since then, so it is now	16	million?
17	forecast at about 41.6 million for '04. Do	17	A. Right.
18	you just want to comment, first of all,	18	(10:00 a.m.)
19	briefly on the reasons for the particular	19	Q. While the Island Interconnected is forecast to
20	large increase from '99 to current?	20	rise from 19 million to 22 million, an
21	A. If I remember correctly, part of that is as a	21	increase of almost 16 percent. Can you help
22	result of the assignment of the transmission	22	us understand why the Island Interconnected is
23	line on the GNP. I understand as well that	23	rising and the Isolated is not; in particular,
24	that's affected by fuel prices and no doubt,	24	the Labrador Isolated?
25	other things. My only comment beyond that in	25	A. No, I'm afraid I can't.
	Page 43	3	Page 44
1	Q. Is there any particular driver on the Island?	1	that, Mr. Kelly, I'm sorry. With regards to
2	A. I would assume, again, it's driven by fuel	2	the Rural deficit, I'm not sure how much
3	oil, No. 6 fuel oil at Holyrood, and other	3	control or influence Hydro has on it in total.
4	than costs are just increasing, I mean, our	4	TRO, as I mentioned before, what we can do is
5	operating costs, I'm sure, are increasing at a	5	try to minimize the operating and maintenance
6	rate greater than our recovery through	6	costs of the Interconnected and Rural Systems,
7	revenue, so that may be another factor that's	7	and in that regard, I am totally responsible
8	driving it.	8	and I take the responsibility very seriously.
9	Q. Has Hydro done any study to see what is	9	But with regard to trying to monitor what's
10	driving the growth and the Rural deficit both	10	called the Rural deficit and the external
11	wholly and in terms of the Island	11	influences that are had on that by various
12	Interconnected?	12	sources, and internally, including the cost of
13	A. A study?	13	No. 6 fuel oil and so on which I have no
14	Q. Yeah, any kind of internal analysis as to what	14	control over, I think that's a bit of a
15	the drivers are?	15	stretch. I like responsibility, but you can
16	A. Not that I'm aware of. I wouldn't be	16	go too far.
17	surprised to hear that we had done one, but	17	Q. When youwhen Hydro puts forward a project,
18	I'm not aware of one.	18	evaluates a project, does Hydro consider the
19	Q. But it would come under your department, would	19	impact on the Rural deficit in deciding to
20	it not?	20	bring that project forward?
21	A. No, it wouldn't.	21	A. I think that was discussed previously. I
22	Q. Why wouldn't it? We were all told you were	22	don't think Hydro would specifically look at,
23	the man with the Rural deficit, why does it	23	again, the bottom line numbers with regards to
24	not come under your department?	24	the impact that that project would have on the
25	A. No, again, I need to correct you again on	25	Rural deficit. I don't think we would. Now,

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would have done to determine the impact of

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11	MR. MARTIN:	1	as to what, if any, impact that has on the
2	I stand to be corrected on that, I think what	2	Rural deficit? In other words, any attempt to
3	we would want to do is look at it and make	3	trace that through to see what impact, if any,
4	sure that overall, for the consumers of	4	it has?
5	electricity in the Province, that it was an	5	A. Not to my knowledge, again we're trying to be
6	economic and viable project that was fully	6	as cost effective in carrying out our
7	justified and reasonable to bring forward.	7	operations as we can. The reduction of a lot
8	But I don't think we would try to tie it into	8	of these things from the overhaul of diesel
9	what impact it might have on the Rural deficit	9	engines in these Isolated communities, to
0	numbers we see before us.	10	reducing preventative maintenance routines on
1	Q. Let's say for example you were bringing a	11	distribution systems, to transmission, all of
2	project to the Board as part of your capital	12	these will go towards controlling, if not
3	project, one of your capital expenditures,	13	minimizing or reducing the Rural deficit. I
4	would Hydro do any determination of what the	14	certainly am not aware of any study that Hydro

impact of that might be on the Rural deficit

15

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16 and advise the Board accordingly? 16 this particular initiative on the Rural A. I don't think we've ever done that. I've deficit, no, I'm not. 17 17 Q. Okay, does Hydro report to the Board annually certainly never seen in done on any projects 18 18 that we brought forward. on the Rural deficit at all? Is there any 19 19 Q. Let's just have a quick look at NP-277 again, report that goes to the Board? 20 20 this comes back to reliability centred A. I would have to say that I'm not aware of one, 21 21

15

maintenance, if you go to the last page of but again, I wouldn't be surprised if we did. 22 22 that, there's a million dollars of forecast 23 Q. What would you think of that as an option, 23 savings of RCM, that's what we talked about a that Hydro would report annually to the Board 24 24

and report as to the changes in the Rural few moments ago. Has Hydro done any analysis 25 Page 47

	Page 47		Page 48
1	deficit and the reasons for it?	1	just indicated, is that your general
2	A. I can only surmise that if the Board thought	2	understanding of what's happening up in L'Anse
3	it would be of some benefit and help to them	3	au Loup?
4	in their deliberations, that we wouldand it	4	A. The load growth in L'Anse au Loup has grown
5	could be done, that we would do it.	5	significantly, yes.
6	Q. Okay. Let me look at a couple of examples to	6	Q. And in a nutshell, can you summarize why?
7	kind of focus some of these questions a little	7	A. I think it's been as a result of the rates in
8	more. And the first one I want to look at is	8	that particular area, a general load growth in
9	the L'Anse au Loup System and I went through	9	electric heat and I think the General Service
10	this a little bit with Mr. Wells and I'll just	10	Customers as well have picked up significantly
11	summarize some of the key items and if you	11	in load in that particular system.
12	want me to take you to the references, I will.	12	Q. Now, you see in NP-211, the answer that you
13	At the time of the last hearing, the deficit	13	got up there, that some of the power is
14	was \$1,062,000.00 and it's now forecast in RDG	14	purchased from Hydro Quebec, but there's a
15	No. 1 to be \$1,250,000.00, so an increase of	15	diesel generation component as well?
16	almost \$200,000.00 since the last hearing in	16	A. That's correct.
17	'01 to where we are in '04. And the demand on	17	Q. Can you just explain how that works?
18	that system has grown really exponentially,	18	A. Yes, routinely, as the norm, we buy secondary
19	rapidly. If we go back to 1996, the demand	19	energy from Hydro Quebec's hydro facility at
20	was 9,657 megawatt hours and in 2004, if we go	20	Lac Robertson through their Blanc Sablon
21	to NP-211, you'll see it forecast to be 16,810	21	distribution system. Under contract, the
22	megawatt hours. Do you see line 12 there?	22	small amount of diesel generation you would
23	A. I do.	23	see there is a small allowance made for any
24	Q. So a seventy-five percent increase over eight	24	time that we're, again, it's secondary energy,
25	years. First of all, is that yourwhat I	25	any time we're dropped from the Hydro Quebec

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	Page 49		Page 50
1 N	IR. MARTIN:	1	that with their knowledge and concurrence, and
2	system, for whatever reason, and we have to	2	we are about to sit down with them in early
3	put the diesel plant on, and there may be some	3	November as part of the initiative on the
4	small component of station service there as	4	protection and control issues I discussed on
5	well for the diesel plant, just to keep it	5	Friday, to see if we can increase that
6	prepared to go.	6	contractual three megawatt limit to something
7	Q. So is the diesel plant maintained because the	7	higher. I know we've gone as high as three
8	Hydro Quebec power is non firm? In other	8	and a half megawatts take from the Hydro
9	words, it can be dropped at any time?	9	Quebec system.
10	A. That is certainly one of the reasons, yes. We	10	Q. Is there any discussion contemplated with
11	can be dropped at any point in time and we	11	Hydro Quebec to try and make any of that power
12	have to provide service to the people in the	12	firm power, so that the diesel component is
13	L'Anse au Loup system.	13	reduced or eliminated?
14	Q. Okay, so we have the cost of the	14	A. I'm not sure if there's been any discussions
15	interconnection, but we're also maintaining	15	recently. I would suggest thatI would think
16	the diesel power up there and the diesel plant	16	Hydro Quebec may be somewhat reluctant, they
17	as well, is thathave I got that correct?	17	want to have that power available if and when
18	A. That's correct.	18	they see the load growth on the Quebec system.
19	Q. Okay. Under the Hydro Quebec contract, are	19	It probably will be discussed, at least in
20	there maximum purchases or minimum purchases	20	some form at this meeting coming up in
21	under that contract?	20	November.
22	A. If I remember the contract correctly and I	22	Q. Well let me just take this a step further.
23	haven't read the document, I understand there	23	Let's have a look at NP-41 and this question
24	is a limit in the contract of three megawatts.	23	addresses how Hydro balances the issues of
25	I also understand that we regularly exceed	25	cost and reliability and generation capacity,
23	• •	-	
1	Page 51		Page 52
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	planning on Isolated systems and the criterion	1	Interconnection is assumed to be the largest unit.
$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	is Hydro shall maintain firm generation	2	
3	capacity to meet the system peak load. Firm	3	Q. Okay, well let me take you to CA-14 because
4	generation capacity is defined as the total	4	there's a report on reliability that Mr.
5	installed capacity on the system, minus the	5	Browne took you through. Can I take you to
6	largest single unit? A. That's correct.	6	page 4 and this is a report which was just
7		7	filed recently with the Board, as I understand
8	Q. So there's always a redundant unit, and I	8	it. And in the middle of the paragraph, about
9	don't mean that in a negative sense, but	9	a third of the way down, it says, "Based on
10	there's always an extra unit on the diesel	10	current load forecasts, Hydro is proposing to
11	generation system in each of these communities	11	increase the present capacity of the L'Anse au
12	to provide for a failure in any one of the	12	Loup plant from 3,900 kilowatt to 4, 900
13	units, is that the basic concept?	13	kilowatts in 2005. The present load is 3, 265
14	A. That's the concept.	14	kilowatts and the load forecast in 2005 is
15	Q. Right and we've looked at, for example, Mr.	15	3,982." And then it goes on to talk about
16	Browne took you through a table that showed	16	it's provided through Hydro Quebec with
17	the multiple generating units in each of these	17	secondary power. The diesel has sufficient
18	communities?	18	capacity to meet the area's load should it be
19	A. Correct.	19	required to do so, et cetera, et cetera. Can
20	Q. Okay, now with the load growing in L'Anse au	20	you just explain that to us then, because I
21	Loup, do you expect to add another unit in	21	read this as you're contemplating another
22	L'Anse au Loup?	22	generationanother generator in L'Anse au
23	A. No, I don't necessarily think we do. I	23	Loup?
24	believe, and again, I stand to be corrected on	24	A. Well, if this is correct and it says Hydro is
25	this, I believe the Hydro Quebec	25	proposing, I would assume we have not proposed

	,		
	Page 53		Page 54
	MR. MARTIN:	1	don't think it's fair to say that we are
2	anything yet, but in response to your last	2	proposing it. I would like to think at this
3	question, I said I stood to be corrected and	3	point in time we are contemplating it.
4	if you need a firm answer on that, I can	4	Q. Do you know the capital cost of a 500 kilowatt
5	certainly check it for you. You are right,	5	diesel generator?
6	this statement here obviously contradicts my	6	A. A 500 kilowatt diesel generator is in the
7	previous answer.	7	order of total capital cost, \$500,000.00.
8	Q. And what I'm trying to understand is, you've	8	Q. And does that include its installation?
9	got this power infeed from Quebec, why is this	9	A. Yes.
10	generator needed and if in fact Hydro is	10	Q. Now, if you were to come to the Board, I asked
11	proposing this new generator, what will be the	11	you earlier about would you advise the Board,
12	impact on the Rural deficit from this	12	as part of a capital program, what the impact
13	generator?	13	on Rural deficit would be. Is this not an
14	A. I would like to use the term here, instead of	14	example, Mr. Martin, of why it is important if
15	proposing, contemplating, again, that may be a	15	Hydro comes forward with a capital project
16	fine line, if you will, but I think the one	16	that materially impacts the Rural deficit,
17	thing we have to do is we have to have these	17	that the Board be advised what the impact
18	discussions with Hydro Quebec. We, as you	18	would be? Would you agree with that?
19	suggest, perhaps want to see if we can firm up	19	A. I see your point, but I don't think I
20	this energy. If we cannot firm up this	20	necessarily agree. I'm sure that if we
21	energy, then we have a responsibility to	21	brought forward a proposal for a new 500
22	provide service to the folks of L'Anse au	22	kilowatt diesel gen. set for L'Anse au Loup,
23	Loup, and if that determination is made that	23	I've never seen the justification for
24	we need to expand that capacity there, I'm	24	including an analysis of the impact on the
25	sure there will be great discussion on it. I	25	Rural deficit, but in this particular case
	Page 55		Page 56
1	Page 55 here, I'm sure there would be, the	1	Page 56 deliberations and if we could do it, I'm sure
1 2	here, I'm sure there would be, the	1 2	deliberations and if we could do it, I'm sure
2	here, I'm sure there would be, the justification would include the contract that		deliberations and if we could do it, I'm sure we would be prepared to do it.
1	here, I'm sure there would be, the justification would include the contract that we have with Hydro Quebec, the concerns that	2 3	deliberations and if we could do it, I'm sure we would be prepared to do it. Q. Okay.
2 3	here, I'm sure there would be, the justification would include the contract that we have with Hydro Quebec, the concerns that we have, the rationale for bringing forward	2	<ul><li>deliberations and if we could do it, I'm sure we would be prepared to do it.</li><li>Q. Okay.</li><li>A. I have difficulty in trying to understand or</li></ul>
2 3 4	here, I'm sure there would be, the justification would include the contract that we have with Hydro Quebec, the concerns that we have, the rationale for bringing forward that half a million dollar capital budget	2 3 4	<ul><li>deliberations and if we could do it, I'm sure we would be prepared to do it.</li><li>Q. Okay.</li><li>A. I have difficulty in trying to understand or rationalize how we're going to mix things with</li></ul>
2 3 4 5	here, I'm sure there would be, the justification would include the contract that we have with Hydro Quebec, the concerns that we have, the rationale for bringing forward that half a million dollar capital budget proposal, and then it would be up to the Board	2 3 4 5	<ul><li>deliberations and if we could do it, I'm sure we would be prepared to do it.</li><li>Q. Okay.</li><li>A. I have difficulty in trying to understand or rationalize how we're going to mix things with regards to reliability and cost to the impact</li></ul>
2 3 4 5 6 7	here, I'm sure there would be, the justification would include the contract that we have with Hydro Quebec, the concerns that we have, the rationale for bringing forward that half a million dollar capital budget proposal, and then it would be up to the Board to make the determination whether or not they	2 3 4 5 6 7	<ul><li>deliberations and if we could do it, I'm sure we would be prepared to do it.</li><li>Q. Okay.</li><li>A. I have difficulty in trying to understand or rationalize how we're going to mix things with regards to reliability and cost to the impact on the Rural deficit. That almost seems to me</li></ul>
2 3 4 5 6 7 8	here, I'm sure there would be, the justification would include the contract that we have with Hydro Quebec, the concerns that we have, the rationale for bringing forward that half a million dollar capital budget proposal, and then it would be up to the Board to make the determination whether or not they thought it was valid or not. And ask the	2 3 4 5 6 7 8	<ul><li>deliberations and if we could do it, I'm sure we would be prepared to do it.</li><li>Q. Okay.</li><li>A. I have difficulty in trying to understand or rationalize how we're going to mix things with regards to reliability and cost to the impact on the Rural deficit. That almost seems to me like we're going to start to distinguish</li></ul>
2 3 4 5 6 7 8 9	here, I'm sure there would be, the justification would include the contract that we have with Hydro Quebec, the concerns that we have, the rationale for bringing forward that half a million dollar capital budget proposal, and then it would be up to the Board to make the determination whether or not they	2 3 4 5 6 7 8 9	<ul><li>deliberations and if we could do it, I'm sure we would be prepared to do it.</li><li>Q. Okay.</li><li>A. I have difficulty in trying to understand or rationalize how we're going to mix things with regards to reliability and cost to the impact on the Rural deficit. That almost seems to me like we're going to start to distinguish between customer groups and how we justify</li></ul>
2 3 4 5 6 7 8	here, I'm sure there would be, the justification would include the contract that we have with Hydro Quebec, the concerns that we have, the rationale for bringing forward that half a million dollar capital budget proposal, and then it would be up to the Board to make the determination whether or not they thought it was valid or not. And ask the right questions with the intervention of all customers.	2 3 4 5 6 7 8	<ul><li>deliberations and if we could do it, I'm sure we would be prepared to do it.</li><li>Q. Okay.</li><li>A. I have difficulty in trying to understand or rationalize how we're going to mix things with regards to reliability and cost to the impact on the Rural deficit. That almost seems to me like we're going to start to distinguish between customer groups and how we justify projects and the level of service we're going</li></ul>
2 3 4 5 6 7 8 9 10	<ul> <li>here, I'm sure there would be, the justification would include the contract that we have with Hydro Quebec, the concerns that we have, the rationale for bringing forward that half a million dollar capital budget proposal, and then it would be up to the Board to make the determination whether or not they thought it was valid or not. And ask the right questions with the intervention of all customers.</li> <li>Q. Right, but the difficulty with that is that</li> </ul>	2 3 4 5 6 7 8 9 10	<ul> <li>deliberations and if we could do it, I'm sure we would be prepared to do it.</li> <li>Q. Okay.</li> <li>A. I have difficulty in trying to understand or rationalize how we're going to mix things with regards to reliability and cost to the impact on the Rural deficit. That almost seems to me like we're going to start to distinguish between customer groups and how we justify projects and the level of service we're going to supply to our customers. And, I guess,</li> </ul>
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### Discoveries Unlimited Inc., Ph: (709)437-5028

October 27, 2003

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1	KELLY, Q.C.:	1	Q. Right.
2	possible additions?	2	A. And I wouldn't be surprised to find out there
3	A. You mean with regards to new or larger	3	was some of those in there that are not
4	capacity diesel generators?	4	mentioned in this. We were talking here
5	Q. Yes, exactly.	5	specifically of the plants, themselves.
6	A. In the future?	6	Q. Okay, and on the L'Anse au Loup system, has
7	Q. Within the next, you know, reasonable period	7	Hydro examined the potential impact on this
8	of time, '05, '06.	8	continual load growth of moving to a price for
9	A. I don't have the five-year capital plan here,	9	energy that would be closer to the cost of
10	but it wouldn't surprise me to know we have	10	supplying it? In other words, has Hydro
11	some engines in there, absolutely not.	11	looked at revisiting that issue of the price
12	Q. But what aboutyou talk here about the only	12	at which it is supplied?
13	diesel plant at St. Lewis is currently in	13	A. I think that's perhaps a question better left
14	Hydro's future plans for replacement. This	14	to the rate's people.
15	project is tentatively scheduled for	15	Q. Okay, what about on the L'Anse au Loup system
16	completion in '06.	16	on the question of Demand Side Management,
17	A. That's the plant itself.	17	with this growth taking place, has Hydro
18	Q. The plant, yes. And what is the distinction	18	looked at any initiatives in L'Anse au Loup to
19	that you're drawing?	19	try to limit growth on the system?
20	A. No, I thought you were asking could there	20	A. I'm not aware of any specific initiatives that
21	possibly be any more diesel generators, stand-	21	the Customer Services Department might have
22	alone diesel generators that were going to be	22	looked at with regards to Demand Side
23	changed, either because of obsolete units	23	Management on the L'Anse au Loup system.
24 25	having to be replaced or increases in load growth in some of these Isolated communities.	24 25	Q. And that's the case, even though there's the possibility of having to put in a new
23			
	Page 59		Page 60
1	generator in '05?	1	every time, and I think Mr. Haynes mentioned
2	A. I'm not saying they haven't done it, I'm just	2	this in his evidence, every time we go for a
3	saying I'm not aware of anything that they may	3	capacity increase on an Isolated System,
4	be looking at.	4	whether it's the addition of an engine, the
5	Q. Okay, who would be the person to ask that question to?	5	increase in capacity of an engine, even changing out the capacity or its dissation
6	A. That would come out of our System Planning	6	(phonetic) service transformers to step the
7 8	Department and our Customer Services Group.	8	voltage up from the generator voltage to the
9	Q. Which would be Mr.?	9	distribution voltage. In every one of those
10	A. System Planning is in Mr. Hayne's area,	10	cases, the economic analysis division or
11	production division.	11	department within the system planning group,
12	Q. Right, but I kind of got the impression that	12	does a DSM Analysis to determine whether or
13	they wanted you to address Rural deficit, I'm	13	not there is some way there that we can defer
13	just trying to figure out who -	14	that particular capacity increase. Every
15	A. Well, if you want to talk about an initiative	15	single time. Even the Capital Budget
16	with regards to Demand Side Management on the	16	Proposals we bring before the Board, I'm sure
17	L'Anse au Loup system with regards to the	17	you will remember contained those DSM Analyses
18	witnesses that are coming forward, I can try	18	for each and every one of those. I'm not
19	to answer something after the break, if you	19	specifically aware of any particular program
20	have a specific question or I can refer that	20	that the System Planning Department or anybody
21	to Mr. Banfield.	21	else is looking at with regards to L'Anse au
22	Q. But I take it there is no plan that you are	22	Loup, but if we brought forward or
23	aware of to look at Demand Side Management	23	contemplated bringing forward a capacity
24	Programs for L'Anse au Loup?	24	increase in L'Anse au Loup, I can assure you
25	A. Not specifically. I mean, I have to say that	25	there would be a DSM Analysis completed as
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1 1	MR. MARTIN:	1	\$170,000.00 in impact on the Rural deficit by
2	part of that proposal.	2	virtue of these expansions. Now, did Hydro go
3	Q. But even though it's seriously being looked at	3	to the Provincial Government to get them to
4	now for '05, that's what your document	4	put this in, if this was needed for a fish
5	indicated a few minutes ago, that analysis is	5	plant?
6	not taking place yet?	6	A. I don't think it's fair to say, at least based
7	A. Not to my knowledge.	7	on my knowledge, that we went to the
8	Q. Right, okay. Let's just turn to a related	8	Provincial Government. I think Mr. Wells in
9	question and I want to look at this question	9	his testimony indicated that when he found out
10	of Charlottetown and Little Bay Island, and I	10	this was happening, he made some personal
11	take it you're familiar with the newwith the	11	contacts in that regard, but whether or not we
12	diesel plant expansions that took place there?	12	actually went forward and asked the Provincial
13	A. I am.	13	Government to pay for this, I'm not aware of
14	Q. Okay, let's go to NP-50, and the capital cost	14	that.
15	at Charlottetown was approximately a million	15	Q. When either of these projects came before the
16	six and Little Bay Islands was \$60,000.00.	16	Board, I take it the Board wasn't advised as
17	Now, the one up in Charlottetown, in fact in	17	part of the capital budget process, the impact
18	each of these cases that was brought about	18	that these expenditures would have on the
19	because of fish plant, either expansions or	19	Rural deficit?
20	openings?	20	A. Again, not specifically to my knowledge, no.
21	A. That's correct.	21	Q. And let's just look at NP-52 and the report
22	Q. And if we go to NP-51, we get the cost impact	22	that's attached, Section 5.3.5.
23	on the Rural deficit, if we just look at	22	A. Okay.
24	Charlottetown by way of example, depreciation	24	Q. I'm just waiting for Mr. O'Reilly to -
25	is 72,000 and financing is 96, so about	25	A. Oh, I'm sorry.
			•
1	Page 63 Q bring it up on the screen here. There we	1	Page 64 increase to one particular customer, similar
2	go. Now, inthis will be a document that was	2	to what would happen on the bulk electrical
$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	a report on Hydro's Isolated Diesel Systems,	3	system. If the load growth on the system is
4	and I take it this report went to the Board,	4	driving a new Granite Canal, we don't
5	and item 535 says "a new policy is required to	5	necessarily go for a contribution in aid of
6	cover the recovery of the capital cost of	6	construction of the customer that's driving
7	installing generating equipment at the request	7	that, and I think the same principle, if you
8	of a major general service customer. The	8	will, applied in their thinking on this
9	policy should have the same underlying	9	particular item.
10	philosophies and principles as the	10	Q. Let's just touch on those. NP-209 indicates
11	distribution and service line policy." And	10	that the policy has not been developed, line
11	when you come down to the action list, it's	11	11, and NP-210 says Hydro could not resolve
12	"prepare a new policy," et cetera.	12	the difficulty of assigning common generation
13	Responsibility is your department, and the	15	to one customer. But this report went to the
14	completion date is late 1994. Now was that	14	Board, if Hydro couldn't resolve the
15	ever addressed by TRO?	15	difficulty, did Hydro apply to the Board to
17	A. That was addressed by Hydro, I'm sure with	10	resolve the issue or to have the issue
17	input from TRO. This was before my time at	17	resolved?
18	TRO, but I know it was addressed. I believe	18	A. Not to my knowledge.
20	we responded in another RFI that when we had a	20	Q. So despite the implementation of 1994, Hydro
1	more focused look at this issue of a	20	simply continued on without bringing the issue
1 / 1	INTO TOCUTOR AL UNIT ISSUE UL A		
21		22	
22	contribution in aid of construction for	22	back to the Board for determination, even though it resulted in the Rural Deficit each
22 23	contribution in aid of construction for capacity increases, we found it extremely	23	though it resulted in the Rural Deficit each
22	contribution in aid of construction for		

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	Page 65		Page 66
1	MR. MARTIN:	1	A. Only that I can say we get a weekly report on
2	said I'm not aware of that. I can't say for	2	diesel fuel and if I remember correctly, it's
3	sure whether Hydro did or did not, not to my	3	gone from a peak of like 55 cents a litre in
4	knowledge.	4	February/March down to roughly 35 cents now.
5	Q. But not to your knowledge?	5	Q. Right.
6	A. No.	6	A. Something like that.
7	Q. Okay. Now I just have one short area to touch	7	Q. Yes, and that's why I was concerned. Those
8	on, Mr. Martin, and then I'm finished, and	8	newthe drop in diesel fuel prices will be
9	this deals with the price of diesel fuel for	9	reflected in the new filing that Hydro is
10	all of the diesel plants. When Hydro refiles	10	bringing forward next week?
11	its application, will that application have a	11	A. The latest diesel fuel forecast that we have
12	new price for diesel fuel?	12	from PIRA will be filed at the end of the
13	A. Yes, it will.	13	month.
14	Q. So it will be based on current pricing?	14	Q. Do you have a sense of the order of magnitude
15	A. It will be based upon the latest forecast we	15	that that will bring to the savings?
16	have for diesel fuel, the same as No. 6 fuel	16	A. No, I have no idea.
17	for Holyrood.	17	Q. Okay. We can probably do some math from the
18	Q. Okay. I'm not going to spend a great deal of	18	numbers. I won't bother to take you through
19	time on this. We were a little concerned	19	that. Thank you very much for your patience,
20	about there's some references in Mr. Haynes'	20	Mr. Martin. I appreciate it.
21	evidence that diesel fuel was being driven by	21	A. Thank you, Mr. Kelly.
22	the high short term fuel prices at the time	22	Q. Those are my questions, Chair.
23	that the application was filed. Do you know		CHAIRMAN:
24	how the diesel prices have changed from the	24	Q. Thank you, Mr. Kelly. Thank you, Mr. Martin.
25	spring to the fall?	25	We'll move now to Mr. Seviour.
	Page 67		Page 68
1	MR. SEVIOUR:	1	regards to our wood poles, both on the
2	Q. I'll be conducting the cross-examination, Mr.	2	transmission and the distribution systems, is
3	Chairman.	3	routine inspections and a replacement of poles
	CHAIRMAN:	4	when they deteriorate to the point that we
	Q. Good morning, sir.	5	have to replace them. They're rotted out in
	MR. SEVIOUR:	6	the base or whatever or at the connection
7	Q. Good morning, Mr. Chairman, Commissioners.	7	points, the cross arms or knee braces or
8	Good morning, Mr. Martin.	8	whatever. What we're planning on doing now,
9	A. Good morning, Mr. Seviour.	9	we did some limited testing in 1998/1999 when
10	Q. Mr. Martin, a couple of the areas I plan to	10	the Avalon upgrade was on the go and this
11	take you through in some detail have been	11	question of whether or not we should upgrade
12	covered by Mr. Kelly this morning, and I'll	12	the wood pole lines, as well as the steel
13	begin by asking you to turn up page seven of	13	lines. We did some limited testing back then.
14	your evidence. I have a couple of questions	14	We were somewhat surprised, I think, at the
15	on some items that are touched on, on that	15	amount of preservatives that we had lost on
16	page. At lines 11 to 13, there's reference to	16	average in a lot of these poles. At the same
17	an innovative approach to the management of	17	time, we did some treatment as well, boring
18	Hydro's wood poles that is being investigated	18	the base of the poles and connection points
19	and I'm not clear if this was the program you	19	and installing these boron rods, which
20	were discussing earlier this morning, but	20	basically dissolve over time and put the
21	could you elaborate and advise us what that	21	preservative back into the wood to try and
141			
22	program is?	22	protect the pole and extent the life of the
	program is? A. This is the Wood Pole Management Program that	22 23	protect the pole and extent the life of the pole. What we're doing this year is again
22			

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1 N	MR. MARTIN:	1	of the life of those poles.
2	We're going to test them. It's a non-	2	Q. Thank you. I think that completely answers my
3	destructive test where we can try to determin	ne 3	inquiry. Can I ask you about the next
4	the remaining strength of the pole compared		paragraph in your evidence dealing with the
5	what its initial strength would have been. We		Canadian Ohio Brass insulators? You indicate
6	are treating the poles with the boron rods.	6	that there's a systemic problem with these
7	We're doing the climbing inspections and so		devices and I wonder if you could indicate
8	to look at the rest of the system, the	8	what the nature of that problem was?
9	insulators, conductor and so on. There will	9	A. This is an industry-wide problem. It's
10	be an analysis of that information done. It	10	throughout North America, and in fact the
11	will be correlated with the information that	10	world, with the COB type insulator. Over
12	we got back in 1998, and one of the key thin		time, the cement that attaches the metal cap
12	is that we're also going back and revisiting	gs 12 13	and pin of the insulator to the porcelain body
13	some of the poles that we treated in 1998/99		of the insulator, it grows and it causes the
1	to see how well they've stood up since that		
15	• •		insulator itself to crack and obviously fault.
16	treatment was done five years ago. Dependit	-	This is a problem that was noticed back, I
17	upon the results of that and the analysis of	17	guess, in the early 1990s. We and every other
18	that, looking at a program to continue to do	18	utility that came across it initiated a
19	that throughout the entire system over a 10 to		program to replace them all. We have
20	20-year cycle, comparing that to the	20	proposals in next year's budget to do TL 233,
21	replacement of poles on an ongoing basis. If		I think it is, and it's partthat's of 230 kV
22	the cost benefit analysis clearly indicates	22	line and TL 214 which is a 138 kV line
23	that that's the way to go, we'll be bringing	23	treating the Doyles-Port aux Basques system.
24	that forward as a proposal to carry on with a		Once we do that, we'll have one 230 kV line
25	full-fledged capital program for the extension	n 25	left on the system where we have these
	P	Page 71	Page 72
1	insulators and that is transmission line TL	1	My recollection is when we brought forward TL
2	231 from Bay D'Espoir to Stoney Brook. W	/e'll 2	203s replacement program before the Board,
3	also have a couple of 138 kV lines and 69 k	V 3	this past spring, we had gone from a failure
4	lines from Howley down to the Hampto	on 4	rate of I think it was three percent to I'll
5	Jackson's Arm area that will still have this	5	say six percent. It was obvious that the
6	type of insulator on them, but we are very	6	failures were increasing and it was that
7	quickly coming to the end of the program to	o 7	determination that we felt justified in
8	replace these COB insulators.	8	completing the change out on that particular
9	Q. Okay, and I assume that -	9	line.
10	A. I think, just to complete the story.	10	Q. And was there a system wide cost benefit
11	Q. Sure.	11	analysis to the change out done by Hydro?
12	A. We also have a batch of similar type	12	A. No. I think it would be very difficult, at
13	insulators on the distribution system and we		least from my perspective, to do a cost
14	are currently trying to compile an inventory		benefit analysis. You're looking at the
15	of what's left out there on the various	15	reliability of the system and whether or not
16	distribution systems in regard to this	16	you want to sustain outages on your 230 kV
17	particular problem.	17	transmission backbone because of a known
18	Q. I assume that this is a case where there's no	18	problem, and again a known problem throughout
19	recourse against the manufacturer and that		the industry. So we felt it wise, as did
20	this is purely a cost to Hydro?	20	other utilities, I believe even Newfoundland
20	A. Yes, Canadian Ohio Brass went out of busin		Power had the same problem and they took the
21	in the mid 80s.	21	same action to get rid of these things and to
22	Q. And what was the percentage of failure of		ensure the reliability of the system.
1	these units that was identified, Mr. Martin?	23	Q. And had there, in fact, been system outages
101	mose units that was identified, with what the	24	Q. A the new more, in raci, been system bulages
24 25	A. I can't give you a specific answer on that.	25	which are attributable to failures of these

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1 1	MR. SEVIOUR:	1	voltage support on the system.
2	insulators?	2	Q. But they haven't been continuously used for
3	A. Yes, there were.	3	the last 25 years, and -
4	Q. And do I understand then that the cost of this	4	A. No, they haven't.
5	are capitalized?	5	Q and in terms of their useful life, Mr.
6	A. Yes, it is.	6	Martin, do you have an assessment as to their
7	Q. Okay. Jump ahead to page eight of your	7	likely useful life, notwithstanding the fact
8	evidence and you talk about the 54-megawatt	8	that they're currently at the 25-year age?
9	gas turbines, Stephenville and Hardwoods.	9	A. I mean, obviously we don't know for sure, but
10	A. Um-hm.	10	I did respond to an RFI and I want to make
11	Q. And you indicate that they've been in service	11	sure I don't contradict my answer in that one,
12	for more than 25 years.	12	if you'll just bear with me for a second. I
13	A. Right.	13	think it may be IC-284. Let's try that one
14	Q. And that there is a concern that as the units	14	first.
15	get older, they're going to require more	15	Q. And I think you have pulled it out, but this
16	maintenance. My reference, Mr. Martin, for	16	response indicates that they should be good
17	your assistance, is lines 25 to 28 of page	17	for another 15 to 20 years, all things being
18	eight. These units are, as I understand it,	18	equal?
19	in the nature of additional resources, as	19	A. Yes. Again, as long as we continue to take
20	opposed to continuously operating generating	20	care of them and maintain them properly, we
21	units. Is that correct?	21	should be able to get another 15 or 20 years
22	A. They had been used in emergency situations.	22	out of them.
23	They've also been used, as I understand it,	23	Q. Thank you. I wanted to ask you a couple of
24	for peaking purposes and they've been used, as	24	questions about the Burin Peninsula, where
25	well, in the synchronous condenser mode for	25	Hydro has a relatively small presence and
	Page 75	-	Page 76
1	Newfoundland Power has a significant presence.	1	obviously the responsibilities of those two
2	You may have been in the hearing room when	2	groups.
3	there was evidence touched on that indicated	3	Q. I appreciate that. Can youthe Whitbourne
4	that of the load on the Burin, 99.5 percent	4	office, it is an office of Hydro?
5	was Newfoundland Power and .5 percent was	5	A. It's what we call an area office in the
6	Hydro load. Do you recall that evidence?	6	Central region. It reports back in to our
7	A. Yes, I do.	7	central region headquarters in Bishop Falls.
8	Q. What is the level of the TRO workforce that	8	Q. And what is the size of that office, staff
9	would be dedicated to servicing the Hydro	9	wise?
10	customers on the Burin Peninsula?	10	A. I can guess. I don't like guessing. I'm
11	A. I can't give you a specific number. The	11	always wrong when I guess. If you'll just
12	resources for the maintenance and repairs to	12	bear with me, I may have that here somewhere
13	the transmission system down there works out	13	actually.
13	of our Whitbourne office. That's our	13	Q. Thank you.
15	transmission line crew. For distribution	15	A. Sometimes I forget the good information I do
16	services on the Monkstown Petit Forte systems,	16	have available. Are you thinking in terms of
17	including the recently interconnected	17	just the transmission crew or the total
18	Southeast Bight, those resources, our	18	office?
19	distribution crews are dispatched from Bay	19	Q. Let's start with the total office, please, and
20	D'Espoir.	20	then we'll talk about the service personnel
20	Q. Okay. So it'd be two separate service	20	that might be involved in the Burin work.
22	centres, if you will, maintained by Hydro	$\begin{vmatrix} 21\\22 \end{vmatrix}$	A. I'd say there's in the order of 20 to 25
22	which would be resources for the Burin	22	people there.
23	customers?	23	Q. And how many of those would be involved in
24	A. Yes, and again, they are only a portion of	24	doing the servicing done from Whitbourne on
125	in 100, and again, may are only a portion of		adding the ber rights done from whitebourne off

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1 1	AR. SEVIOUR:	1	MacCallum, as well as Fogo, St. Brendan's, all
2	the Burin Peninsula? Do you have a sense of	2	these various areas.
3	that?	3	Q. In other words, it's not just the Burin that
4	A. The transmission line crew itself, with the	4	they serve?
5	supervisor, is eight people.	5	A. Oh, my heavens, no.
6	Q. Eight people?	6	Q. And does that crew as well report to the
7	A. Yes. They are responsible for all of the	7	manager from central region?
8	maintenance on our high voltage transmission	8	A. Ultimately to the manager of the central
9	system from Oxen Pond here in St. John's right	9	region, yes.
10	through to Sunnyside, as well as down the	10	Q. Okay. There's been some evidence filed in
11	Burin Peninsula.	11	terms of the Newfoundland Power and Hydro
12	Q. Thank you. And they would report to the	12	cooperative efforts and their studies of
13	central region manager?	13	potential joint initiatives and I wonder if we
14	A. Yes, they do.	14	could just turn that up for a moment. It's
15	Q. Okay. And just in terms to complete this	15	Exhibit FHM No. 1. And my interest was at
16	loop, would we expect a similar service crew	16	page nine of the Exhibit. And you're familiar
17	would be supplied to the Monkstown area for	17	with this review process, are you, Mr. Martin?
18	issues arising down there and they would come	18	A. Yes, I am.
19	from the Bay D'Espoir offices of Hydro?	19	Q. I wanted to touch on two areas. One is the
20	A. If I remember correctly, the distribution crew	20	one described under working group No. 8, and
21	in Bay D'Espoir is again eight people, eight	21	this deals with, in the second paragraph, the
22	or nine people. But again, they're	22	joint cooperative effort in providing
23	responsible for everything, I think, from	23	emergency service and I understand that that
24	Southeast Bight, Petit Forte on the eastern	24	applied on the Burin Peninsula, from earlier
25	end of the island, through to, I believe it's	25	evidence that was before the Board.
	Page 79		Page 80
1	A. That's correct.	1	and get our customer service restored as
2	Q. Okay. What exactly does this all involve?	2	quickly as possible.
3	How does this all work?	3	(10:47 a.m.)
4	A. What happens here is if we have an outage for	4	Q. That what I was trying to understand, it's a
5	even say in the Petit Forte system and we need	5	response time issue. What do you know about
6	someone to respond, there is a protocol	6	Newfoundland Power's level or resources on the
7	established whereby we can contact	7	Burin?
8	Newfoundland Power and ask them to respond to	8	A. I have no detailed knowledge of their
9	that emergency situation, and they will go	9	resources at all.
10	into the community. They will locate the	10	Q. That's fine. We can deal with them on that.
11	problem. They will fix the problem and then	11	Just moving down the page, on page nine of
12	they will charge us accordingly as per the	12	this report, there's reference to cooperation
13	memorandum of understanding that's referenced	13	with respect to switching arrangements.
14	here in the document.	14	A. Yes.
15	Q. Okay. And what circumstances would they do	15	Q. Can you explain what this all involves and
16	that service for Hydro, given the available	16	help us out on that?
17	Hydro resources that you've described?	17	A. Yes. Again, any time that there needs to be
18	A. In a situation where we have an outage to a	18	any switching done on the system, either
110	community and we cannotwe could not possibly	19	switching required for routine maintenance or
19		1	to provide isolation for a faulted section of
19 20	get the community back on, you know, rather	20	-
20 21	than respond from Bay D'Espoir, we would first	21	line, so we can get the rest of the system
20 21 22	than respond from Bay D'Espoir, we would first ask Newfoundland Power to respond from their		line, so we can get the rest of the system restored, again, under the same type of
20 21 22 23	than respond from Bay D'Espoir, we would first ask Newfoundland Power to respond from their crews down on the Northern Peninsula. I think	21 22 23	line, so we can get the rest of the system restored, again, under the same type of protocol, we can call upon Newfoundland Power
20 21 22	than respond from Bay D'Espoir, we would first ask Newfoundland Power to respond from their	21 22	line, so we can get the rest of the system restored, again, under the same type of

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1 N	MR. MARTIN:	1	1 some work for them and so on. But	
2	Again, it's a response initiative in an	2	2 specifically on the Burin, no, I don't think	
3	emergency situation.	3	3 there's anything else.	
4	Q. And I've looked through this report and apart	4	4 Q. So you've got switching and emergency support,	
5	from these two particular initiatives I have	5	5 and that really, apart from the other general	
6	taken you to, the emergency support by	6	6 initiatives, is that -	
7	Newfoundland Power and the switching	7	7 A. Perhaps before I answer I should just quickly	
8	arrangements, are there any other Newfoundland	8	8 have a look at what else we've got here.	
9	Power/Hydro cooperative efforts that relate to	9	9 Q. Please do.	
10	the Burin system, do you know?	10	0 A. Again, there's the sharing of services and	
11	A. With regards specifically to the Burin system?	11	1 equipment. If there's a specific requirement	
12	Q. Yes.	12	2 for some equipment or whatever that they may	
13	A. Not in particular. I mean, I know we have	13	3 need on the Burin, there is a protocol in	
14	other initiatives underway with regards to we	14	4 place where we can loan them equipment to	
15	do joint training exercises. As a matter of	15	5 respond to a situation down there. I think	
16	fact, I believe right now, we're involved with	16	6 that's pretty much it.	
17	Newfoundland Power in a training exercise	17	7 Q. Thank you, Mr. Martin. I wondered if, just to	
18	involving some of our people at Whitbourne.	18	8 finish up in this area, this emergency support	
19	So that would be one area that, although it's	19	9 that Newfoundland Power provides from time to	
20	not specifically related to the Burin, it is	20	time, you know, how frequently is that availed	
21	indirectly related, if you will, and there are	21	of? Is it something that's a daily event or a	
22	certainly other initiatives that we have	22	monthly event? What's the situation there?	
23	ongoing with Newfoundland Power of a more	23	A. No, I certainly wouldn't think it's a daily	
24	general nature, like our meter testing, our	24	event. It's certainly something that we've	
25	protective equipment test facilities, doing	25	taken advantage of in emergency situations.	
	Page 83		Page 8	84
1	They have done switchingI believe it says in	1		
2	the document here, they have done switching	2		
3	for us in Monkstown and in other locations,	3		
4	and we for them at locations where we can help	4		
5	them out. They certainly have responded to	5	5 Q. Thank you, Mr. Martin. Those are my	
6	trouble calls on our distribution system down	6		
7	there. It's certainly not a daily or even	7	7 CHAIRMAN:	
8	weekly even, but when it's necessary, they	8		
9	respond, as do we where we can help them.	9		
10	Q. And given the minimal presence of Hydro on the	10	0 HUTCHINGS Q.C.:	
11	Burin Peninsula, relative to Newfoundland	11		
12	Power, have you, in your capacity as a senior		2 CHAIRMAN:	
13	executive within Hydro, been party to any	13		
14	discussions or considerations of the transfer	14		
15	of those assets to Newfoundland Power?		5 MR. KENNEDY:	
16	A. No, in my brief tenure, I have not.	16		
17	Q. And you're unaware of any consideration of	17		
18	that issue at your level now? Is that	18		
19	correct?	19		
20	A. Yes, that's correct.	20		
21	Q. And just finally, so I have a complete picture		21 CHAIRMAN:	
22	and the Board has the complete picture, apart	22		
23	from the Whitbourne office and, I think	23		
24	there's a warehouse there, if I understand the		4 MR. KENNEDY:	
25	evidence correctly, is there any other	25		
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1	(BREAK AT 10:53 A.M.)	1	which is forecast and I guess we'll get to
2	(RECONVENE AT 11:24 A.M.)	2	2004 when the document is updated with the
3 0	CHAIRMAN:	3	latest revised financial figures, but could
4	Q. Thank you. Mr. Kennedy re-jog your questions?	4	you explain or do you have an explanation for
5 N	IR. KENNEDY:	5	why the 2001 figure is as low as it is and why
6	Q. I have, Chair. I think we'll all benefit from	6	it would have gone back up again in 2002?
7	the break, especially the witness.	7	A. No, I really don't have an explanation.
8 0	CHAIRMAN:	8	Q. I was just wondering, maybe, the Grant
9	Q. When you're ready, please.	9	Thornton report on the 2003 application, at
10 N	IR. KENNEDY:	10	page 42, and this is the section that Mr.
11	Q. I have mostly just some very short snappers	11	Kelly had some questions concerning, but it
12	for you, Mr. Martin, that cover a number of	12	was the first line in 2002, "There was a
13	different areas. The first one I wanted to	13	significant increase in the TRO division which
14	ask you about was undertaking number three,	14	was primarily due to certain non-recurring
15	that's the KPI documents. And the line that	15	extra maintenance costs in the central and
16	I'm interested in is under "Productivity", the	16	northern regions." And I think some of those
17	transmission controllable cost figures.	17	expenses would have been transmission related
18	A. Yes.	18	so I thought well that might explain why the
19	Q. And this is the OM&A cost per 230 kilovolt	19	2002 figure is higher than the 2001 figure,
20	equivalent circuit by kilometer. And you've	20	but the 2003 figure is still higher than the
21	gotin 2001 the figure worked out to \$3,883	21	2001 figure by a fair amount? That doesn't
22	and you can see that that figure is	22	jog anything, does it, in your memory?
23	significantly below the 2000 figure and	23	A. No, it doesn't. George is not speaking to me
24	significantly above 2002, given that these are	24	andno, I'm sorry, I can't help.
25	costs per kilometer. And then 2003, 4,304,	25 (	(11:31 a.m.)
	Page 87		Page 88
1	Page 87 Q. The other question which was productivity	1	Page 88 of kilometers per line worker, and that's the
1 2	C	1 2	-
	Q. The other question which was productivity		of kilometers per line worker, and that's the
2	Q. The other question which was productivity related was that at page 9 of your pre-filed	2	of kilometers per line worker, and that's the basis, if you will, that resulted in the
2 3	Q. The other question which was productivity related was that at page 9 of your pre-filed testimony, line 14, you indicate, "After	2 3	of kilometers per line worker, and that's the basis, if you will, that resulted in the analysis and the conclusion that we could
2 3 4	Q. The other question which was productivity related was that at page 9 of your pre-filed testimony, line 14, you indicate, "After bench-marking the number of Hydro's line	2 3 4	of kilometers per line worker, and that's the basis, if you will, that resulted in the analysis and the conclusion that we could eliminate some of these positions. But
2 3 4 5	Q. The other question which was productivity related was that at page 9 of your pre-filed testimony, line 14, you indicate, "After bench-marking the number of Hydro's line workers and driver ground workers against that	2 3 4 5	of kilometers per line worker, and that's the basis, if you will, that resulted in the analysis and the conclusion that we could eliminate some of these positions. But specifically which utilities, I don't know.
2 3 4 5 6	Q. The other question which was productivity related was that at page 9 of your pre-filed testimony, line 14, you indicate, "After bench-marking the number of Hydro's line workers and driver ground workers against that of similar utilities, it was concluded that	2 3 4 5 6	<ul><li>of kilometers per line worker, and that's the basis, if you will, that resulted in the analysis and the conclusion that we could eliminate some of these positions. But specifically which utilities, I don't know.</li><li>Q. So just leaving aside then the issue of the specific utilities, the analysis involved</li></ul>
2 3 4 5 6 7	Q. The other question which was productivity related was that at page 9 of your pre-filed testimony, line 14, you indicate, "After bench-marking the number of Hydro's line workers and driver ground workers against that of similar utilities, it was concluded that there were areas where improvements could be made and efficiencies gained and consequently,	2 3 4 5 6 7	of kilometers per line worker, and that's the basis, if you will, that resulted in the analysis and the conclusion that we could eliminate some of these positions. But specifically which utilities, I don't know. Q. So just leaving aside then the issue of the
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1 1	AR. KENNEDY:	1	indicated, or early next year for 2004? Would
2	preceding years. Is there a simple	2	that be the case for your department as well?
3	explanation for why the 2003 figure seems to	3	A. Yes, we'll be looking at additional indicators
4	be out of whack?	4	as deemed appropriate by the Board for
5	A. Yes, I think 2003, the both electrical systems	5	reporting to the Board. Certainly SAIDI and
6	are going to put a lot of our statistics or at	6	SAIFI on the bulk electrical system and the
7	least some of our statistics out of whack with	7	distribution systems is one of the measures
8	regard to the number of major outages we've	8	that we are always concerned with.
9	had. I'm thinking the failure of the	9	Q. Would you have, or is it your intention to set
10	lightning arrestor at Oxen Pond on January	10	a target for 2004 of what you hope your SAIDI,
11	30th of this year. We had a double lightning	11	SAIFI and SARI are going to be?
12	strike on two, 230 kV lines east of western	12	A. Yes, we will.
13	Avalon. I believe that was in July. In March	13	Q. And in the case of like a SARI figure, there's
14	of this year we had a jumper pad, an aluminum	14	a fair amount of volatility it appears in the
15	jumper pad fail at our Stoney Brook terminal	15	number year over year as the result of
16	station which caused a blackout of the west	16	abnormal weather events and the like?
17	coast. There's been a significant number of	17	A. Yes, there's a significant variability.
18	what I'll call major outages this year that I	18	Q. Do you try to smooth that out and normalize it
19	think would have impacted on that particular	19	somehow by looking at SAIDI, SAIFI and SARI
20	number.	20	figures that are driven by events over which
21	Q. So the figures indicated by Mr. Haynes that,	21	you have control versus events over which you
22	in sofar as for the area that he covers,	22	have no control?
23	targets would be identified for some of these	23	A. We haven't, to date, to my knowledge, done
24	productivity indices related to generation	24	that. We've typically taken the statistics
25	specifically later on this year, I think he	25	based on the raw data. I can tell you as an
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1	exercise we're now starting to look at the	1	and maintain, if not improve the overall level
2	SAIDI and SAIFI numbers on the bulk electrical	2	of reliability on our system. It's not the
3	system over the last ten years to see what	3	number itself that drives us. It's a good
4	kind of trend we're seeing in the reliability	4	indicator of where we are and how we're doing,
5	of the system and I think it's going to be	5	but that in itself as you suggest can be all
6	evident from that that there is a significant	6	over the map. It can be very misleading if
7	improvement in the overall reliability of the	7	you don't know the root causes of what some of
8	system or say the last ten year period.	8	these outages are.
9	Q. So, can I ask you what drives your target for	9	Q. So it's a case then of in the Avalon upgrade
10	reliability in the aspects of the operation	10	project, it's an analysis conducted to see
11	for Hydro that you have responsibility for?	11	what the reliability has been for that system
12	A. On the bulk electrical system we look at the	12	prior to the work being performed I mean and
13	SAIDI and SAIFI. But having said that, it's	13	then a judgment based engineering decision
14	not just good enough to look at the specific	14	exercised ultimately, to determine whether to
15	numbers themselves. We need to look at the	15	proceed with the upgrade?
16	root causes of the problems we're having on	16	A. I think it's a little more than just a
17	the system. And as I think I mentioned in my	17	judgment. I mean on the Avalon upgrade,
18	direct testimony, we typically propose	18	typically transmission lines were designed in
19	programs and projects to correct known	19	the late 60s looking at one or one and a half
20	problems. And, again, I'll go back to the	20	inches of radial ice as a loading. Over the
21	lightning arrestors on TL-206, the re-routing,	21	years we experienced much heavier loadings of
22	if you will, of TL-220 on the Conaigre	22	that and on a much more frequent basis. So if
23	Peninsula, the Avalon upgrade project, the	23	we were to prevent these prolonged black-outs
24	program we got for TL-214, these are all	24	that we experienced in the 70s, 80s, and early
25	targeted at correcting known problems to try	25	90s, we needed to do something with regard to

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1 MR. MARTIN:		1	Q. I guess it's a question of when do you know
2 the design criteria. S	o we did a detailed	2	when to stand pat, for instance?
3 analysis, wrote the rep	oort and brought forward	3	A. I think you're right. In that particular
4 the proposal to up	grade the Avalon	4	aspect there's a lot of judgment goes into it.
5 transmission system.	-	5	But, again, I think I take comfort in the
-	that Avalon transmission	6	process that we go through with regards to
	presumably improve the	7	bringing these proposals forward. I mean
8 reliability of that syste		8	first of all there's the internal review in
9 A. Absolutely.		9	the engineering and operations groups. The
Q. And then, in turn, y	our overall system.	10	proposals and justifications are brought
reliability statistic wil	-	11	forward to the management in the areas.
12 A. Exactly.	<u>F</u>	12	They're brought forward to the executive
13 Q. You'll agree with me	then that in areas of	13	management of Hydro. They're approved by the
-	en improvement of those	14	Board and ultimately they're brought forward,
numbers, for like ag	-	15	obviously, to the Board of Commissioners for
-	nission system will end	16	final approval and debate and discussion with
÷	away from your overall	10	regards to all the customers. So there's a
system reliability.	away nom your overan	18	fairly rigorous and onerous approval process,
A. They could. Again, I	would suggest that if it	18 19	if you will, with regards to turning over
-	n problem that we were	20	every stone and making sure that we're all
-	particular sub-systems,	21	comfortable with regards to what we're
÷	uld come up with what we	22	proposing to do on the systems.
thought was a reason		23	Q. And I take it then you're confident that that
	ld bring that forward as	24	process that is in place is sufficient to
a proposal to remedy	that particular problem.	25	ensure that the projects that do ultimately go
	Page 95		Page 9
	are required, that would	1	use programmable logic controllers for the
2 be your position?		2	automation of our diesel plants. And this
3 A. It is.		3	reduced the requirement for full-time staff to
4 Q. I wonder if we could j	10	4	be available there and reduced the number of
5 your pre-filed. And	-	5	operators we needed. These control systems
÷	n Cost Containment", you	6	can automatically schedule units on and off
7 refer down at line	-	7	depending on the load profile. They can do
8 initiatives implem	ented include	8	other kinds of data collection, data trending
9 interconnecting isolate	ed systems to the main	9	and so on. That's one of the first ones that
10 grid were cost effecti	ve", so that would be	10	comes to mind where we use technology, if you
the L'anse au Loup pr	oject, for instance, as	11	will, to try to control or at least minimize
an example of that?		12	the increases in the deficit.
A. And Southeast Bight,	Westport, LaPoile, all of	13	Q. Is there anything on the horizon for new
these interconnections	s, yes.	14	technologies that Hydro is looking at that
15 Q. And just skipping the	next one, you reference	15	would generate further cost savings?
16 multi-skilled workford	ce and that's your DSR	16	A. Well, I think I mentioned again in the direct
	en to that. And as well	17	testimony we are doing a demonstration project
	en to that. There's one	18	now on a wind farm down at Ramea. I think
· .	new technologies. Is	19	it's everybody's expectation that in the
	fic that you have in mind	20	future, wind energy will become cost effective
21 when you're referrin	-	21	and be able to be utilized on some of these
-	ald hope to have some	22	systems. I think everybody is looking forward
÷	these isolated systems?	22	to the day when perhaps fuel cells may get to
A. The first one that com	-	23 24	the point where they're cost effective,
25 is back in the early 90		24 25	compared to diesel systems. But right now
is ouck in the early A		25	Page 93 - Page 96

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iginal question, I don't
the Board.
junction with your diesel
bines, they would be akin to
y or sort of storage
tes similar to a run on
ation plant, correct?
re non-dispatchable, if
the winds blows and they
ke the energy and defer
int.
Hydro's perspective, well
fuel and that's what
y for the energy out of
the person who is
turbine to ensure that
at a cost lower than what
revenue.
, yes.
e or has it identified any
vis, the installed plant
it that would be achieved
vind turbines, other than
Page 100
re it works out well and
ture sites, it may have
wind turbines are not
for having capacity
need it. I assume there
n the island of Ramea, at
our pre-filed testimony,
fer to some of the plant
you did in some of your
ne 4 there. And then
ter you refer to since
Grey River, Port Hope
MacCallum, it says "Also, a
completed at Ramea."
_
ajor upgrade at Ramea and
mehow to this wind
nat's being proposed for
de at Ramea was done some
sure of the exact year.
late 90s. And it waswe
e plant, put in three new

Page 101Page 1011 MR. MARTIN:12 engines there. We upgraded the building and23 some of the other sub-systems in the facility34 because they had deteriorated to the point45 where we could no longer provide reliable56 service to that community. It had absolutely67 nothing to do with the wind project at all.78 Q. So given that Hydro went through this major89 refurbishment at Ramea and so presumably your910 plant there is as good as any of the ones that1011 you have in the -1111 you have in the -11
<ul> <li>engines there. We upgraded the building and</li> <li>some of the other sub-systems in the facility</li> <li>because they had deteriorated to the point</li> <li>where we could no longer provide reliable</li> <li>service to that community. It had absolutely</li> <li>nothing to do with the wind project at all.</li> <li>Q. So given that Hydro went through this major</li> <li>refurbishment at Ramea and so presumably your</li> <li>plant there is as good as any of the ones that</li> <li>you have in the -</li> </ul>
<ul> <li>some of the other sub-systems in the facility</li> <li>some of the other sub-systems in the facility</li> <li>because they had deteriorated to the point</li> <li>where we could no longer provide reliable</li> <li>service to that community. It had absolutely</li> <li>nothing to do with the wind project at all.</li> <li>Q. So given that Hydro went through this major</li> <li>refurbishment at Ramea and so presumably your</li> <li>plant there is as good as any of the ones that</li> <li>you have in the -</li> <li>some of the other sub-systems in the facility</li> <li>project would select the site, where they</li> <li>would want to install it.</li> <li>Q. A question was considering inter-company</li> <li>transactions and I wonder if we could go to</li> <li>page 48 of Grant Thornton's 2003 report. The</li> <li>amounts involved aren't very large for</li> <li>transmission of rural operations as you can</li> <li>see from that table but I just had a couple of</li> <li>questions first about the specific numbers.</li> </ul>
<ul> <li>because they had deteriorated to the point</li> <li>where we could no longer provide reliable</li> <li>service to that community. It had absolutely</li> <li>nothing to do with the wind project at all.</li> <li>Q. So given that Hydro went through this major</li> <li>refurbishment at Ramea and so presumably your</li> <li>plant there is as good as any of the ones that</li> <li>you have in the -</li> <li>would want to install it.</li> <li>Q. A question was considering inter-company</li> <li>transactions and I wonder if we could go to</li> <li>page 48 of Grant Thornton's 2003 report. The</li> <li>amounts involved aren't very large for</li> <li>transmission of rural operations as you can</li> <li>see from that table but I just had a couple of</li> <li>questions first about the specific numbers.</li> </ul>
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10plant there is as good as any of the ones that10see from that table but I just had a couple of11you have in the -11questions first about the specific numbers.
11you have in the -11questions first about the specific numbers.
12A. It's one of the best ones.12There was an amount, presumably, forecast for
13Q in the rural isolated areas. Was there any13the 2002 test year in your 2001 GRA that there
14 consideration given by Hydro to if you're 14 would be charges to CF(L)CO from TRO of
15going to try an alternative project like the15135,500 and the number ended up coming in at
16 wind generation, of putting it somewhere other 16 67,387. Now, in actual fact, that would have
17 than Ramea where the plant may not be in as 17 beenthe 135,500 would have reduced the
18 good as shape and therefore, the wind 18 revenue requirement for the 2002 test year,
19generation might be more useful?19correct?
20 A. Well I think the actual siting was perhaps 20 A. Yes.
21 chosen by the Proponent based upon the wind 21 Q. So the fact that there was only 67,387 in
regime available and I guess in their analysis 22 charges by Hydro to CF(L)CO didn't hurt the
23 Ramea was the best place that they thought 23 rate payer, but is there a reason why the
24 they had an opportunity to put this thing and 24 figure came in only at half of what was
25 to make it work. It was in a system again 25 projected?
Page 103 Page 10
1 A. I can only assume and I believe there was a 1 that over into 2004.
2 project that they had intended us to look at 2 Q. Do you yourself end upwould your own time be
3 on their transmission system up in Labrador. 3 included in that \$37,000 for 2004? Would you
4 And I believe at the end of the day they 4 to expect to complete work for CF(L)CO in
5 decided not to go ahead with that particular 5 2004?
6 work. That's the only thing I could put it 6 A. I would not personally. I think the work that
7 down to, that there was something planned that 7 would be included in here would be work by our
8 they had budgeted for, that we had budgeted 8 engineering department in support of their
9 for and it just didn't materialize. 9 transmission system and perhaps some support
10Q. According to the Grant Thornton report here10from our environment department as well.
and it would have been information obtained, 11 Q. Do any members of your division in TRO, your
12 presumably from your application or their own 12 engineering department or your environmental
13 direct analysis of Hydro that the forecast 13 services provide services to any company other
14 2003 charged to CF(L)CO by TRO was \$37,000. 14 than CF(L)CO?
15 Do you know if you're tracking at that same 15 A. Yes. Outside, like I mentioned before, we
16 level for 2003? 16 have provided support to the federal
1010101010101017A. I really don't know.17government on the Natuashish project. That's
1717181818181818181810101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010101010
19     A. No.       19     Q. And I think it was established that the cost
19A. Ho.19Q. Find Fullink it was established that the cost20Q. Would you have any involvement then in the20recovery or that the charge out there for the
21 setting of the budget for your forecast 2004 21 work that you've done for the federal
22 test year of the same amount, 37,000? 22 government is just based on a cost recovery
2212212212212212212223A. Yes, I think what would have been done there23123123124
<ul> <li>24 is if we had what we thought was a reasonable</li> <li>24 A. That's correct.</li> </ul>
<ul> <li>estimate for 2003 we would have just carried</li> <li>Q. Just one last question concerning your street</li> </ul>
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### Discoveries Unlimited Inc., Ph: (709)437-5028

October 27, 2003

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11	MR. KENNEDY:	1	left unturned.
2	lighting. You referenced, I believe it was in	2	Q. You're aware that there's a third alternative
3	your direct testimony that you'd been	3	for street lighting involving low pressure
4	switching from mercury vapour lamps to high	4	sodium bulbs?
5	pressure sodium lamps?	5	A. I'm very aware of that.
6	A. That's correct.	6	Q. And could you explain why you wouldn't have,
7	Q. And high pressure sodium lamps in your street	7	or is it Hydro's intention to review its
8	lighting would use less energy than the	8	policy in that regard and use low pressure
9	mercury vapour, that would be the reason for	9	sodium bulbs because I believe they use lower
10	switching?	10	energy again, do they not?
11	A. That's correct.	11	A. My understanding is they do and I'm sure you
12	Q. And you described as well, I think, or some of	12	remember this was brought up at the capital
13	the witnesses, about the great lengths that	13	hearing. Hydro made the commitment at that
14	Hydro has gone through to decrease the amount	14	time to have a look at this whole issue of the
15	of energy consumption that it itself is	15	dark skies and whether or not low pressure
16	responsible for in its rural isolated	16	sodium lamps could be used for street and area
17	communities, which included switching out to	17	lighting. And we fully intend to do that. I
18	florescent light bulbs, I believe, in your	18	hope you'll appreciate we haven't made a lot
19	plants you indicated?	19	of progress on that front yet, but it is
20	A. That's correct.	20	certainly our intention to come back to you
21	Q. That there was no rock left unturned to try to	21	with a formal response in that area.
22	determine how you could lower the amount of	22	Q. That's all the questions I have, Chair,
23	energy that you were consuming in these rural	23	Commissioners. Thank you, Mr. Martin.
24	isolated communities.		CHAIRMAN:
25	A. There was no rock that we could find that was	25	Q. Mr. Martin, we'll move now to re-direct. Ms.
	Page 107		Page 108
1	Greene, please.	1	A. No, it isn't. There is approximately another
	GREENE, Q.C.:	2	300,000 dollars in transportation accounts. I
3	Q. Thank you, Mr. Chair. Actually I do have a	3	believe it's in the finance department and the
4	limited number of re-direct and then we will	4	human resources and legal department.
5	be in a position to respond to the	5	Q. And production as well, I believe?
6	undertakings that were given on Friday by Mr.	6	A. And production.
7	Martin following the re-direct. The first	7	Q. And I wonder if we could go, please, to
8	question in re-direct arises from questioning	8	Schedule 2 of Mr. Roberts' evidence. If we
9	by Mr. Kelly and here if we could, please, go	9	just see the heading on that Schedule 2,
10	to the transcript, Mr. O'Reilly of October	10	please, this is "Overall Corporate", is that
11	24th at page 115. And in reading the transcript there was some confusion in my mind	11	correct, Mr. Martin? A. That's correct.
12	transcript there was some confusion in my mind with respect to the transportation budget. If	12	Q. And the transportation is shown there in line
13 14	with respect to the transportation budget. If we look at page 115 and it's reallyit's in	13 14	18, could you indicate what it is forecast for
14	the question starting on line 8 going down to	14	2004 for Hydro overall, please?
15	I guess line 15 where we're talking about the	15	A. It's two million, forty-four thousand for
17	size of the TRO transportation budget in	10	2004.
18	relation to the overall Hydro transportation	18	Q. The next question arising in re-direct is also
19	budget. And I wonder, please, if we first	19	I believe in discussion, this time with Mr.
20	could look at your Schedule 6, Mr. Martin.	20	Browne and it related to whether there are
20	The transportation budget forecast for 2004	20	mobile diesel units that are available to
22	for your area of TRO is how much?	21	Hydro and here, please, if we could go to the
23	A. It's 1.73 million dollars.	23	transcript, Mr. O'Reilly, of October 24th at
24	Q. And is that the entire budget for Hydro for	24	page 128. And it begins there, the discussion
25	transportation for 2004?	25	with respect to the GNP and as to whether we
	· · · · · · · · · · · · · · · · · · ·	1-0	

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	JUCI 27, 2005 WIULU	-1 6	age INE Hydro's 2005 General Rate Application
	Page 109		Page 110
1 0	REENE, Q.C.:	1	Roddickton. They are also classified as
2	have portable diesels that would be available	2	mobiles but they are connected to the system
3	and if you look at your answer that begins	3	in a standby mode waiting for the call for
4	there on line 17 down to lines 24 and if you'd	4	production.
5	look specifically at line 22 your answer was,	5	Q. Would they be able to be moved to respond to
6	"To answer your question in the context in	6	an emergency?
7	which you're putting it, I would have to say	7	A. Yes, they could. If we got into a serious
8	now we don't have any mobile generation up"	8	problem somewhere with some time, perhaps a
9	could you go to the next page"there that	9	day or so, be able to be moved to respond in
10	could quickly respond to a problem in some	10	an emergency situation.
11	small community, no." And I wanted you to	11	(12:00 p.m.)
12	explain the context of your answer first.	12	Q. So the period of time required to get them
13	A. Yes, I thought the question was being asked do	13	into service I take it is for several hours?
14	we have any mobile units that are available at	14	A. At least several hours, if not longer, yes.
15	regional offices or depots that are just	15	Q. Does Hydro have access to any other mobile
16	sitting there in containers waiting to go to a	16	diesel units?
17	remote location, should we have a problem.	17	A. Hydro has access to Newfoundland Power's seven
18	And the answer to that is no. Specifically,	18	and a half megawatt gas turbine which I think
19	we do have five mobile diesels right now;	19	is normally located at Port aux Basques, as
20	three of them are in-service, if you will at	20	well as I believe a 700 kilowatt mobile diesel
21	St. Lewis, Charlottetown and Little Bay	21	generator set.
22	Islands to provide load to customers on those	22	Q. And Hydro would request that of Newfoundland
23	systems. And of course we have the other two	23	Power again if there was an extended outage
24	what we call mobile diesels at the Roddickton	24	where that mobile could be of service?
25	diesel generating facility in the community of	25	A. Yes, those particular gen. sets come under our
	Page 111		Page 112
1	MOU with regards to the sharing of resources	1	positions you're saying that approximately 40
2	that we have with Newfoundland Power.	2	percent of Hydro's complement is non-union?
3	Q. The next question in re-direct arises on the	3	A. That's correct.
4	cross-examination of Mr. Kelly and there was a	4	Q. What type of positions are in that 40 percent
5	fair bit of discussion with you with respect	5	figure?
6	to the staffing changes in TRO and in Hydro,	6	A. They're obviously not all supervisory people,
7	generally. And there was some discussion with	7	there's a lot of those people that are non-
8	respect to the union versus the non-union	8	supervisors but they are also not in the union
9	distribution of those changes in staffing.	9	and there'sto give you some examples, our
10	And just to illustrate, I wonder if we could	10	engineering staff, all the members of our
11	bring up, please, Mr. O'Reilly, CA-42. Could	11	environment department, administrative
12	you scroll down, please, I just wanted to see	12	assistants and other clerical type staff would
13	theokay. The status there is shown as M and	13	not be classified as union employees.
14	NM by each position and if you go back up,	14	Q. And for ease of convenience in doing the RFIs,
15	could you please read beginning there at line	15	they were put in as M for management because
16	11 what the NM means, Mr. Martin?	16	they are not in the union, is that correct?
17	A. NM represents bargaining unit and N represents	17	A. That's correct. The M does not necessarily
18	non-bargaining positions.	18	mean that they're managers or even
19	Q. So with respect to Hydro, what is the	19	supervisors.
20	breakdown between union and non-union	20	Q. The next question in re-direct arises from the
21	positions at Hydro?	21	questioning of Mr. Kelly this morning with
22	A. Hydro's structure is such that 60 percent of	22	respect to RCM. And I haven't had the benefit
100	its workforce are bargaining unit positions;	23	of reading the transcript and there was one
23			
23 24	40 percent are non-bargaining positions. Q. So when the M there represents non-bargaining	24	area where there was some confusion, at least in my mind, with respect to that. And I'd

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	Page 113	3	Page 114
1 (	GREENE, Q.C.:	1	maintenance and travel, is that correct?
2	like first to look at CA-113. And is that	2	A. That's correct.
3	correct, Mr. Martin, that the savings you have	3	Q. And if we go to Schedule 5 attached to your
4	estimated, TRO has estimated to be available	4	evidence -
5	from the RCM initiative in TRO is forecast to	5	A. Yes.
6	be approximately a million dollars in 2004?	6	Q. You would see in the 2004 forecast that the
7	A. That's correct.	7	RCM has been reflected in the numbers shown in
8	Q. Now the next RFI raised is NP-277, page three	8	those particular categories, is that correct?
9	of three. Now NP-277 provides a breakdown of	9	A. That's correct.
10	the million dollar estimate for RCM, is that	10	Q. In the course of your discussion with Mr.
11	correct?	11	Kelly this morning, there was some reference
12	A. That is correct.	12	to \$350,000.00 being the non-salary component
13	Q. And is the million dollar savings from RCM	13	and as to where that was, can you please
14	reflected in the 2004 test year revenue	14	expand on that?
15	requirement?	15	A. Where I was getting mixed up in my own mind, I
16	A. Yes, it is. It is reflected in Schedule 5 in	16	think, was the relationship between the
17	the salaries and fringe benefits account, the	17	dollars we're looking at in RCM, versus the
	-		cost of our Wood Pole Management Program. The
18	system equipment maintenance account and the travel account.	18	6 6
19		19	RCM initiative, the savings as a result of
20	Q. And line 11 there refers to CA-202. Can we go	20	that program are reflected in the salaries,
21	to that, please, because I think that shows	21	system equipment maintenance and travel
22	what you've just said. So the savings that	22	budgets.
23	have been estimated arising from RCM are	23	Q. In 2004 revenue -
24	indicated in the TRO in the area of salaries	24	A. In 2004.
25	and fringe benefits, system equipment	25	Q. So they are not to be found in the enhanced
	Page 115	5	Page 116
1	vacancy adjustment.	1	Q. The last thing in re-direct arises again, from
2	A. No, they are not.	2	Mr. Kennedy and there was some reference to
3	Q. Turning now to the discussion with Mr.	3	the key performance indicators that you use in
4	Kennedy, the cross-examination by Mr. Kennedy.	4	evaluating performance from your perspective
5	Again, there was one small area that I wanted	5	in the TRO division. And I just wanted to
6	to explore with you and that's with respect to	6	briefly ask you how does Hydro measure its
7	the wind project in Ramea.	7	service reliability to Newfoundland Power?
8	A. Yes.	8	A. There are two factors. Basically it's the
9	Q. And I think you mentioned that this is not	9	SAIDI and SAIFI on the bulk electrical system.
10	before the Board and that is in the context	10	In other words looking at the delivery points
11	that it is not a projectthat a displacing	11	where we provide power and energy to
12	fuel cost with no specific capital dollars for	12	Newfoundland Power and the second factor is
13	Hydro, other than I believe there's some	13	the number of under frequency load shedding
14	capital dollars associated with	14	operations that we have at any given point.
15	interconnection, is that correct?	15	Q. With respect to how we measure performance
16	A. That's correct.	16	directly to our customers, our own rural
17	Q. And the amount of the interconnection cost is	17	customers, how do we measure that?
18	approximately 98, 100 thousand dollars, in	18	A. We look at the customer basis. In other
19	that vicinity?	19	words, the total number of hours that an
20	A. That's correct.	20	individual customer or customer group on a
21	Q. And Hydro has applied to the Board for	20	specific feeder are without power. We go
22	approval of those capital dollars for the	22	right down to, to use Mr. Haynes' expression,
23	interconnection, is that correct?	22	the meter socket.
140			
	A I hat's correct and it's tillly recoverable from	124	() And is this similar to how Newtoundland Power
24 25	A. That's correct and it's fully recoverable from the Proponent.	24 25	Q. And is this similar to how Newfoundland Power keeps delivery point performance to its

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	Page 117		Page 118
	C C	1	C C
	REENE, Q.C.:	1	opposed to purchase. Have you had the
2	customers?	2	opportunity to review that, Mr. Martin?
3	A. Yes. As I understand it, Newfoundland Power	3	A. Yes. Our engineering staff has talked with
4	does not keep statistics on a delivery point	4	our prime supplier of diesel engines and
5	basis but they do exactly the same as what we	5	although it's not typical for a utility in a
6	do on a customer service basis, looking at the	6	prime power application to lease engines, for
7	customer, their own customers themselves.	7	that application, they can certainly be
8	Q. And our last group of customers, the	8	prepared to do so; however, they feel in the
9	Industrial Customers, how does Hydro measure	9	long run that cost would be more prohibitive
10	its reliability performance to its customers?	10	than what we're doing now; i.e., the purchase
11	A. With regards to Industrial Customers, the same	11	of our diesel gen. sets.
12	as we do Newfoundland Power at the delivery	12	Q. Has Hydro ever leased a diesel unit?
13	point performance.	13	A. Yes, we've leased diesel units many times.
14	Q. That concludes the re-direct and now I was	14	Q. And would it have been for prime power supply
15	going to move to the undertakings that were	15	on a long-term basis?
16	provided on Friday through Mr. Martin. And	16	A. No, it would not.
17	the first one arises at page 149 of the	17	Q. So it would only have been for short-term
18	transcript and beginning on line 15, this is	18	purposes?
19	really two undertakings are set out there in	19	A. It would have been for short-term purposes,
20	the question from Mr. Browne to Mr. Martin.	20	for example, the MacCallum upgrade we leased a
	And the first one is found at lines 11 to 19		
21		21	couple of units down there until we got the
22	where Mr. Browne asked you to determine	22	new plant built and re-engined.
23	whether Hydro has undertaken an analysis prior	23	Q. The next undertaking begins on lines 20 again
24	to the purchase of a diesel generator as to	24	on page 149 and it was to provide information
25	whether its more economical to lease as	25	with respect to the new unit at Black Tickle
	Page 119		Page 120
1	and its fuel efficiency in comparison to the	1	replacement of engines for fuel efficiency
1 2	C C	1 2	replacement of engines for fuel efficiency only?
	and its fuel efficiency in comparison to the		replacement of engines for fuel efficiency
2	and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior	2	replacement of engines for fuel efficiency only?
2 3	and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you	2 3	replacement of engines for fuel efficiency only? A. That's correct.
2 3 4	and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?	2 3 4	<ul><li>replacement of engines for fuel efficiency only?</li><li>A. That's correct.</li><li>Q. The next undertaking is found on page 151 at</li></ul>
2 3 4 5	<ul><li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li><li>A. Yes, we have. The fuel efficiency of the new</li></ul>	2 3 4 5	<ul><li>replacement of engines for fuel efficiency only?</li><li>A. That's correct.</li><li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to</li></ul>
2 3 4 5 6	<ul><li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li><li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was</li></ul>	2 3 4 5 6	<ul><li>replacement of engines for fuel efficiency only?</li><li>A. That's correct.</li><li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to</li></ul>
2 3 4 5 6 7 8	<ul><li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li><li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate</li></ul>	2 3 4 5 6 7	<ul><li>replacement of engines for fuel efficiency only?</li><li>A. That's correct.</li><li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle</li></ul>
2 3 4 5 6 7 8 9	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300</li> </ul>	2 3 4 5 6 7 8	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the</li> </ul>
2 3 4 5 6 7 8 9 10	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of</li> </ul>	2 3 4 5 6 7 8 9 10	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre.</li> </ul>	2 3 4 5 6 7 8 9 10 11	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had</li> </ul>	2 3 4 5 6 7 8 9 10 11 12	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes,</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at around 3.5 kilowatt hours per litre or a 16</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure specifically each engine's consumption.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at around 3.5 kilowatt hours per litre or a 16 percent improvement. In either event, our</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure specifically each engine's consumption.</li> <li>Q. The next undertaking that is referred to in</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at around 3.5 kilowatt hours per litre or a 16 percent improvement. In either event, our system planning people who undertake these</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure specifically each engine's consumption.</li> <li>Q. The next undertaking that is referred to in the transcript is at page 152 and I just</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at around 3.5 kilowatt hours per litre or a 16 percent improvement. In either event, our system planning people who undertake these analyses indicate that on a project like this,</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure specifically each engine's consumption.</li> <li>Q. The next undertaking that is referred to in the transcript is at page 152 and I just wanted to point out that while it is listed as</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at around 3.5 kilowatt hours per litre or a 16 percent improvement. In either event, our system planning people who undertake these analyses indicate that on a project like this, the fuel savings alone required to just</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure specifically each engine's consumption.</li> <li>Q. The next undertaking that is referred to in the transcript is at page 152 and I just wanted to point out that while it is listed as a separate undertaking in the transcript it</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne?</li> <li>A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at around 3.5 kilowatt hours per litre or a 16 percent improvement. In either event, our system planning people who undertake these analyses indicate that on a project like this, the fuel savings alone required to just balance the capital cost investment of a</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure specifically each engine's consumption.</li> <li>Q. The next undertaking that is referred to in the transcript is at page 152 and I just wanted to point out that while it is listed as a separate undertaking in the transcript it actually is a repeat of the ones with respect</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne? A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at around 3.5 kilowatt hours per litre or a 16 percent improvement. In either event, our system planning people who undertake these analyses indicate that on a project like this, the fuel savings alone required to just balance the capital cost investment of a diesel unit would be in the order of 40 to 50	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure specifically each engine's consumption.</li> <li>Q. The next undertaking that is referred to in the transcript is at page 152 and I just wanted to point out that while it is listed as a separate undertaking in the transcript it actually is a repeat of the ones with respect to the amount of fuel burnt in each of the</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne? A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at around 3.5 kilowatt hours per litre or a 16 percent improvement. In either event, our system planning people who undertake these analyses indicate that on a project like this, the fuel savings alone required to just balance the capital cost investment of a diesel unit would be in the order of 40 to 50 percent requirement, just to break even.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure specifically each engine's consumption.</li> <li>Q. The next undertaking that is referred to in the transcript is at page 152 and I just wanted to point out that while it is listed as a separate undertaking in the transcript it actually is a repeat of the ones with respect to the amount of fuel burnt in each of the units at Black Tickle that we have already</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	and its fuel efficiency in comparison to the old unit that had been in Black Tickle prior to the installation of the new unit. Have you now checked that answer for Mr. Browne? A. Yes, we have. The fuel efficiency of the new 455 kilowatt unit that we put in there to replace the old obsolete 300 kilowatt unit was 3.8 kilowatt hours per litre. We estimate that the obsolete unit it replaced, the 300 kilowatt unit had an efficiency of approximately three kilowatt hours, per litre. In other words, a 26 percent improvement. Had we replaced it with another comparable 300 kilowatt unit just for comparative purposes, the fuel efficiency would be estimated at around 3.5 kilowatt hours per litre or a 16 percent improvement. In either event, our system planning people who undertake these analyses indicate that on a project like this, the fuel savings alone required to just balance the capital cost investment of a diesel unit would be in the order of 40 to 50	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>replacement of engines for fuel efficiency only?</li> <li>A. That's correct.</li> <li>Q. The next undertaking is found on page 151 at lines 13 to 17. And, again, this relates to Black Tickle on a question by Mr. Browne as to whether you could provide the amount of fuel for each of the three units at Black Tickle and have you been able to review that over the weekend, Mr. Martin?</li> <li>A. Yes, we have and as I indicated on Friday, we only measure the total fuel coming from the fuel storage facilities to the plant. We do not have individual fuel meters on each individual engine. So we cannot measure specifically each engine's consumption.</li> <li>Q. The next undertaking that is referred to in the transcript is at page 152 and I just wanted to point out that while it is listed as a separate undertaking in the transcript it actually is a repeat of the ones with respect to the amount of fuel burnt in each of the</li> </ul>

## Multi-Page<sup>TM</sup>NL Hydro's 2003 General Rate Application

Page 122 e no questions either, thank you very
e no questions either, thank you very
, Mr. Martin for your testimony.
k you for your mercy, Mr. Chairman.
ı.)
٨:
l, I guess, conclude for the day,
inly and I guess, Ms. Newman, we'll be
rtaking to hear evidence from Ms. Richter
rrow morning at 9?
AN:
that's correct, Chair. We estimate that
nould be finished that tomorrow but -
٨:
y. Sounds good. So we'll adjourn for
and we'll see you at 9:00 tomorrow
ing. Thanks once again.
l till October 28, 2003 at 9:00 a.m.