	Page 1		Page 2
	1 LIST OF UNDERTAKING	1	(10:03 a.m.)
12	2 1. Undertaking Pg. 126	2	CHAIRMAN:
	3 2. Undertaking Pg. 147	3	Q. Good morning. Ladies and gentlemen, this
4	4 3. Undertaking Pg. 148	4	hearing of the Public Utilities Board convened
4	5 4. Undertaking Pg. 150	5	this morning in the matter of an application
6	6 5. Undertaking Pg. 180	6	pursuant to the Public Utilities Act by
1	7 6. Undertaking Pg. 190	7	Newfoundland and Labrador Hydro for an order
		8	approving, (1) its 2005 Capital Budget,
		9	pursuant to Section $41(1)$ of the Act, (2) its
		10	2005 capital purchases and construction
		11	projects in excess of \$50,000 pursuant to
		12	41(3)(a) of the Act, (3) its leases in excess
		13	of \$5000 pursuant to Section 41(3)(b) of the
		14	Act and its estimated contributions in aid of
		15	construction for 2005 pursuant to Section
		16	41(5) of the Act and for an order as well
		17	pursuant to Section 78 of the Act, fixing and
		18	determining its average rate base for 2003.
		19	I'd like to take the opportunity at this
		20	time to welcome the participants and any
		21	registered Intervenors and the parties and
		22	Board staff and any members of the public who
		23	are here to observe what goes on. My name is
		24	William Finn, I'm acting as Chair of the
		25	Panel. And sitting with me on this Panel, to
	Page 3		Page 4
	1 my right, Commissioner Gerard Martin and to my	1	Bay Nickel Company Limited.
	2 left, Commissioner Don Powell. The Board is	2	CHAIRMAN:
1	assisted by Board counsel, Mark Kennedy, the	3	Q. Thank you. Mr. Kennedy, at this time could
4	4 Board secretary, Mrs. Barbara Thistle and	4	you address any preliminary matters that are
4	5 Discoveries Unlimited will be providing	5	appropriate?
1	6 written transcripts on a 24 hour turn around	6	MR. KENNEDY:
1	7 basis. I'd ask if the parties would introduce	7	Q. Yes, Chair, I don't believe there are any
8	8 themselves, beginning the Applicant?	8	preliminary matters.
9	9 GREENE, Q.C.:	9	CHAIRMAN:
10	0 Q. Good morning, Mr. Chair, Commissioners. My	10	Q. Okay. Would you indicate for the record,
1	name is Maureen Greene and I am counsel for	11	please, the notices that have taken place
12	2 Newfoundland and Labrador Hydro, the	12	prior to the Application?
13	3 Applicant.	13	MR. KENNEDY:
14	4 HAYES, Q.C.:	14	Q. Yes, Chair. Thank you. Put the matter
15	5 Q. Good morning, Mr. Chair, Gerard Hayes,	15	before, basically before the Board in the
10	6 appearing Newfoundland Power, and with me, Mr.	16	matter of an application by Newfoundland and
17	7 Peter Alteen.	17	Labrador Hydro for an order approving its 2005
18	8 HUTCHINGS, Q.C.:	18	Capital Budget pursuant to Section 41(1) of
19	9 Q. Good morning, Mr. Chairman, Joseph Hutchings.	19	the Act; its 2005 capital purchases and
20	0 With me, Mr. Paul Coxworthy. We represent the	20	construction projects in excess of \$50, 000
2	1 Industrial Customer Group of Hydro which	21	pursuant to Section $41(3)(a)$ of the Act; its
22	2 consists of Abitibi Consolidated Company of	22	leases in excess of \$5000 pursuant to Section $41(2)(4) = 5(4)$
23	3 Canada in both its Stephenville and Grand	23	41(3)(b) of the Act; and its estimated
24	4 Falls operations, Corner Brook Pulp and Paper	24	contributions in aid of construction for 2005
12	5 Limited, North Atlantic Refining and Voisey's	25	pursuant to Section $41(5)$ of the Act; and for

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1 N	IR. KENNEDY:	1	have been forwarded to all the parties and
2	an order pursuant to Section 78 of the Act	2	they would be subject to the subsequent orders
3	fixing and determining its average rate base	3	of the Board, the rules under which this
4	for 2003. Chair, I can confirm that the	4	hearing will be conducted.
5	matter is properly constituted in compliance	5	Confirm as well the sitting times, Chair,
6	with the Act and that the Board is properly	6	that for today's session the sitting times are
7	seized of the matter.	7	from 10 a.m. to 12:30 and then from 2 p.m.
8	Notice of the application and public	8	until 4:30 p.m. with two 15 minute breaks at
9	hearing were issued by the Board providing	9	the discretion of the Panel, both during the
10	notice to the public concerning the conduct of	10	morning session and during the afternoon
11	the hearing. That notice is properly filed as	11	session. And I confirm as well it's the
12	part of the record of the Board was inserted	12	intention to move to a schedule of commencing
13	into the Telegram, the Western Star, the Grand	13	at 9:30 in the morning and proceeding until
14	Falls Advertiser, the Aurora, the Labradorian,	14	1:30 in the afternoon with two 15 minute
15	and the Northern Pen.	15	breaks at the discretion of the Board for both
16	I can confirm, Chair, that we received	16	Thursday and if necessary, Friday's sitting.
17	notices, written notices of intervention by	17	Lastly, Chair, I confirm that there is a
18	Newfoundland Power Inc. and written notices of	18	mediation report, settlement report that's
19	intervention by collectively the Industrial	19	being forwarded among the parties concerning
20	Customers, Abitibi in Stephenville and Grand	20	some of the projects contained in Hydro's
21	Falls, Corner Brook Pulp and Paper, North	21	Capital Budget application. This is the same
22	Atlantic Refining Limited and Voisey's Bay	22	procedures that were used as part of Hydro's
23	Nickel Company Limited. Confirm as well,	23	2004 Capital Budget application. And I would
24	Chair, that rules of procedure for the conduct	24	hope to have a final position from the parties
25	of Hydro's 2005 Capital Budget application	25	on their review of that document in time to be
	Page 7		Page 8
1	able to submit that settlement report, if	1	if necessary to try and conclude this
2	possible, today. Thank you, Chair.	2	particular hearing by the scheduled time on
3 C	CHAIRMAN:	3	Friday, if at all possible. With that, then,
4	Q. Thank you. Do either of the parties have any	4	turn the matter over to Newfoundland Hydro to
5	preliminary matter they wish to raise?	5	begin its presentation.
6 G	JREENE, Q.C.:	6	GREENE, Q.C.:
7	Q. Mr. Chair, not a preliminary matter, but just	7	Q. Thank you, Mr. Chair. In the past I guess the
8	for the record to indicate that Voisey's Bay	8	practice has been to have opening comments. I
9	Nickel is not a customer of Newfoundland and	9	didn't know if that was wish of the Panel this
10	Labrador Hydro at this time. I assume, as in	10	morning?
11	the GRA that they are intervening as a	11	CHAIRMAN:
12	potential customer. We obviously do not	12	Q. Certainly.
13	object to their intervention, but I thought	13	GREENE, Q.C.:
14	the record should reflect the factual	14	Q. Okay. My comments are only very brief with
15	situation.	15	respect to the opening statement. As has been
16 C	CHAIRMAN:	16	mentioned already this is an application under
17	Q. Okay. Thank you.	17	Section 41 of the Public Utilities Act for two
18 H	IUTCHINGS, Q.C.:	18	purposes. One is to approve the 2005 Capital
19	Q. 1 nat 18, in fact, the case, Mr. Chair.	19	Budget and that is under Section 41 of the Act
20 C	HAIRMAN:	20	and the other purpose is under Section 78 of
21	Q. Thank you, Wr. Hutchings. The sitting times	$\begin{bmatrix} 21\\ 22 \end{bmatrix}$	the Act to fix and determine the average rate
22	that were referred to, particularly for days	22	Uase 107 2005.
25 24	fort. I think we'll have to judge how the	23	Conital Rudget I would noint out that under
24 25	schedule is going and we may adjust the matter	24	Capital Budget, I would point out that under Section 37 of the Act, which when Mr. Hydro
23 	seneulle is going and we may adjust the matter	123	Section 57 of the Act, which when MIHydro

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	Page 9		Page 10
1 GRI	EENE, Q.C.:	1	P.U. 7, which was dated in June, 2002, gave
2	as a utility has an obligation to provide	2	direction to Hydro as to the type of
3	service and facilities which are reasonably	3	documentation that had to be filed to support
4	safe and adequate and just and reasonable. In	4	a capital budget. This is our third budget
5	order to fulfil that obligation and in order	5	submitted in compliance with the directions of
6	to provide our customers with least cost	6	the Board in P.U. 7. We believe, of course,
7	reliable power capital expenditures are	7	that we have complied with all of the
8	required each and every year by a utility.	8	requirements the Board asked us to do with
9	That is the nature of the business we are in.	9	respect to Capital Budget justifications.
10	I'd like now to go to Section 41 of the	10	I'd like now to just briefly talk about
11	Act, because that is the section of the Act	11	the proposed 2005 Capital Budget. The
12	under which the application is brought. Under	12	proposed budget is \$42.4 million. I think
13	Section 41(1), Hydro is required to file no	13	that it can be broken down into four
14	late than December 15th its Capital Budget for	14	categories which I'd like to outline now
15	the next year for approval. I will point out	15	because I believe it would be helpful to focus
16	that Hydro filed this application on August	16	the discussion at the hearing.
17	the 10th. Under subsection 3 of the Act we	17	The first category is the continuation of
18	are not allowed to proceed with projects over	18	ongoing programs. Each year is discrete, but
19	\$50,000 or leases over 5000 without the prior	19	it is part of a comprehensive program the
20	approval of the Board. So that is the section	20	Board has reviewed before. For example, we
21	of the Act under which this application is	21	have a project the upgrade of spherical valves
22	brought.	22	at Bay d' Espoir. We have six units at Bay
23	With respect to the justification for	23	d'Espoir, we have already done four units,
24	projects, I would point out that the Board in	24	replacing the value which the Board have
		25	approved. We are proposing to do the fifth
	Dogo 11		Page 12
1	unit in 2005 which is project B 11 which will	1	We have \$1 million left for the project for
1 2	leave us with one unit which we have in our		this year and we are literally halfway more
2	five year plan to do next year. Another		then helfway, through this program, which is
3	avample would be the motor drive disconnect		one project. Not like the previous category
4	motor drive mechanism on the disconnect	5	where each year is discrete. Another example
5	switches which is project B 38 and this will	5	of that is replacement of the energy
0	be the third and final year to do that for all		management system B 114 at a total cost of
0	of the 230kV system. We have already done two	0	12.3 million. The Board has already approved
0	vars and this would complete that program	0	2.1 million some in 2002 and some in 2004
9	So that's one estagery And we have a number	9	This is a multi year project which will not be
10	of projects in that category which are a	10	finished until 2006, so we need funds in this
11	continuation of ongoing programs. Each year	12	vear as well as next year to carry on and
12	is discrete so one year, could be disallowed	12	somplete the project. So that's the second
15	but it is part of an ongoing program	15	type of project that we have which I call the
14	The third or the second rether	14	multi year project
15	catagory are a continuation of multi year	13	15 a m
10	projects. These are really the examples of	10 (10.	The third type of project are those that
1/	where we have one project and we are partner	1/	von will see each and every year as L call
18	through a project which the Board has already	18	them the enquel requirements that Hydro has
19	approved the each flow for prior years. And	19	aimilar to what Newfoundland Dower has Every
20 21	approved the cash now for prior years. And	20	similar to what new journal and Power has. Every
∠1 22	we have quite a number of mose in this years	$ ^{21}$	year we must do service extensions, which is
22	ungrade of the control system at Holyrood	22	distribution line upgrades, which is P 50
23 24	which is project R 16 a \$2.6 million project	23	And they are the projects, are based on our
24 25	The Roard has already approved 1.6 million	24	historical experience for those types of
<i>43</i>	The board has aneady approved 1.0 mmon.	23	matorical experience for those types of

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	Page 13		Page 14
1 GRI	EENE, Q.C.:	1	with half being filed by September 24th and
2	projects. Another is corporate applications.	2	the balance by the 28th of September.
3	In the world in which we live today, which is	3	The second part of the application
4	IT, each and every year there will have to be	4	concerns our request to fix and determine the
5	a number of corporate applications for any	5	average rate base for 2003. This is under
6	organization the size of Newfoundland Hydro.	6	Section 78 of the Act where the Board can fix
7	So that's the third type of project where	7	and determine the rate base for the utility.
8	there are annual allotments or requirements	8	The Board has regularly done this for
9	each year.	9	Newfoundland Power for the last number of
10	The fourth type of project are the truly	10	years and Hydro is requesting that the 2003
11	new projects for 2005 and there are a few of	11	rate base be dealt with and fixed at this
12	those, of course, as well. A good example	12	hearing.
13	would be the anti-fouling system for Holyrood	13	I'd like now to turn to the witnesses we
14	which is a one year project, B-19, which will	14	will be calling, and I've already advised
15	be completed in the year and which is required	15	other counsel of our plans with respect to
16	for the operational requirements at the	16	this.
17	Holyrood plant. And as we go through the	17	The first area we will present is the
18	evidence, you will see the various types of	18	transmission and rural operations area. This
19	projects that we are presenting for approval	19	will be done through a panel of witnesses, Mr.
20	and the justification for them.	20	Fred Martin, who is the vice-president of that
21	I would like to point out that we	21	division and Gordon Holden, who is the
22	received 109 Requests for Information by	22	director of engineering. So together the two
23	September 20th, and all were replied to with	23	gentlemen will appear as a panel to speak to
24	the exception of one, which was withdrawn by	24	all projects on the transmission and rural
25	Board counsel, P.U. 13, by September 28th,	25	operations which is found on page A-1 of the
	Page 15		Page 16
1	application and as well the vehicle portion of	1	on the mobile radio project we will then have
2	the general properties section of the budget.	2	a panel composed of Mr. Haynes and Mr. Downton
3	That panel will have a short presentation	3	who will remain. Mr. Dunphy will be allowed
4	which I've distributed as well this morning	4	to leave the panel and Mr. Nichol will join
5	with respect to one particular project, the	5	the panel to speak to the remaining IS and T
6	wood management project, wood management pole	6	projects.
7	project, as well as some other information	7	The final witness will be John Roberts,
8	with respect to a couple of other projects.	8	who is the vice-president of finance and chief
9	After the transmission and rural	9	financial officer, who will speak to a very
10	operations panel Mr. Jim Haynes will be the	10	limited number of 2005 capital projects in the
11	next witness. Mr. Haynes is the vice-	11	administrative area and he will also give
12	president of production for Hydro. He will	12	evidence with respect to the financing of the
13	first speak to all of the Hydro plant projects	13	budgetthe 2005 capital program as well as
14	and the thermal plant projects which are on	14	the issues of the 2003 rate base.
15	pages A-4 and A-5 of the Capital Budget.	15	I'd like to come back to one project,
16	Following that Mr. Haynes will be joined	16	which is the radio. Because in discussions
17	by Mr. Eric Dunphy (sic.) who is the director	17	with counsel it appears, and based on the
18	of information systems and telecommunications	18	previous experience of Hydro before the Board
19	and Mr. Gerard Dunphy who is the manager of	19	that this undoubtedly will be one of the
20	infrastructure and software support, and those	20	significant issues for the hearing. So I
21	three gentlemen, Mr. Haynes, Mr. Downton and	21	thought it would be helpful if in opening
22	Mr. Dunphy as a panel will address the mobile	22	comments I advised of Hydro's position with
23	radio project. And I will come back to that	23	respect to this project. From Hydro's
24	particular project in a moment.	24	perspective, which is both management and its
25	Following the conclusion of the evidence	25	Board of Directors, this project is a critical

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1	GREENE, Q.C.:	1	to system failure, are you referring to the
2	project. I think it has been determined now	2	radio system?
3	in the previous two hearings that Hydro as the	3	GREENE, Q.C.:
4	major generator and transmitter in the	4	Q. The radio, yes, yes, Mr. Chair. Last year the
5	province cannot operate its system without a	5	Board deferred the approval of the radio
6	mobile radio system. I think that has now	6	project and directed that a consultative
7	been accepted by the parties. That's the	7	process be undertaken with Newfoundland Power
8	first point. We need a radio to run the	8	to ensure that various issues raised by the
9	system, a mobile radio. The second point is	9	Board were addressed. And through our
10	that the current system is obsolete. We have	10	evidence we will provide information to the
11	no vendor support, we have no spares. We have	11	Board how both utilities did providedid
12	been fortunate that the system hasn't failed.	12	respond to that direction and did the analysis
13	In Hydro's and that of its management and	13	as required. Hydro has filed a report
14	Board of Directors, we cannot allow the system	14	outlining its participation in that process
15	to run to failure. It is critical to operate	15	and Newfoundland Power has filed a report
16	the system, number one, and number two, it	16	which we will review with you during the
17	takes 18 to 24 months to replace it. We can't	17	hearing. The conclusions from that analysis
18	operate effectively for that period of time if	18	in very high level summary is that
19	the system is to fail. We will be placing our	19	Newfoundland Power does not need to replace
20	customers in the position of longer outages	20	its mobile radio system until at least 2011.
21	and we will be imposing additional constraints	21	It therefore is not cost effective for
22	we would have meet with respect to how our	22	Newfoundland Power to join Newfoundland
23	employees could operate safely.	23	Hydro's radio system at this time. It is also
24	CHAIRMAN:	24	clear from the analysis that Hydro's
25	Q. When you'reexcuse me. When you're referring	25	functional specifications will be able to
	Page 19		Page 20
1	accommodate Newfoundland Power at a time in	1	will be satisfied and any additional questions
2	the future when it does need to replace its	2	you may have will be answered during the
3	radio, if it is the least cost option for	3	course of that proceeding.
4	Newfoundland Power at that time. The third	4	So in conclusion, for all of the 2005
5	conclusion from the analysis is is that	5	Capital Budget Hydro believes that the
6	Hydro's proposal, which we have before the	6	projects that we have submitted are the
7	Board today, to proceed to replace the mobile	7	essential ones that are required to provide
8	radio with participation from the Department	8	reliable lowest cost power to our customers
9	of Work Services and Transportation with the	9	and that they therefore should be approved.
10	ability for Newfoundland Power to join later	10	We believe we have provided sufficient
11	is the lowest cost option for this system for	11	documentation justifying the need for the
12	all rate payers.	12	projects, and secondly, we believe it is
13	So having done the analysis as required	13	appropriate in this hearing to fix and
14	and having reviewed the issue again, I thought	14	determine the 2003 average rate base. Thank
15	it would be helpful if we advised the Board	15	you, Chair, Commissioners, that concludes our
16	again of Hydro's position on this and for the	16	opening comments.
17	reasons we've stated we believe that the radio	17	CHAIRMAN:
18	is critical to be approved at this time and we	18	Q. Thank you, Ms. Green. Mr. Hayes.
19	will be leading significant evidence with	19	HAYES, Q.C.:
20	respect to that. Because we understand the	20	Q. Yes, Mr. Chair, thank you, very much. As
21	fact that we've been here twice before for the	21	noted in our Intervenor submission,
22	radio, it's of concern to the Panel and to the	22	Newfoundland Power is the principal purchaser
23	other Intervenors and hopefully through all of	23	of Hydro's production on the Island
24	the evidence you will hear over the course of	24	Interconnected System. As such, we obviously
25	what I hope is only the next three days, you	25	have a significant interest in Hydro's Capital

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1	HAYES, Q.C.:	1	of electric power in the province. Their
2	Budget. We do not intend to call evidence at	2	operations are the backbone of the island
3	this proceeding. However, we have identified	3	economy outside of the area of St. John's, and
4	several projects upon which we may ask	4	the price that they pay for electricity is a
5	questions. Most noteworthy among those	5	serious consideration for each of them, given
6	projects, obviously, is the VHF radio project.	6	the significant proportion of their own
7	And as Ms. Greene has pointed out,	7	operating costs that are related to electric
8	Newfoundland Power had cooperated with Hydro	8	power. And we all know enough about pulp and
9	in a consultative process during the past	9	paper operations and oil refineries to know
10	year, guided by the Board's comments in order	10	that power, electric power is a very
11	P.U. 29 (2003). The outcome of that process	11	significant input into these operations.
12	is before the Board today. And Newfoundland	12	These customers obviously live in a different
13	Power will have some questions to address to	13	world than the utilities in the sense that
14	the panel that's dealing with that issue.	14	they are price takers in their own markets,
15	There are also several other questions with	15	and it is therefore vital to them to ensure
16	respect to other projects that we may find	16	that their input costs are kept to the lowest
17	necessary to ask during the course of the	17	possible level. Their interest in electricity
18	proceeding. We expect, Mr. Chair, that our	18	is as a commodity and they purchase it, they
19	questioning will be relatively brief. Thank	19	want to purchase it at the lowest possible
20	you. Those are our opening submissions.	20	price and the legislation that governs public
21	CHAIRMAN:	21	utilities in this province says that
22	Q. Thank you, Mr. Hayes. Mr. Hutchings?	22	electricity should be made available to users
23	HUTCHINGS, Q.C.:	23	at the lowest possible cost, and that's why
24	Q. Thank you, Mr. Chair. The Industrial Customer	24	the Industrial Customer Group has involved
25	Group of Hydro obviously are significant users	25	itself in public utilities regulation in this
25		1	
25	Page 23		Page 24
1	Page 23 province.	1	Page 24 this year or there is a very limited amount of
1 25	Page 23 province. Specifically with respect to capital	1 2	Page 24 this year or there is a very limited amount of capital money available this year, and hence,
1 2 3	Page 23 province. Specifically with respect to capital items, obliviously, this budget itself will	1 2 3	Page 24 this year or there is a very limited amount of capital money available this year, and hence, you must make do with what is available.
1 2 3 4	Page 23 province. Specifically with respect to capital items, obliviously, this budget itself will not change today or at the end of this hearing	1 2 3 4	Page 24 this year or there is a very limited amount of capital money available this year, and hence, you must make do with what is available. There's no such market limit on Hydro in this
1 2 3 4 5	Page 23 province. Specifically with respect to capital items, obliviously, this budget itself will not change today or at the end of this hearing the rates that our clients are paying for	1 2 3 4 5	Page 24 this year or there is a very limited amount of capital money available this year, and hence, you must make do with what is available. There's no such market limit on Hydro in this sense, and it is for that reason that this
1 2 3 4 5 6	Page 23 province. Specifically with respect to capital items, obliviously, this budget itself will not change today or at the end of this hearing the rates that our clients are paying for their electricity. However, if a capital	1 2 3 4 5 6	Page 24 this year or there is a very limited amount of capital money available this year, and hence, you must make do with what is available. There's no such market limit on Hydro in this sense, and it is for that reason that this sort of control exists from the Board so that
1 2 3 4 5 6 7	Page 23 province. Specifically with respect to capital items, obliviously, this budget itself will not change today or at the end of this hearing the rates that our clients are paying for their electricity. However, if a capital project is approved and if it is subsequently	1 2 3 4 5 6 7	Page 24 this year or there is a very limited amount of capital money available this year, and hence, you must make do with what is available. There's no such market limit on Hydro in this sense, and it is for that reason that this sort of control exists from the Board so that there is a proxy, if you will, for the notion
1 2 3 4 5 6 7 8	Page 23 province. Specifically with respect to capital items, obliviously, this budget itself will not change today or at the end of this hearing the rates that our clients are paying for their electricity. However, if a capital project is approved and if it is subsequently added to the rate base, that does increase the	1 2 3 4 5 6 7 8	Page 24 this year or there is a very limited amount of capital money available this year, and hence, you must make do with what is available. There's no such market limit on Hydro in this sense, and it is for that reason that this sort of control exists from the Board so that there is a proxy, if you will, for the notion of the market limit that exists in respect of
1 2 3 4 5 6 7 8 9	Page 23 province. Specifically with respect to capital items, obliviously, this budget itself will not change today or at the end of this hearing the rates that our clients are paying for their electricity. However, if a capital project is approved and if it is subsequently added to the rate base, that does increase the return to which Newfoundland and Labrador	1 2 3 4 5 6 7 8 9	Page 24 this year or there is a very limited amount of capital money available this year, and hence, you must make do with what is available. There's no such market limit on Hydro in this sense, and it is for that reason that this sort of control exists from the Board so that there is a proxy, if you will, for the notion of the market limit that exists in respect of private enterprises. This Board must try to
1 2 3 4 5 6 7 8 9 10	Page 23 province. Specifically with respect to capital items, obliviously, this budget itself will not change today or at the end of this hearing the rates that our clients are paying for their electricity. However, if a capital project is approved and if it is subsequently added to the rate base, that does increase the return to which Newfoundland and Labrador Hydro is entitled, it does increase the	1 2 3 4 5 6 7 8 9 10	Page 24 this year or there is a very limited amount of capital money available this year, and hence, you must make do with what is available. There's no such market limit on Hydro in this sense, and it is for that reason that this sort of control exists from the Board so that there is a proxy, if you will, for the notion of the market limit that exists in respect of private enterprises. This Board must try to keep the level of capital spending of
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Multi-Page [™]L Hydro's 2005 Capital Budget Application

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1 HUT	CHINGS, Q.C.:	1	extent that some of the projects that we may
2	when necessity demands that it be made. That	2	see here should properly be regarded as
3	is one theme.	3	operating expenses, that the Board should
4	The other issue here, another issue is	4	enforce that in order that there is not an
5	the notion that Hydro, by reason of its method	5	opportunity to Hydro to spend additional money
6	of regulation, is fixed in what it can recover	6	that should have been properly assigned to
7	for operating expenses. Its rates have been	7	operating when in fact there is not a proper
8	fixed by this Board by order and that allows	8	capital expenditure associated with it.
9	for a certain level of operating expenses to	9	(10:30 a.m.)
10	be recovered by Newfoundland and Labrador	10	So this hearing is intended to deal with
11	Hydro. And until such time as there's another	11	capital expenses only and this Board can
12	general rate hearing, its ability to recover	12	authorize Hydro to spend capital money in this
13	additional operating expenses is severely	13	hearing.
14	limited, in fact, doesn't exist.	14	This Board should not be authorizing
15	The concern that that gives rise to with	15	Hydro to spend additional money on operating
16	respect to these proceedings is that if Hydro	16	expenses in this hearing. If that's an issue,
17	casts as a capital expenditure something that	17	then that has to be dealt with in a general
18	really should be characterized as an operating	18	rate hearing. So, from the point of view of
19	expense, then this will ultimately allow Hydro	19	the Industrial Customers, we need to ensure
20	to increase its own net income to the extent	20	that there is control.
21	that it is intended to recover its operating	21	This budget is quite clearly higher than
22	expense from existing rates, its net income	22	the typical capital budget that Hydro has
23	will fall out of the result of its operations	23	experienced, and that is a matter of concern.
24	when properly assigned operating expenses are	24	Where the budget is higher than normal, there
25	assigned to the operating account. To the	25	should be extra vigilance to ensure that every
	Page 27		Page 28
1	project that needs to bethat's being	1	Consumer Advocate or someone here to speak to
2	proposed needs to be done this year and cannot	2	those projects, Newfoundland Power may speak
3	be deferred to another year. And that	3	to some of them, Board counsel may speak to
4	scrutiny needs to be applied to this budget.	4	some of them, but that is a bit of a gap. As
5	In the course of the hearing as has been	5	I say, it doesn't affect our clients and
6	the case in the past, Mr. Coxworthy and I have	6	hence, we do not generally speak to those
7	divided the various projects between us such	7	projects, although we may find some things in
8	that each of us will, in accordance with the	8	those projects that enlighten us as to how
9	rules, be participating in the cross-	9	Hydro approaches things, and sometimes we have
10	examination of each of the panels or each of	10	difficulty with that.
11	the witnesses who appear, but one of us will	11	That being said, we must acknowledge that
12	begin and finish the examination that we need	12	since we became more actively involved in
13	to do and then the other will start and	13	these capital budget matters, since about the
14	complete the examination in total. We do not	14	year 2001, the level of explanation and
15	intend in this hearing to be calling evidence,	15	justification that is included in Hydro's
16	but we will be obviously cross-examining in	16	materials has, in our view, improved very
17	respect of a good number of projects.	17	considerably and there is a great deal more
18	Just for clarity, and this will become	18	material and better justification in the
19	clear when the settlement agreement is filed,	19	explanations generally now than there was some
20	the expenses or the projects here that are	20	years ago. That doesn't mean that we still
21	related solely to the Hydro Rural System don't	21	don't have some issues in that regard, and we
22			
	affect the rates of the Industrial Customers	22	will speak to those as they go along.
23	affect the rates of the Industrial Customers and therefore generally speaking we take no	22 23	will speak to those as they go along. The second issue in the hearing is the
23 24	affect the rates of the Industrial Customers and therefore generally speaking we take no position with respect to those. It is perhaps	22 23 24	will speak to those as they go along. The second issue in the hearing is the issue of the approval of the rate base. And

	Page 29		Page 30
1	HUTCHINGS, Q.C.:	1	not it is appropriate to join the approval of
2	well. The affect of the approval of the rate	2	rate base with the annual Capital Budget
3	base for 2003 is to allow an increase in that	3	application is an issue that should be dealt
4	rate base. And given the nature of public	4	with in that process and not changed now
5	utilities, the increasethe rate base almost	5	precipitously in this fashion when the
6	inevitably is increasing as opposed to	6	implication is that there may be additional
7	decreasing year over year. What that does, of	7	costs imposed on the system as a result,
8	course, is to allow additional dollar recovery	8	additional costs that people like our clients
9	by Hydro in respect of its income to the	9	will have to pay. We acknowledge that this
10	extent that it is allowed a larger rate base.	10	has been the practice in respect of
11	The dollar value of its return on rate base	11	Newfoundland Light, Newfoundland Power. That
12	increases and whatever mechanism the Board may	12	means that one of two utilities here has
13	put in place with respect to limiting the	13	followed that practice. I think it is
14	income or excess earnings of Hydro will be	14	appropriate for the Board to consider whether
15	affected such that Hydro will be able to	15	or not that is the appropriate practice, and I
16	retain a greater proportion of any excess	16	think the appropriate forum to do that is the
17	earnings to the extent that a larger rate base	17	ongoing Capital Budget review process which is
18	is approved. This is a complete departure for	18	under way at the present time. So we will be
19	Newfoundland and Labrador Hydro. It has never	19	making final submissions on that in due
20	before undertaken to request an approval of	20	course.
21	rate base outside a general rate hearing. We	21	Those are most of my remarks. I would
22	feel it is singularly inappropriate to do it	22	ask if Ms. Greene could clarify for us in
23	at this time. As the Board is fully aware,	23	respect of the witnesses who will be speaking
24	there is a Capital Budget review process under	24	to projects. There are four projects which
25	way and we feel strongly that thatwhether or	25	I'm assuming will be spoken to by the IS and T
	Dago 21		Dage 22
1	rage 51		
1	$\mathbf{T}_{\mathbf{T}}$	1	tiving and determining of the rate base 1'm
2	Panel and those are B-139, 141, 143 and 144.	1	fixing and determining of the rate base, I'm
2	But I don't think they were specifically	1 2 2	fixing and determining of the rate base, I'm assuming that this issue will be addressed in final argument. It has been in our
2 3	But I don't think they were specifically identified as associated with one of the	1 2 3	fixing and determining of the rate base, I'm assuming that this issue will be addressed in final argument. It has been in our application since it was filed on August 10th
2 3 4 5	But I don't think they were specifically identified as associated with one of the panels. That's the -	1 2 3 4 5	fixing and determining of the rate base, I'm assuming that this issue will be addressed in final argument. It has been in our application since it was filed on August 10th. I'm not sure if Mr. Hutchings has not taken a
2 3 4 5	But I don't think they were specifically identified as associated with one of the panels. That's the - GREENE, Q.C.:	1 2 3 4 5	fixing and determining of the rate base, I'm assuming that this issue will be addressed in final argument. It has been in our application since it was filed on August 10th. I'm not sure ifMr. Hutchings has not taken a motion to have, this part of the application
2 3 4 5 6 7	But I don't think they were specifically identified as associated with one of the panels. That's the - GREENE, Q.C.: Q. That is correct, Mr. Chair, those projects will be speken to by the 15 and T panel	1 2 3 4 5 6 7	fixing and determining of the rate base, I'm assuming that this issue will be addressed in final argument. It has been in our application since it was filed on August 10th. I'm not sure ifMr. Hutchings has not taken a motion to have this part of the application deformed atoptare so Lem assuming at this
2 3 4 5 6 7	 panel and those are B-139, 141, 143 and 144. But I don't think they were specifically identified as associated with one of the panels. That's the - GREENE, Q.C.: Q. That is correct, Mr. Chair, those projects will be spoken to by the IS and T panel composed of Mr. Havnes, Mr. Downton, and Mr. 	1 2 3 4 5 6 7 0	fixing and determining of the rate base, I'm assuming that this issue will be addressed in final argument. It has been in our application since it was filed on August 10th. I'm not sure ifMr. Hutchings has not taken a motion to have this part of the application deferred, etcetera, so I am assuming at this point that we will proceed through the hearing
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	Page 33		Page 34
1	GREENE, Q.C.:	1	A. Yes. I'm vice-president of transmission and
2	Q. Yes, thank you. Thank you, Mr. Chair. Our	2	rural operations. My division has overall
3	first area to be covered is transmission and	3	responsibility for the design, construction
4	rural operations. And as I indicated, we have	4	and ongoing operation and maintenance of
5	two people who will appear as part of the	5	Hydro's high voltage transmission network, its
6	panel, Mr. Fred Martin and Mr. Gord Holden. I	6	high voltage terminal stations, its
7	wonder if they could come up, please?	7	distribution systems, three gas turbines and
8	MR. FRED MARTIN (SWORN)	8	27 diesel plants on the Island Interconnected,
9	MR. GORDON HOLDEN (SWORN)	9	Labrador Interconnected and the Isolated Rural
10	CHAIRMAN:	10	Systems. I also have corporate wide
11	Q. Individually state your names for the record.	11	responsibility for environmental services,
12	MR. MARTIN:	12	transportation, drafting, revenue metering and
13	A. My name is Fred Martin.	13	properties.
14	MR. HOLDEN:	14	Q. Mr. Holden, could you advise the Panel what
15	A. My name is Gordon Holden.	15	your position is at Hydro and the
16	GREENE, Q.C.:	16	responsibilities of that position?
17	Q. And, Mr. Chair, Commissioners, during the	17	MR. HOLDEN:
18	course of the direct evidence there will be	18	A. Yes. I am the director of engineering in the
19	some slides presented through the monitors and	19	transmission and rural operations division.
20	copies of that presentation and those slides	20	And as director of that department I'm
21	have been distributed. Good morning. Mr.	21	responsible for all engineering services to
22	Martin, could you please advise the Panel what	22	the operations and I also have responsibility
23	your current position is with Hydro and what	23	for drafting and metering services for the
24	are the responsibilities of that position?	24	whole corporation.
25	MR. MARTIN:	25	GREENE, Q.C.:
	Page 35		Page 36
1	Page 35 O. Mr. Martin, how long have, you been in your	1	Page 36
1	Page 35 Q. Mr. Martin, how long have you been in your current position?	1	Page 36 MR. HOLDEN: A L've been with Hydro for 23 years L've been
1 2 3	Page 35 Q. Mr. Martin, how long have you been in your current position?	1 2 3	Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I
1 2 3 4	Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. L've been in my current position since August	1 2 3 4	Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as
1 2 3 4 5	Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. I've been in my current position since August 1st 2003	1 2 3 4 5	Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as electrical design engineer in the engineering
1 2 3 4 5	Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. I've been in my current position since August 1st, 2003. Q. And how long have you been with Hydro and what	1 2 3 4 5 6	Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as electrical design engineer in the engineering and construction division, and was promoted to
1 2 3 4 5 6 7	Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. I've been in my current position since August 1st, 2003. Q. And how long have you been with Hydro and what type of positions have you held in your career	1 2 3 4 5 6 7	Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as electrical design engineer in the engineering and construction division, and was promoted to supervising electrical engineer in 1998 and
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. I've been in my current position since August 1st, 2003. Q. And how long have you been with Hydro and what type of positions have you held in your career at Hydro? MR. MARTIN: A. I've been with Hydro for approximately 30 years. Prior to my current position, I was Director of Engineering in TRO division from 1995 to 2003. Before that, I held the position of manager of telecontrol, from 1998I'm sorry, from 1988 to 1995. I have held other positions within Hydro prior to that, such as senior protection and control engineering, both the engineering and construction division and the operations 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as electrical design engineer in the engineering and construction division, and was promoted to supervising electrical engineer in 1998, and appointed to the Director of Engineering in August of 2003. Q. Mr. Martin, have you appeared before the Public Utilities before? MR. MARTIN: A. Yes, I have. Q. In Capital hearings as well as in the recent General Rate Application? Is that correct? MR. MARTIN: A. That is correct. Q. Mr. Holden, have you appeared before the Board before as well?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. I've been in my current position since August 1st, 2003. Q. And how long have you been with Hydro and what type of positions have you held in your career at Hydro? MR. MARTIN: A. I've been with Hydro for approximately 30 years. Prior to my current position, I was Director of Engineering in TRO division from 1995 to 2003. Before that, I held the position of manager of telecontrol, from 1998I'm sorry, from 1988 to 1995. I have held other positions within Hydro prior to that, such as senior protection and control engineering, both the engineering and construction division and the operations division, and I've also been a plant engineer 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as electrical design engineer in the engineering and construction division, and was promoted to supervising electrical engineer in 1998, and appointed to the Director of Engineering in August of 2003. Q. Mr. Martin, have you appeared before the Public Utilities before? MR. MARTIN: A. Yes, I have. Q. In Capital hearings as well as in the recent General Rate Application? Is that correct? MR. MARTIN: A. That is correct. Q. Mr. Holden, have you appeared before the Board before as well? MR. HOLDEN:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. I've been in my current position since August 1st, 2003. Q. And how long have you been with Hydro and what type of positions have you held in your career at Hydro? MR. MARTIN: A. I've been with Hydro for approximately 30 years. Prior to my current position, I was Director of Engineering in TRO division from 1995 to 2003. Before that, I held the position of manager of telecontrol, from 1998I'm sorry, from 1988 to 1995. I have held other positions within Hydro prior to that, such as senior protection and control engineering, both the engineering and construction division and the operations division, and I've also been a plant engineer at the Bay D'Espoir generating station and at 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as electrical design engineer in the engineering and construction division, and was promoted to supervising electrical engineer in 1998, and appointed to the Director of Engineering in August of 2003. Q. Mr. Martin, have you appeared before the Public Utilities before? MR. MARTIN: A. Yes, I have. Q. In Capital hearings as well as in the recent General Rate Application? Is that correct? MR. MARTIN: A. That is correct. Q. Mr. Holden, have you appeared before the Board before as well? MR. HOLDEN: A. Yes, I appeared before the Board at the
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. I've been in my current position since August 1st, 2003. Q. And how long have you been with Hydro and what type of positions have you held in your career at Hydro? MR. MARTIN: A. I've been with Hydro for approximately 30 years. Prior to my current position, I was Director of Engineering in TRO division from 1995 to 2003. Before that, I held the position of manager of telecontrol, from 1998I'm sorry, from 1988 to 1995. I have held other positions within Hydro prior to that, such as senior protection and control engineering, both the engineering and construction division and the operations division, and I've also been a plant engineer at the Bay D'Espoir generating station and at the Holyrood thermal generating station. 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as electrical design engineer in the engineering and construction division, and was promoted to supervising electrical engineer in 1998, and appointed to the Director of Engineering in August of 2003. Q. Mr. Martin, have you appeared before the Public Utilities before? MR. MARTIN: A. Yes, I have. Q. In Capital hearings as well as in the recent General Rate Application? Is that correct? MR. MARTIN: A. That is correct. Q. Mr. Holden, have you appeared before the Board before as well? MR. HOLDEN: A. Yes, I appeared before the Board at the Capital Budget hearing for 2003, which
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. I've been in my current position since August 1st, 2003. Q. And how long have you been with Hydro and what type of positions have you held in your career at Hydro? MR. MARTIN: A. I've been with Hydro for approximately 30 years. Prior to my current position, I was Director of Engineering in TRO division from 1995 to 2003. Before that, I held the position of manager of telecontrol, from 1998I'm sorry, from 1988 to 1995. I have held other positions within Hydro prior to that, such as senior protection and control engineering, both the engineering and construction division and the operations division, and I've also been a plant engineer at the Bay D'Espoir generating station. O. Similarly, Mr, Holden, how long have you been 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as electrical design engineer in the engineering and construction division, and was promoted to supervising electrical engineer in 1998, and appointed to the Director of Engineering in August of 2003. Q. Mr. Martin, have you appeared before the Public Utilities before? MR. MARTIN: A. Yes, I have. Q. In Capital hearings as well as in the recent General Rate Application? Is that correct? MR. MARTIN: A. That is correct. Q. Mr. Holden, have you appeared before the Board before as well? MR. HOLDEN: A. Yes, I appeared before the Board at the Capital Budget hearing for 2003, which occurred in 2002.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Page 35 Q. Mr. Martin, how long have you been in your current position? MR. MARTIN: A. I've been in my current position since August 1st, 2003. Q. And how long have you been with Hydro and what type of positions have you held in your career at Hydro? MR. MARTIN: A. I've been with Hydro for approximately 30 years. Prior to my current position, I was Director of Engineering in TRO division from 1995 to 2003. Before that, I held the position of manager of telecontrol, from 1998I'm sorry, from 1988 to 1995. I have held other positions within Hydro prior to that, such as senior protection and control engineering, both the engineering and construction division and the operations division, and I've also been a plant engineer at the Bay D'Espoir generating station. Q. Similarly, Mr. Holden, how long have you been with Hydro? What positions have you held with 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Page 36 MR. HOLDEN: A. I've been with Hydro for 23 years. I've been in my current position since August 2003. I started with Newfoundland Hydro in 1981 as electrical design engineer in the engineering and construction division, and was promoted to supervising electrical engineer in 1998, and appointed to the Director of Engineering in August of 2003. Q. Mr. Martin, have you appeared before the Public Utilities before? MR. MARTIN: A. Yes, I have. Q. In Capital hearings as well as in the recent General Rate Application? Is that correct? MR. MARTIN: A. That is correct. Q. Mr. Holden, have you appeared before the Board before as well? MR. HOLDEN: A. Yes, I appeared before the Board at the Capital Budget hearing for 2003, which occurred in 2002. Q. Turning now to the 2005 Capital Budget. we see

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

October 6, 2004 Mu	lti-P	age NL Hydro's 2005 Capital Budget Application
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1 GREENE, Q.C.:	1	indication of the age of the facilities and
2 Mr. Martin, that you are responsible in your	2	other factors that might be significant from a
3 division for all projects that appear there	3	Capital Budget perspective.
4 under "Transmission and Rural Operations" with	4	MR. MARTIN:
5 a total for 2005 indicated as 19.8 million?	5	A. Certainly. Mr. O'Rielly, could you go to the
6 (10:45 a.m.)	6	first map, please?
7 MR. MARTIN:	7	Q. And this is where you will see, in the slide
8 A. That is correct, yes.	8	that we have distributed, Mr. Martin will be
9 Q. And there on the next heading "General	9	reviewing the system maps and they will come
10 Properties" I believe you've indicated you are	10	up on the monitor as well.
11 responsible for vehicles and is vehicles found	11	MR. MARTIN:
12 within that heading of General Properties, Mr.	12	A. I'd like to start off by saying that systems
13 Martin?	13	that fall under the responsibility of TRO are
14 MR. MARTIN:	14	at various stages of their service lives. One
15 A. Yes, vehicles is found within that heading of	15	of the most important issues, I think, facing
16 General Properties. I am responsible for that	16	Hydro, the Public Utilities Board and the rate
17 portion of the vehicles in the administrative	17	payers is the aging infrastructure that we own
18 category, which for 2005 is estimated at	18	and operate and maintain. On the slide you
19 \$1,328,000.	19	see here now, this is a very basic
20 Q. Okay. Before we get into the specific	20	representation of the facilities we have in
21 projects, I wanted you to outline for the	21	Labrador. As you'll see, the green-lined
22 panel the system, to provide a brief	22	138kV line from Churchill Falls to Happy
23 description of the system for which you are	23	Valley-Goose Bay is roughly 255 kilometres
responsible in TRO and during the course of	24	long. We own, operate and maintain that, as
25 the description, I wanted you to give an	25	well as a gas turbine at the Happy Valley-
Page 3	39	Page 40
1 Goose Bay terminal station. We also have an	1	kV connection from the Cat Arm Generating
2 interconnected standby diesel plant at Happy	2	Station down into Deer Lake and then connected
3 Valley with a capacity of approximately 11. 7	3	back again to Massey Drive near Corner Brook.
4 megawatts, as well as distribution facilities	4	Laid on top of that, we have our 138 kV
5 at the Sheshatsheits Northwest River, as well	5	transmission system, roughly 1500 kilometres,
6 as the Happy Valley-Goose Bay area. In	6	very similar to our 230 kV system. I'll start
7 Western Labrador, we also have distribution	7	in the Deer Lake area with the 138 kV radial
8 facilities for Labrador City and Wabush.	8	transmission line to St. Anthony airport
9 Obviously we also have isolated diesel plants	9	terminal station. It's close to 400
10 in Labrador, and I'll cover those in a later	10	kilometres long and feeds approximately 10,000
11 slide.	11	customers in the Great Northern Peninsula
12 This is a map of our high-voltage	12	area. We also have a 138 kV loop coming out
13 transmission system at the 230 kV level.	13	of Stoney Brook in the middle of Newfoundland
14 Hydro owns and operates all of the 230 kV bulk	14	there, back around to South Brook, Springdale,
15 transmission system on the island with	15	Indian River, Howley, with an interconnection
16 terminal stations all the way in the east from	16	to our 75 megawatt Hydro plant at Hind's Lake.
17 Oxen Pond through Hardwoods, Sunnyside, west	17	We also have 138 kV facilities from Bottom
18 to the Bay D'Espoir generating station, and	18	Brook down to Doyles on the southwest coast,
19 you'll see connections then to the Upper	19	as well as down to a terminal station at
20 Salmon and Granite Canal plant. Then north	20	Grandy Brook, which feeds the Burgeo LaPoile
21 from Bay D'Espoir to Stoney Brook, west to	21	area of the province. In addition, we have
22 Buchans. All of these lines are parallel in	22	two 138 kV lines from Sunnyside down to
23 the main, as you'll see, and then west again	23	stations at Linton Lake and Salt Pond, and
24 to Massey Drive near Corner Brook and Bottom	24	they are basically providing service to our
25Brook near Stephenville. We also have a230	25	customers, our Newfoundland Power customer at

1 MB. MARTIN: 1 Disele plant on Little Bay Islands, another 2 those locations for the burn Peninsula. 2 one on S. Berndan's, as well as plants on the 3 Overlaid on that, we have our 69 kV 3 south coast of Newfoundland from Ramea to 6 the original transmission system providing 6 south coast of Newfoundland from Ramea to 7 service to catomers on the Great. Northerm 7 our 3700 kilometers of transmission line, we 8 Peninsula, maning again from Der Lake up 8 have 2500 kilometers of transmission line, we 9 through Rocky Harbour, Sally's Cove, Cow Head 9 poles on that system, and dapproximately 35 10 and Danief's Harbour, We also have 69 kV 10 percent have been in service for 30 years or 11 transing thigh of the Great 12 transformers, circuit breakers, protection and 12 terminal down into Rodekicton. 13 transformers, circuit breakers, protection and 14 Anthory, Main Brook and down into Rodekicton. 14 transformers, circuit breakers, protection and 15 In addition, we have a 69 kV line from the Bay 15 Approximately 43 percent		Page 41		Page 42
2 these locations for the Burin Perinsula. 2 one on St. Brendan's, as well as plants on the 4 transmission, roughly 700 kilometres long, 5 south coast of Newfoundland from Ramea to 5 primarily on the Northern Peninsula. This was 5 T a just like to give you an overview of 6 the original transmission from Der Lake up 8 south coast of Newfoundland from Xent Vertice 7 service to customers on the Great Northern 7 our 3700 kilometres of transmission line, we 8 Peninsula, running again from Der Lake up 8 have 2500 kilometres of vood pole line, 26,000 9 through Rocky Harbour, Sally's Cove, Cow Head 9 poles on that system, and approximately 35 10 and Daniel's Harbour. We also have 69 kV 10 procent have been in service for 30 years or 12 terminal station on the 0 of the Great 12 stations, they contain assets such as power 13 Anthony, Main Brook and down into Roddlickton. 14 control systems and other ancillary sequipment. 14 Anthony and Hawk's et erminal station. 13 Approximately 43 percent of Hydro's power 15 In addition, we have a 69 kV line	1	MR. MARTIN:	1	Diesel plant on Little Bay Islands, another
3 Overlaid on that, we have our 60 kV 3 south coast of Newfoundland from Ramea to 5 primarily on the Northern Peninsula. This was 6 Renconcure East. 5 primarily on the Northern Peninsula. This was 6 some of the aging facilities that we have. Of 6 the original transmission system providing 6 some of the aging facilities that we have. Of 7 service to customers on the Great Northern 7 out 7500 kilometres of wood pole line. 2,6,000 10 and Daniel's Harbour. We also have 69 kV 10 percent have been in service for 30 years of 11 transmission from the St. Anthony airport 11 more. Of our 55 high-volage terminal 13 transformers, circuit breakers, protection and control Systems and other ancillary equipment. 15 In addition, we have a 60 kV line from the Bay 15 Approximately 43 percent of high-volage circuit 18 providing service to customers on the 16 for our 30 years. 50 years of age. 17 20 Phylor operates and maintains 20 for our 30 years. 50 you 3000 kilometres of 20 21 providing service to customers on the 18 breakers, numbering 214, have been in service for well	2	those locations for the Burin Peninsula.	2	one on St. Brendan's, as well as plants on the
4 Rencontre East. 5 primarily on the Norheen Peninsuk. This was. 4 Rencontre East. 6 the original transmission system providing 5 T d just like to give you an overview of 7 service to customers on the Great Northern 7 some of the aging facilities that we have. Of 7 service to customers on the Great Northern 7 our 3700 kilometres of wood pole line. 26,000 9 through Rocky Harbour, Sally's Cove, Cow Head 9 poles on that system. and approximately 35 11 transmission from the St. Anthony airport 11 more. Of our 55 high-volage terminal 12 terminal station on the tip of the Great 12 stations, they contain assets such as power 15 In addition, we have a 69 kW Unic from the Bay 15 Approximately 43 percent of Hydro's power 16 D Fspoir generating station down to our 16 transformers, are in excess of 30 years of age. 17 English Harbour West terminal station. 17 Almos 50 percent of our high-volage circuit 18 proxiding service to customers on the 19 for over 30 years. For the 23 lootaled Diresel 20 <t< td=""><td>3</td><td>Overlaid on that, we have our 69 kV</td><td>3</td><td>south coast of Newfoundland from Ramea to</td></t<>	3	Overlaid on that, we have our 69 kV	3	south coast of Newfoundland from Ramea to
5 If just like to give you an overview of 6 the original transmission system providing 6 7 service to customers on the Great Northern 7 8 Peninsala, running again from Deer Lake up 8 9 through Rocky Harbour, Sally's Cove, Cow Head 9 10 and Daniel's Harbour. We also have 69 kV 10 11 transmission from the St. Anthony airport 11 12 transmissia to the community of St. 13 13 Northern Peninsula to the community of St. 13 14 Anthony, Main Brock and down ito Kodikukon. 15 15 In addition, we have a 69 kV line from the Bay 15 16 Dispoir generating station down to our 16 17 English Harbour West terminal station. 17 18 providing service to customers on the 18 19 Comaigre Peninsula. 19 For orer 30 years. Or our 3,000 kilometres of 20 Hydro operates and maintains 20 our 3,000 kilometres of 21 Japproximately - acta proximately, exactly 23 21 Many of those have been in service for well 21	4	transmission, roughly 700 kilometres long,	4	Rencontre East.
6 the original transmission system providing 6 some of the aging facilities that we have. Of 7 service to customers on the Great Northern 7 our 3700 kilometres of wood pole line, 26,000 9 through Rocky Harbour, Sally's Cove, Cow Head 9 poles on that system, and approximately 32 10 and Danie's Harbour, We also have 69 kV 11 more. Of our 55 high-voltage terminal 12 terminal station on the tip of the Great 12 stations, they contain assets such as power 13 Northern Peninsula to the community of 5t. 14 Anthony, Main Brook and down into Roddickton. 14 control systems and other ancillary equipment. 15 In addition, we have a 69 kV line from the Bay 15 Approximately 43 percent of Hydro's power 16 D'Espoir generating station down to our 16 transformers are in excess of 30 years of age. 17 English Harbour West terminal station, 17 Almost 50 percent of our high-voltage circuit 18 proviniting service to customers on the 18 breakers, numbering 214, have been in service for well 20 approximately-act approximately, exactly 23 10 Many of those are vice on well 33 21 approximately-act ap	5	primarily on the Northern Peninsula. This was	5	I'd just like to give you an overview of
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8 Peninsula, numing again from Deer Lake up 8 have 2500 kilometres of wood pole line, 26,000 9 through Rocky Harbour, Sally's Cove, Cow Head 9 poles on that system, and approximately 35 10 and Daniel's Harbour. We also have 69 kV 10 percent have been in service for 30 years of a more. Of our 55 high-voltage terminal 11 transmission from the SL. Anthony airport 11 control systems and other ancillary equipment. 13 Northern Peninsula to the community of SL. 13 transformers, circuit breakers, protection and 14 Anthony, Main Brook and down into Roddickton. 14 control systems and other ancillary equipment. 15 In addition, we have a 60 kV line from the Bay 15 Approximately 42 percent of Mytho's power 16 D'Espoir generating station down to our 16 transformers are in excess of 30 years of age. 17 English Harbour West terminal station. 17 Almost Of porcent of our fight-voltage terminal 20 Hydro operates and maintains 20 distribution lines, there were 75,000 poles. 21 approximately, exactly 23 21 Many of those have been in service for well 22 Loup near the Labrador/Quebee border, in the 23 syste	7	service to customers on the Great Northern	7	our 3700 kilometres of transmission line, we
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25 Eventually, this age is going to catch up with 25 A. Yes, I do.	24	for a wood pole transmission line.	24	MR. MARTIN:
		rote relieved inter-		

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Multi-Page [™]L Hydro's 2005 Capital Budget Application

Γ	Page 45		Page 46
1	GREENE, Q.C.:	1	MR. MARTIN:
2	Q. Mr. Holden, what was your involvement in the	2	A. The capital budget process in TRO starts at
3	project descriptions in Section B for the TRO	3	the regional level within the engineering
4	projects?	4	department. Each of the three regions
5	MR. HOLDEN:	5	develops their own individual proposals to
6	A. My involvement in the preparation of those	6	address legislative, safety, environmental,
7	justifications and explanations was to review	7	reliability and productivity improvements.
8	those cost estimates and explanations and	8	These are then reviewed by the managers in the
9	justifications for accuracy and clarity and	9	regions with their senior staff. The
10	then to assist with the assembly of the budget	10	engineering department also develops proposals
11	document for submission to this Board.	11	related to overall system reliability,
12	Q. Mr. Martin and Mr. Holden, evidence was pre-	12	performance, protection and control and
13	filed for transmission and rural operations on	13	metering.
14	August 10th. Do you accept the pre-filed	14	Following review at the regional and
15	evidence as your evidence for the purpose of	15	departmental level, a divisional budget
16	this hearing?	16	package is then prepared for my review. There
17	MR. MARTIN:	17	are a series of meetings held between myself,
18	A. Yes, I do.	18	the director of engineering and the regional
19	MR. HOLDEN:	19	managers to conclude which proposals will be
20	A. Yes, I do.	20	presented to executive management for
21	O. Mr. Martin, before we look at the specific	21	approval. The executive management then
22	projects, I wanted you to outline for the	22	reviews each individual project to ensure that
23	Board what is the capital budget, from your	23	it must be done to address customer and
24	perspective, and what is your involvement in	24	employee requirements and that there is
25	it as a vice-president?	25	sufficient justification for the project prior
F	Page 47		Page 48
1	to submission to Hydro's Board for approval	1	O. After a project is approved by the Public
2	and then ultimately, the Board of Public	2	Utilities Board, Mr. Martin, what would be
3	Utilities.	3	your involvement in the TRO projects that are
4	Q. And Mr. Holden, as the director of	4	approved?
5	engineering, what's your involvement in the	5	MR. MARTIN:
6	process Mr. Martin just outlined?	6	A. Following approval of the Capital Budget by
7	MR. HOLDEN:	7	the Board, my role is to ensure at a high
8	A. Well, as Mr. Martin described, the budget for	8	level that the projects are initiated and
9	both of us can originate either with the	9	completed as per schedule. Also, I conduct a
10	regional operations groups or within	10	monthly review of the project summary status
11	engineering, and in either case, the	11	reports which highlight such things as cost
12	engineering department completes the project	12	incurred to date, projected final completion
13	descriptions and justifications and the	13	date, and final forecast costs. It is also my
14	project estimates, and they do that in	14	responsibility then to make sure that any
15	consultation with the originating region and	15	anomalies or concerns that are observed during
16	department and with the planning department,	16	my review are addressed and reacted to.
17	and then before they're submitted then to the	17	Q. And Mr. Holden, as director of engineering,
18	budget review at the departmental and	18	what's your role after a project gets
19	divisional level, before it goes to executive	19	approval?
20	management for review and approval.	20	MR. HOLDEN:
21	Q. And you mention the engineering department.	21	A. Following approval of the Capital Budget, my
22	That's the department for which you are	22	role as director is to assign the project
23	responsible as director? Is that correct?	23	managers and teams for the individual projects
24	MR. HOLDEN:	24	and to ensure that they are completed on
25	A. Yes, that is correct.	25	schedule and within budget, and I also conduct

Multi-Page [™]L Hydro's 2005 Capital Budget Application

	Page 49		Page 50
1	MR. HOLDEN:	1	for under transmission and rural operations?
2	monthly review meetings on all projects with	2	Is that correct?
3	all the project managers to ensure that the	3	MR. MARTIN:
4	capital program is being implemented according	4	A. Yes, that's correct.
5	to the plan and according to the budget.	5	Q. Now if we could go to page A-3, Mr. O'Rielly,
6	Q. Now I'd like to turn to the specific 2005 TRO	6	please. Again, we talked about vehicles
7	capital projects, and I wonder, Mr. O'Rielly,	7	before and I believe you indicated that the
8	if you could just show us page A-2? Again,	8	vehicles show up in the administration.
9	just to confirm, Mr. Martin, for those that	9	They're a portion of the administration
10	are listedif you could scroll down a little	10	category here, under General Properties? Is
11	bit, Mr. O'Rielly. And I just realized, I	11	that correct?
12	should have indicated, Mr. O'Rielly as well.	12	MR. MARTIN:
13	Even though he's not a witness for Hydro, he's	13	A. That's correct.
14	a very important part of the process, and I	14	Q. Turning now to the breakdown of those projects
15	know that Commissioners Martin and Powell have	15	for which you are responsible, I wonder if we
16	seen him before, but Mr. O'Rielly will be here	16	could go to page A-6? This is where the
17	for all, the assistance of all counsel	17	breakdown of your projects start. The very
18	throughout the course of the hearing, with	18	first one there is replace the wood poles,
19	respect to information requirements. Sorry I	19	which is one of the significant TRO projects
20	didn't introduce you, Terry.	20	for 2005, at a cost of 2.6 million. Mr.
21	Under transmission and rural operations,	21	Martin, I wonder if you could please describe
22	Mr. Martin, just to confirm, those that are	22	this project? And here for the panel, I would
23	shown there under transmission and rural	23	indicate that this is the one project where
24	operations with the total of 19.8 million,	24	Mr. Martin would like tohas circulated
25	those are the ones that you are responsible	25	slides to further describe and explain the
	Page 51		Page 52
1	Page 51 project. Mr. Martin, could you please	1	Page 52 time, please?
1 2	Page 51 project. Mr. Martin, could you please describe the project?	1 2	Page 52 time, please? MR. MARTIN:
1 2 3	Page 51 project. Mr. Martin, could you please describe the project? MR. MARTIN:	1 2 3	Page 52 time, please? MR. MARTIN: A. Yes, if we could go to the next slide, Mr.
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1 2 3 4 5	Page 51 project. Mr. Martin, could you please describe the project? MR. MARTIN: A. Certainly. This proposal covers the first of a multi-year program involving the inspection,	1 2 3 4 5	Page 52 time, please? MR. MARTIN: A. Yes, if we could go to the next slide, Mr. O'Rielly, please? As I mentioned before, Hydro operates and maintains 43 wood pole
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1]	MR. MARTIN:	1	inspected basically 1270 poles. None of those
2	A. No, it doesn't include the distribution at	2	poles were rejected. They were all basically
3	all. The 75,000 wood poles that I mentioned	3	20 years old. They were still in fairly good
4	on the distribution system are not included in	4	shape. The preservative retention level in
5	this program.	5	the pole, which protects the pole from
6	Just a brief review of our historical	6	bacterial attack, fungi attack and insects and
7	maintenance practices that we've used just	7	so on, had depleted but not to the point where
8	until recently, it's a time-based program or	8	the poles were severely affected, and there
9	it was a time-based program, primarily visual	9	were none of those poles were rejected. In
10	in nature. We were doing helicopter patrols,	10	1998, during the upgrade of the steel
11	typically four times a year. We would do	11	transmission lines on the Avalon Peninsula,
12	climbing inspections of all of our	12	the Board will remember the question came up
13	transmission lines on a five-year interval,	13	as to "well, what are you planning to do with
14	which translates into roughly 20 percent of	14	your wood pole lines?"
15	each line we would inspect on a climbing	15	And as a part of the consequences of
16	inspection each year. As well, in the	16	looking at that, we went out again and
17	wintertime, we also did snowmobile patrols.	17	inspected another 1500 poles on the Avalon,
18	In the past, we've done some additional	18	which are of the same sample as the ones that
19	work, if you will, on some of these wood pole	19	were inspected in 1985. You'll see on the
20	lines and through the results of those	20	chart that 79 of those poles were rejected.
21	inspections, dating back to 1985, we did some	21	The cost of the replacement of those 79 poles
22	preservative retention testing of some of the	22	in 1998 was \$600,000. In 2000, we did a
23	poles to determine what the preservative	23	series of inspections in the Central region,
24	levels were in the poles after that particular	24	again, roughly 1500 poles. 82 of those were
25	aging period. So in 1985, on the Avalon, we	25	rejected and it cost us 42I'm sorry,
	Page 55		Page 56
1	\$420,000 to replace those poles. In 2002, we	1	there is a pole that has been obviously
2	inspected 273 wood poles on TL220, that's the	2	severely damaged by ant infestation, again
3	69 kV line I mentioned previously from Bay	3	because the preservative level in the pole had
4	D'Espoir feeding down to English Harbour West	4	been significantly depleted. In the top
5	on the Connaigre Peninsula. 27 of those poles	5	right-hand corner, you'll see what we call a
6	were rejected, and the replacement cost of	6	ball link eyebolt. This is a standard piece
7	those is currently under analysis, and I'll	7	of hardware on our transmission system, and
8	get back to that in a minute. In 2003, we	8	you can see that one of the pieces of
9	went island wide and we inspected 1943 poles	9	apparatus has been severely worn and if it had
10	and 133 of those were rejected, and again,	10	not been found, it was only a matter of time
11	they are currently under analysis.	11	before it wore through, resulting in failure.
12	What this slide is meant to show you is	12	This particular picture is not ours, but
13	that in that 13-year period from 1985 to 1998	13	it is meant to indicate the kinds of things
14	on to 2003, the number of poles that had to be	14	that you can get into with regards to a
15	rejected through inspection had obviously	15	conductor on our high-voltage lines. The
16	significantly increased, percentage wise.	16	arrow is pointing to a broken strand of
17	I thought the Board might be interested	17	conductor that has apparently fatigued, failed
18	in some of the things we found. This is the	18	under fatigue, as a result of vibration.
	butt end of a wood pole that has obviously	19	Fortunately, we haven't seen a lot of that yet
19	been attacked. It is severely rotted. It had	20	on our system. One of the things we have seen
19 20			
19 20 21	to be replaced. This is attributable to	21	is that the steel core of many of our
19 20 21 22	to be replaced. This is attributable to bacteria and fungi. The depletion level of	21 22	is that the steel core of many of our transmission conductors is showing signs of
19 20 21 22 23	to be replaced. This is attributable to bacteria and fungi. The depletion level of the preservative in the pole had gone to the	21 22 23	is that the steel core of many of our transmission conductors is showing signs of corrosion and deterioration and will
19 20 21 22 23 24	to be replaced. This is attributable to bacteria and fungi. The depletion level of the preservative in the pole had gone to the point where it was easily attacked and the	21 22 23 24	is that the steel core of many of our transmission conductors is showing signs of corrosion and deterioration and will ultimately have to be replaced. And last, but

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1 MI	R. MARTIN:	1	horizontal axis is the threshold for what we
2	obviously one that has slashed over, very	2	are using to retreat our poles now. We're
3	likely as a result of lightning or some other	3	using Boron, Boron rods, and what that does is
4	fault condition. So these are the types of	4	it raises the preservative level in the pole
5	things that in these inspections, we are	5	to a level again where it is resistive to
6	finding on an annual basis.	6	attack by insects and bacteria, fungi and so
7	I mentioned the preservative retention	7	on, and theoretically, at least by doing that,
8	levels in poles. I'll go back to what we	8	you should be able to preserve the pole from
9	found in 1985, and as I mentioned before, it	9	those types of attacks into the future. How
10	was a very small percentage below what we	10	long is anybody's guess, but we are convinced
11	called the effective level, and this is a bit	11	that we can, by doing this type of program, we
12	of a busy graph, but if you go down to the	12	can get at least another five, six, eight
13	graph, you'll see the horizontal red line	13	years out of these poles by retreating them
14	across the page, and that is what we call the	14	with Boron.
15	threshold level. In other words, we want to	15	Another part of the program that we
16	try and keep the preservative level in the	16	initiated, we set up a full-scale test bed at
17	pole to a minimum of .18 cubic feet. If we	17	Memorial University for actual destructive
18	can do that, the pole should be resistive to	18	testing of some of these poles, and the
19	attack. You'll see the other red curve coming	19	interesting thing that we found there was that
20	down shows you a typical depletion curve for	20	approximately 25 percent of the strengths of
21	Penta, which is one of our standard	21	the original strength of the poles 35 years
22	preservatives, and after 25 to 30 years, you	22	and older had gone. So a pole that initially
23	can see that that starts to cross over that	23	had a strength of say 8,000 psi was now down
24	minimum threshold line. The blue chart or the	24	to 6,000 after 35 years.
25	blue part of the graph, if you will, the	25	What we're proposing under this new
	Page 59		Page 60
1	program, and we certainly think it's an	1	program is the analysis of the data that we
2	improvement of what we've been doing in the	2	collect in the field as part of the inspection
3	past, is instead of something that's just time	3	before we replace the pole. We are convinced
4	based and visual in nature, we would base it	4	in the past thatwhen I mentioned rejection
5	on condition of the pole and we would vary the	5	rates before, these are rejection rates from
6	inspection rate, looking at initially a ten-	6	the actual inspections in the field. We think
7	year cycle, but depending again upon the age	7	in many cases it's not necessary to completely
8	of the pole and what we found, that inspection	8	replace the pole. We are convinced that of
9	cycle could be varied. The schedule itself	9	the rejection rate, approximately one-third of
10	will be revised based upon annual results of	10	those poles would not be required to have
11	the program to date. We would be using	11	anything done with them immediately. Another
12	improved inspection techniques over and above	12	third would probably be refurbished or somehow
13	what we had been using in the past, which	13	treated with regards to its overall strength
14	again were pretty well just sounding, just	14	by guying or something else like that, maybe
15	tapping the pole with a hammer or some other	15	putting in a stud pole, something much less
16	device to see what kind of sound it would	16	costly than replacing the pole in total. And
17	make, and from that determine whether or not	17	of course, another one-third then would
18	the pole had been affected. We also did some	18	probably have to be replaced. So this
19	boring in the past, but now in addition to	19	analysis part of the program, we think, is
20	that, we are looking at treating the pole.	20	something that is certainly worth doing.
21	We're looking at non-destructive testing of	21	I mentioned before that the results of
22	the pole and in some limited sense,	22	the testing in the field we would put into an
23	destructive testing again perhaps at the	23	overall comprehensive database to catalog
24	University.	24	basically every pole that we have out on the
25	Another significant part of this proposed	25	high voltage system. This program, in our

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1 MR	. MARTIN:	1	and disperses throughout the pole at that
2	estimation, will also give us a more effective	2	particular location and raises the retention
3	coordination of line maintenance, in that	3	level again of the preservative in the pole,
4	instead of just going out inspecting poles at	4	thereby protecting it from future attack.
5	one time, insulators at another time, we're	5	This technician here is doing some non-

inspecting the entire transmission line system

at the one time. We're going a climbing

inspection, we're looking at guys, poles,

insulators, hardware, and so on. Every

component of the transmission structure

itself, the transmission system, would be

inspected at that one time under this program.

These are just a couple of photos of some

here, we have a couple of line workers who are

of the inspection and treatment techniques

we're talking about using. In this photo

drilling a pole. They will drill three holes

around this connection point for a cross

brace. Three holes, approximately at a 45-

photo, they will insert the Boron rods. This

is actually a shot of a Boron rod being

inserted, the hole is capped with a plastic

degree angle around the pole and then--next

inserted into a pole. When the Boron rods are

cap, and over time, the Boron rod dissolved

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doing some nondestructive testing using a test set, using an 6 ultrasonic method, again to try and measure 7 the actual strength of the pole in situ. This 8 is a vibration detector that we've used in the 9 10 past and are using now on our high-voltage transmission lines. It's basically looking 11 for vibration which could ultimately lead to 12 the fatigue and the failure of the conductor 13 strains, as I showed you previously. And 14 here's an item that we don't have yet, but is 15 16 in development and is, I think, now being tested by some utilities in North America. 17 This is a corrosion detection device, and what 18 that--that piece of equipment is pulled along 19 a transmission line conductor and is meant to 20 be able to identify if the internal steel core 21 22 of a conductor has become corroded. As I mentioned before, we have found some of those 23 corroded conductors and have had to replace 24 25 them.

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1	The program objectives, we're looking at	1	transmission system are not loaded to their
2	next year we would hope to inspect 4, 000	2	ultimate capability, so if a pole has lost
3	poles. That number would decrease to 1600	3	some of its strength, it doesn't necessarily
4	poles by the end of the first ten-year cycle.	4	mean that it's got to be replaced. If it's
5	Obviously what we're trying to do is to get	5	only at half-loading in that particular point
6	the older poles first, the ones that need to	6	in a transmission system or transmission line
7	be treated immediately, and then we can	7	and its lost a quarter of its strength, you
8	decrease the program to catch, if you will,	8	don't necessarily need to replace the pole.
9	the younger poles or the newer poles later in	9	You may be able to do some other things or
10	the cycle. All the poles that we would	10	even just leave the pole like it is. So
11	inspect would be non-destructive testing. As	11	before we replace any poles, we're talking
12	I mentioned before, showing you the gentlemen	12	about looking at each one of them individually
13	there with the test set on the ground. They	13	with regards to condition and where it is in
14	would all be tested. Any pole 20 years or	14	the line and making a conscious decision as to
15	over would be treated with the Boron rods and	15	whether or not the poles should be replaced.
16	approximately 10 percent of those that are	16	Any rejected equipment, such as poles,
17	treated would be cored and the core of the	17	insulators, hardware, unless it's very serious
18	pole would be taken and analyzed to determine	18	and has to be done immediately, would be
19	what the preservative level in that particular	19	included for replacement in the next year's
20	pole had decreased to.	20	program, and obviously we would be prepared
21	(11:15 a.m.)	21	and want to update the Public Utilities Board
22	The rejection rate, again, would not be	22	on an annual basis with regards to the results
23	just based upon visual inspection. It would	23	and the effectiveness of the overall program.
24	be based upon condition and structural	24	I'm really starting to get into it now
25	analysis. Many of the poles on our	25	with some of these curves, but I'll carry on

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1 MR	. MARTIN:	1	We think it can have significant impact and a
2	anyway. This is just meant to give you an	2	positive impact on the costs to all of Hydro's
3	indication of how we think this thing will	3	customers.
4	work. This is what they call an IOWA curve.	4	I think we got one more, have we? No, we
5	It was produced by the University of Iowa in	5	got several more. The estimated cost of the
6	consult, I think, with the U.S. Army, and it's	6	program, as I mentioned before, is we
7	meant to show the survival rate of wood poles.	7	anticipate a savings of roughly four and a
8	This is what they call the 50-year IOWA curve.	8	half million dollars over the next 20 years,
9	And if I can give you an example, I wish I had	9	and I need to say that's just due to the
10	a pointer here, Mr. O'Rielly. If you could	10	treatment alone. The analysis aspects of this
11	take us to theI'll say the 35-year age,	11	program, we think will save significantly more
12	right. The blue line is, I'll say, the	12	dollars. Again, we're not sure of what
13	typical 50-year IOWA curve. What this shows	13	they'll be, but we're comfortable in saying
14	you is that after 35 years in service, you	14	they'll be significantly more. To do that, we
15	would expect a wood pole or the average of the	15	need a required budget of \$36 million over the
16	wood poles to have a survival rate of 90	16	next 20 years, and here again, I need to add,
17	percent. In other words, 10 percent would be	17	these are not all new dollars. These dollars
18	rejected, okay. After 45 years, the rejection	18	include everything from the inspection, the
19	rate would be closer toactually closer to 30	19	treatment, the testing, and where necessary,
20	percent, okay. What we're talking about doing	20	the refurbishment or replacement of these
21	is by treating these poles before they get to	21	components. And it's not a flat line. This
22	that stage, the survival rate will be	22	is meant again to indicate or give you an idea
23	significantly improved and we are looking at	23	of the expected cash flow of that program that
24	the second red line there is what we postulate	24	we're looking at. We're looking at dollars in
25	to be the improvement rate under this program.	25	the order of \$2.5 million in the initial
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1	years, reducing significantly to less than a	1	filter commercial, you can pay me now or pay
2	million dollars when we get out into the	2	me later. By doing this program now, we will
3	program and are inspecting a fewer number of	3	avoid significant costs ten years from now.
4	poles of a newer vintage. Again, you'll see	4	What the red line is meant to indicate is
5	out in 2015, after the first ten-year cycle,	5	if we don't get into the analysis and looking
6	the cost will rise again. Again, that's	6	at these poles, where they are, and looking at
7	because you're going to see more rejections	7	the condition of them and the loading, where
8	again of the older poles, and that program	8	they are in the system, we don't know where
9	will then continue out to around 2025, the 20-	9	the red line can go, but we are sure that it
10	year cycle.	10	will be significantly more than if we went
11	I think we'll try one more, Mr. O'Rielly.	11	ahead with this program. We could be looking
12	This again now is conceptual in nature. The	12	at line replacements here now in 2015 or
13	blue line, the blue line is what we are	13	shortly thereafterwards where now we think we
14	proposing with regards to our full wood pole	14	can extend the life of these lines by at least
15	line management program. The green line shows	15	20 years through this program.
16	you what the cost would typically be without	16	In conclusion, we think this program will
17	the treatment. You'll see in the initial	17	assist in the long-term planning of the high-
18	years we're spending incrementally just a few-	18	voltage transmission network. It will provide
19	-or I should say a small percentage more, and	19	a more reliable transmission system. It will
20	where the big payoff starts to come is out ten	20	extend the life of the line by a minimum of
21	years in 2015 where you can see the cost under	21	ten years, and result in significant cost
22	the no-treatment program are going to	22	savings to the rate payers.
23	significantly increase. That's because the	23	Q. Mr. Chair, that concluded the direct evidence
24	number of rejected poles is going to	24	with respect to that project, and I didn't
25	significantly increase. It's like the old oil	25	know your plans for this morning, if you

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Multi-Page [™]L Hydro's 2005 Capital Budget Application

	Page 69		Page 70
1	GREENE, Q.C.:	1	words, it's not necessary that we spend the
2	wished to take a break. If you do, this would	2	funds to replace those 27 poles right away.
3	be a good time.	3	And by being currently under analysis we are
4	CHAIRMAN:	4	looking at other ways and means of correcting
5	Q. Very good then. We'll take a 15-minute break.	5	the problems that was identified with those 27
6	Thank you.	6	poles, other than replacement. That's what I
7	(BREAK - 11:21 a.m.)	7	meant by currently under analysis. They will
8	(RESUME - 11:41 a.m.)	8	be remedied. The problems noted will be
9	CHAIRMAN:	9	remedied in the future. As a matter of fact,
10	Q. Ms. Greene, please.	10	the significant ones will be done as part of
11	GREENE, Q.C.:	11	next year's program.
12	Q. Mr. Martin, I did have one final question for	12	Q. And that's the same for the year 2003, is that
13	you on the wood pole management program and	13	correct?
14	it's with respect to your slide 10 that's	14	MR. MARTIN:
15	there on the screen. At the time you reviewed	15	A. That is correct.
16	it, you indicated you wanted to come back and	16	Q. Okay. Mr. O'Rielly, if you could go back,
17	explain what "currently under analysis" meant	17	please to page A-6 of the application. The
18	for the year 2002 and 2003 and I wonder if you	18	first project there is the one we just talked
19	can do that, please.	19	about, to replace wood poles and I don't plan
20	MR. MARTIN:	20	to do every project here, I'm sure everyone
21	A. Yes. What I meant was that when we completed	21	will be happy to hear, but there are the
22	the inspection of the poles on TL220 and had	22	significant ones that we will have briefer
23	the reports of the 27 rejections, our first	23	commentary on them, the direct evidence, than
24	analysis was that first of all it was not	24	we did for the wood poles. The next one I
~~	aritical that they be replaced. In other	25	
25	chucai that they be replaced. In other	25	would like to talk about is the second one
25	Page 71	25	would like to talk about is the second one Page 72
1	Page 71 there which is upgrade of TL221 And here.	1	Page 72 correct them. So when we finish this project.
25 1 2	Page 71 there which is upgrade of TL221. And here, Mr. Holden, could you please describe this	1 25	Page 72 correct them. So when we finish this project, this project will be implemented, proposed
1 2 3	Page 71 there which is upgrade of TL221. And here, Mr. Holden, could you please describe this project for the Board, please.	1 2 3	Page 72 correct them. So when we finish this project, this project will be implemented, proposed upgrade, will significantly improve the
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	Page 73		Page 74
1	MR. HOLDEN:	1	could describe what this project involves.
2	reliable service to our customers.	2	MR. MARTIN:
3	Q. The next category there is entitled,	3	A. Yes, the proposed interconnection of Rencontre
4	"Terminals." What type of projects are in	4	East provides for the construction of a 14.4kV
5	that category project?	5	single-phase distribution line from our
6	MR. HOLDEN:	6	English Harbour West distribution system to
7	A. In the "Terminals" category, the types of	7	the community of Rencontre East.
8	projects that you will find there are	8	In September 2002, the diesel plant
9	primarily to provide for replacement of assets	9	serving the community was completely destroyed
10	that have reached the end of their normal	10	by fire and a temporary plant was established
11	service lives, such as battery banks,	11	under emergency conditions. The current
12	instrument transformers and surge arrestors.	12	arrangement at Rencontre East is not suitable
13	One significant project in this category is	13	for the long term and I'll come back to
14	the installation of motor drive mechanisms and	14	address that in a second through the photos.
15	associated controls on the 230,000 volt	15	Since that time Hydro has completed a
16	disconnect switches. This is the last year of	16	comprehensive study of the most cost-effective
17	a three year program to eliminate the safety	17	way to provide long-term service to Rencontre
18	hazard created by these switches requiring to	18	East. As a matter of fact, we filed a report
19	be manually operated.	19	with our application under Tab 2. The report
20	Q. Could I have page A-7, Mr. O'Rielly, please.	20	is entitled, "Rencontre East Interconnection
21	The next category of projects in TRO is	21	Study." In that study, three alternatives
22	"Distribution" and the largest project here	22	were analyzed and evaluated. The first was to
23	from a dollar perspective is the	23	construct a new permanent diesel plant. The
24	interconnection of Rencontre East. I wonder,	24	second was to construct a new modular diesel
25	Mr. Martin, please, for the Panel, if you	25	plant and the third was the interconnection of
			\mathbf{r}
	Page 75		Page 76
1	Page 75 the Rencontre East to the island	1	Page 76 no heating, there's exposed rafters. It's a
1	Page 75 the Rencontre East to the island interconnected system.	1 2	Page 76 no heating, there's exposed rafters. It's a wood framed building with plywood covering.
1 2 3	Page 75 the Rencontre East to the island interconnected system. As the capital cost of the modular diesel	1 2 3	Page 76 no heating, there's exposed rafters. It's a wood framed building with plywood covering. You can see the space limitations. The engine
1 2 3 4	Page 75 the Rencontre East to the island interconnected system. As the capital cost of the modular diesel plant was approximately 50 percent higher than	1 2 3 4	Page 76 no heating, there's exposed rafters. It's a wood framed building with plywood covering. You can see the space limitations. The engine directly behind, if you will, on the far wall
1 2 3 4 5	Page 75 the Rencontre East to the island interconnected system. As the capital cost of the modular diesel plant was approximately 50 percent higher than the conventional plant, while other operating	1 2 3 4 5	Page 76 no heating, there's exposed rafters. It's a wood framed building with plywood covering. You can see the space limitations. The engine directly behind, if you will, on the far wall in the vellow is a the small unit that we
1 2 3 4 5 6	Page 75 the Rencontre East to the island interconnected system. As the capital cost of the modular diesel plant was approximately 50 percent higher than the conventional plant, while other operating and maintenance costs were very similar, the	1 2 3 4 5 6	Page 76 no heating, there's exposed rafters. It's a wood framed building with plywood covering. You can see the space limitations. The engine directly behind, if you will, on the far wall in the yellow is a the small unit that we salvaged from the Harbour Deep plant when that
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Page 75 the Rencontre East to the island interconnected system. As the capital cost of the modular diesel plant was approximately 50 percent higher than the conventional plant, while other operating and maintenance costs were very similar, the modular concept was eliminated from further analysis. A cumulative present worth analysis of the remaining two options shows a significant positive net benefit in favour of the interconnection over the study period. In addition, the interconnection provides for a reduced annual net revenue requirement over the new diesel plant after the first year of operations. The interconnection of Rencontre East is the least cost alternative to provide reliable service to customers in this community over the long term. And what we have here is just a couple of photos of what I call the makeshift installation that our guys valiantly put together within 36 hours of that plant being burned to the ground. There are numerous	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Page 76 no heating, there's exposed rafters. It's a wood framed building with plywood covering. You can see the space limitations. The engine directly behind, if you will, on the far wall in the yellow is a the small unit that we salvaged from the Harbour Deep plant when that particular facility was retired. The two engines, one of which you can see clearly on the right hand side with the Battlefield logo on it, there's very cramped conditions in there, very little room to work. The flooring itself, believe it or not are 2 X 4 studs laid on their side on the ground covered in plywood. There's no fire protection in there. The fuel system is not up to standard. We have no permit from the Department of Environment to operate this facility. We have an understanding with them that this is a temporary arrangement that we are going to remedy. I think we have a shot of the exterior and I must say, the guys went above and beyond the call of duty in making this look like, at
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Page 75 the Rencontre East to the island interconnected system. As the capital cost of the modular diesel plant was approximately 50 percent higher than the conventional plant, while other operating and maintenance costs were very similar, the modular concept was eliminated from further analysis. A cumulative present worth analysis of the remaining two options shows a significant positive net benefit in favour of the interconnection over the study period. In addition, the interconnection provides for a reduced annual net revenue requirement over the new diesel plant after the first year of operations. The interconnection of Rencontre East is the least cost alternative to provide reliable service to customers in this community over the long term. And what we have here is just a couple of photos of what I call the makeshift installation that our guys valiantly put together within 36 hours of that plant being burned to the ground. There are numerous things here with regard to this plant.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Page 76 no heating, there's exposed rafters. It's a wood framed building with plywood covering. You can see the space limitations. The engine directly behind, if you will, on the far wall in the yellow is a the small unit that we salvaged from the Harbour Deep plant when that particular facility was retired. The two engines, one of which you can see clearly on the right hand side with the Battlefield logo on it, there's very cramped conditions in there, very little room to work. The flooring itself, believe it or not are 2 X 4 studs laid on their side on the ground covered in plywood. There's no fire protection in there. The fuel system is not up to standard. We have no permit from the Department of Environment to operate this facility. We have an understanding with them that this is a temporary arrangement that we are going to remedy. I think we have a shot of the exterior and I must say, the guys went above and beyond the call of duty in making this look like, at least esthetically, a fine looking facility.

	Page 77		Page 78
1	MR. MARTIN:	1	specific systems where analysis of performance
2	diesel generator sets sticking out through the	2	statistics or the maintenance inspections have
3	buildings walls. The stack heights are	3	identified particular problems which we're
4	inadequate. You can see there's no exhaust	4	trying to correct.
5	fans on the roof. This is in every sense, a	5	Q. The last major category shown on page 7 is
6	temporary facility and I think it's a credit	6	called, "Generation." What types of projects
7	to our fellows that they've kept this thing	7	are in this category?
8	going for two years.	8	MR. HOLDEN:
9	Q. Going back to page A-7, what are the other	9	A. Projects in the "Generation" category include
10	types of projects, Mr. Holden, here in this	10	capacity additions to meet increasing load
11	category called "Distribution."	11	requirements. For example, replacing a diesel
12	MR. HOLDEN:	12	unit at the L'Anse au Loup plant was one of a
13	A. In the "Distribution" category the other	13	larger rating from one that was retired from
14	projects include job provision for service	14	the main plant is necessary in 2005 to meet
15	extensions and distribution system upgrades.	15	the forecast peak on that particular system.
16	These are annual allotments based on the	16	Another type of project which is found in
17	average of the previous five years of	17	this category is the replacement of diesel
18	expenditures. The estimates provide for the	18	generators which have come to the end of their
19	connection of new customers and the	19	useful service lives. In 2005 Hydro was
20	replacement of damaged and defective equipment	20	proposing to replace the unit at Williams
21	such as poles, insulators, conductor and	21	Harbour which has been in service for 30 years
22	transformers in the various distribution	22	and has already five major overhauls to it. A
23	systems serving the Hydro customers. That's	23	program to install fall arrest equipment at
24	all over the three regions. And there are	24	approximately 310 locations across the Hydro
25	additional projects that are targeted at	25	system is proposed to begin in 2005. This is
	Page 79		Page 80
1	Page 79 a four year program, estimated to cost	1	Page 80 reached the end of its service life. This is
1 2	Page 79 a four year program, estimated to cost approximately one million dollars and is	1 2	Page 80 reached the end of its service life. This is an important piece of equipment required to
1 2 3	Page 79 a four year program, estimated to cost approximately one million dollars and is required to bring Hydro's facilities into	1 2 3	Page 80 reached the end of its service life. This is an important piece of equipment required to ensure timely response and correction of
1 2 3 4	Page 79 a four year program, estimated to cost approximately one million dollars and is required to bring Hydro's facilities into compliance with recent legislation passed by	1 2 3 4	Page 80 reached the end of its service life. This is an important piece of equipment required to ensure timely response and correction of transmission line problems, particularly on
1 2 3 4 5	Page 79 a four year program, estimated to cost approximately one million dollars and is required to bring Hydro's facilities into compliance with recent legislation passed by the provincial government.	1 2 3 4 5	Page 80 reached the end of its service life. This is an important piece of equipment required to ensure timely response and correction of transmission line problems, particularly on Hydro's steel transmission structures which
1 2 3 4 5 6	Page 79 a four year program, estimated to cost approximately one million dollars and is required to bring Hydro's facilities into compliance with recent legislation passed by the provincial government. O. Turning now to page A-8, the category there	1 2 3 4 5 6	Page 80 reached the end of its service life. This is an important piece of equipment required to ensure timely response and correction of transmission line problems, particularly on Hydro's steel transmission structures which range in height from 60 to 85 feet. The
1 2 3 4 5 6 7	Page 79 a four year program, estimated to cost approximately one million dollars and is required to bring Hydro's facilities into compliance with recent legislation passed by the provincial government. Q. Turning now to page A-8, the category there called "General", what types of projects are	1 2 3 4 5 6 7	Page 80 reached the end of its service life. This is an important piece of equipment required to ensure timely response and correction of transmission line problems, particularly on Hydro's steel transmission structures which range in height from 60 to 85 feet. The consequences of not having this equipment
1 2 3 4 5 6 7 8	Page 79 a four year program, estimated to cost approximately one million dollars and is required to bring Hydro's facilities into compliance with recent legislation passed by the provincial government. Q. Turning now to page A-8, the category there called "General", what types of projects are in this category?	1 2 3 4 5 6 7 8	Page 80 reached the end of its service life. This is an important piece of equipment required to ensure timely response and correction of transmission line problems, particularly on Hydro's steel transmission structures which range in height from 60 to 85 feet. The consequences of not having this equipment would be extended forced outages, especially
1 2 3 4 5 6 7 8 9	Page 79 a four year program, estimated to cost approximately one million dollars and is required to bring Hydro's facilities into compliance with recent legislation passed by the provincial government. Q. Turning now to page A-8, the category there called "General", what types of projects are in this category? MR. HOLDEN:	1 2 3 4 5 6 7 8 9	Page 80 reached the end of its service life. This is an important piece of equipment required to ensure timely response and correction of transmission line problems, particularly on Hydro's steel transmission structures which range in height from 60 to 85 feet. The consequences of not having this equipment would be extended forced outages, especially during icing conditions which make climbing
1 2 3 4 5 6 7 8 9	Page 79 a four year program, estimated to cost approximately one million dollars and is required to bring Hydro's facilities into compliance with recent legislation passed by the provincial government. Q. Turning now to page A-8, the category there called "General", what types of projects are in this category? MR. HOLDEN: A. Within the "General" category there are three	1 2 3 4 5 6 7 8 9 10	Page 80 reached the end of its service life. This is an important piece of equipment required to ensure timely response and correction of transmission line problems, particularly on Hydro's steel transmission structures which range in height from 60 to 85 feet. The consequences of not having this equipment would be extended forced outages, especially during icing conditions which make climbing the structures impossible.
1 2 3 4 5 6 7 8 9 10 11	Page 79 a four year program, estimated to cost approximately one million dollars and is required to bring Hydro's facilities into compliance with recent legislation passed by the provincial government. Q. Turning now to page A-8, the category there called "General", what types of projects are in this category? MR. HOLDEN: A. Within the "General" category there are three sub-categories; metering, properties and tools	1 2 3 4 5 6 7 8 9 10 11	Page 80 reached the end of its service life. This is an important piece of equipment required to ensure timely response and correction of transmission line problems, particularly on Hydro's steel transmission structures which range in height from 60 to 85 feet. The consequences of not having this equipment would be extended forced outages, especially during icing conditions which make climbing the structures impossible. Q. The last area in the 2005 capital budget under
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	Page 81		Page 82
1	MR. MARTIN:	1	Q. Looking specifically at 2005, how was the 2005
2	A. Yes, it has.	2	capital requirements for the fleet affected as
3	Q. Could you please advise the Panel of the	3	a result of the review?
4	results of the review?	4	MR. MARTIN:
5	MR. MARTIN:	5	A. The implementation of the recommendations on
6	A. Yes, the fleet review was conducted by our	6	the 2005 capital budget is estimated at
7	Manager of Transportation Services and three	7	\$500,000 in reductions for on road vehicles
8	other managers representing the operational	8	and an estimated \$60,000 reduction for mobile
9	divisions of TRO and Production. The purpose	9	equipment units.
10	of the review was to ensure that Hydro's	10	Q. From earlier years, is that correct?
11	vehicle and mobile equipment fleet was at the	11	MR. MARTIN:
12	minimum required. In summary, the results of	12	A. That is correct.
13	the fleet review were as follows: A reduction	13	Q. Does this conclude your direct evidence at
14	in the number of on road vehicles; i.e., cars,	14	this time?
15	pickups, cherry picketer, etcetera, by 23	15	MR. MARTIN:
16	units; a reduction in the number of off-road	16	A. Yes, it does.
17	vehicles, heavy track equipment such as	17	Q. Thank you, Mr. Chair, that concludes our
18	muskegs, etcetera, by six units; and a	18	direct evidence.
19	reduction in the number of mobile equipment	19	CHAIRMAN:
20	units, that is, ATV's, snowmobiles, etcetera,	20	Q. Thank you, Ms. Greene. Mr. Hayes.
21	by 34 units. The total estimated savings in	21	MR. HAYES:
22	capital replacement cost is approximately 2. 2	22	Q. Thank you, Mr. Chair. Good morning, Mr.
23	million dollars over a five year time frame	23	Martin. I'd ask Mr. O'Rielly if he could
24	with an annual operating budget savings of	24	please bring up the response to request for
25	approximately \$100.000.	25	information NP-02 NLH Thank you I'm not
			information fill 02 field. I fill not
	Page 83		Page 84
1	Page 83 going to direct this question to either Panel	1	Q. Thank you, that's all the questions for this
1 2	Page 83 going to direct this question to either Panel member in particular, whoever wishes to answer	1 2	Q. Thank you, that's all the questions for this Page 84
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1 2 3 4 5	Page 83 going to direct this question to either Panel member in particular, whoever wishes to answer it can do so. Newfoundland Power's question in the request for information asks for the levelized cost of production at the Roddickton	1 2 3 4 5	Page 84 Q. Thank you, that's all the questions for this Panel, Mr. Chair. CHAIRMAN: Q. Thank you, Mr. Hayes. Mr. Hutchings. HUTCHINGS, Q.C.:
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Multi-Page [™]L Hydro's 2005 Capital Budget Application

	Page 85		Page 86
1	HUTCHINGS, Q.C.:	1	amount of the capital budget that Hydro is
2	Q. And were you employed in the private industry	2	proposing for 2005 under thesein these four
3	during that time?	3	areas, is that correct?
4	MR. MARTIN:	4	MR. MARTIN:
5	A. I operated my own business, yes, I did.	5	A. That's correct, totalling \$42,431,000.
6	Q. And did that involve you in capital budgeting	6	Q. If we could look now to Page B-1. This has
7	for an enterprise during that time?	7	the same heading, "2005 Capital Budget
8	MR. MARTIN:	8	Overview" but the totals there for the capital
9	A. No, not very extensively at all.	9	budget in most cases are slightly less than
10	Q. Mr. Holden, I think you spent some time with	10	the amounts are, at least for the 2005 capital
11	the provincial government before joining	11	budget and for the total, those two totals are
12	Hydro, is that correct?	12	somewhat less.
13	MR. HOLDEN:	13	(12:00 p.m.)
14	A. Yes, that's correct.	14	MR. MARTIN:
15	HUTCHINGS, Q.C.:	15	A. That's right.
16	Q. Have you worked in a private enterprise during	16	Q. Yes. And as I understand it, this reflects
17	your career at all?	17	the fact that the Section B deals only with
18	MR. HOLDEN:	18	the projects that Hydro regards as being over
19	A. No, I haven't.	19	\$50,000, is that correct?
20	Q. I just want to getmake sure we're oriented	20	MR. MARTIN:
21	properly with respect to the documentation	21	A. That's correct.
22	that we have. Mr. Martin, maybe if we brought	22	O. Okay, all right. So there are items within
23	up page A-1 of the budget. This is entitled,	23	Section A, obviously, that don't show up in
24	"2005 Capital Budget Overview" and as I	24	Section B.
25	understand it, this represents the total	25	MR. MARTIN:
		-	
	Page 87	-	Page 88
1	Page 87	1	Page 88 because of the sub heading, if you will, the
1 2	Page 87 A. Correct. O. If we couldfor instance, on page A-7, the	1 2	Page 88 because of the sub heading, if you will, the ones referred to in B-40, if you will, come
1 2 3	Page 87 A. Correct. Q. If we couldfor instance, on page A-7, the last line on that page refers to replacement	1 2 3	Page 88 because of the sub heading, if you will, the ones referred to in B-40, if you will, come under the heading of "Terminals," These are
1 2 3 4	Page 87 A. Correct. Q. If we couldfor instance, on page A-7, the last line on that page refers to replacement of battery banks at L'Anse au Loup and Hawke's	1 2 3 4	Page 88 because of the sub heading, if you will, the ones referred to in B-40, if you will, come under the heading of "Terminals." These are all battery banks at our terminal station
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	Page 89		Page 90
1	MR. MARTIN:	1	Q. Whatand I'm referring you now to the
2	A. No, as Mr. Holden suggested, what we would try	2	response to IC-86. And at line 20 of that
3	to do is if we are replacing a group of	3	response, the answer speaks of the
4	battery banks in terminal stations, they would	4	classification of units of property. Why
5	be grouped together as a single project,	5	would Hydro regard a battery bank as being a
6	described as a single project and put under	6	unit of property within the definition that
7	the heading of "Terminals". Similarly with	7	they provided here?
8	diesel plants back on page A-7. So whether	8	MR. MARTIN:
9	there's one, two or five, our intention would	9	A. Again, you know, this is perhaps better
10	be to combine them altogether under the asset	10	referred to somebody in Finance who is
11	group, if you will, of terminals, generation	11	actually involved in setting up the unit of
12	and bring forward one proposal for that	12	properties. But again I would refer you to
13	particular group of batteries.	13	line, starting on line 24. "A unit of property
14	\circ But it is a question of happenstance as to	14	is defined as that which is independently
15	whether or not there's enough being replaced	15	operational readily separable from the prime
16	under any particular heading in a given year	16	asset and useful in its own right " So, for a
17	to bounce it into Section B is that correct?	17	battery bank it could be taken out of the
10	MD MADTIN.	17	Hardwoods terminal station, and theoratically
10	MR. MARTIN.	10	moved somewhere also on its own right and
19	\$50,000 threshold it descript as into Section	19	anoved somewhere else on its own right and
20	p	20	is a distinct antity if you will or asset
21	D. O Is a battery hank recorded as a unit of	21	and that's why it's set up as such under
22	Q. Is a battery ballk regarded as a unit of	22	"Units of Property "
23		23	Onits of Property.
24	MR. MARTIN:	24	Q. And you regard it then in the same class as
25	A. I es, it is.	27	The other examples that are there tike a dam of the
	· · · · · · · · · · · · · · · · · · ·	25	
	Page 91	23	Page 92
1	Page 91 or a turbine or a wood post structure?	1	Page 92 MR. MARTIN:
1 2	Page 91 or a turbine or a wood post structure? MR. MARTIN:	1 2	Page 92 MR. MARTIN: A. I'm not sure where you're going to get the
1 2 3	Page 91 or a turbine or a wood post structure? MR. MARTIN: A. In the context of it being a unit of property,	1 2 3	Page 92 MR. MARTIN: A. I'm not sure where you're going to get the 2003 years.
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October 6, 2004

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17 as Logid, it will apple our system	16 performance and protection of the system. And 16 A. Fes, we ve maintained records of	ii niaaa
1/ as I said, it will enable our system 1/ clearing times, but that s not what this piece	17 as I said, it will enable our system 17 clearing times, but that s not what the	ns piece
18 performance people to analyze and diagnose 18 of equipment is for. This piece of equipment	18 performance people to analyze and diagnose 18 of equipment is for. This piece of equipment is to help us diagnose, it's not a pro-	quipinent
20 faster rate and thereby reduce the duration of 20 device. The protection systems will still	20 faster rate and thereby reduce the duration of 20 device. The protection systems wi	11 still
20 nation rate and mereby reduce the duration of 20 device. The protection systems will still 21 outages and help us to identify problems on 21 clear faults and protect the system. What	20 nation rate and mereby reduce the duration of 20 device. The protection systems will 21 outages and help us to identify problems on 21 clear faults and protect the system	What
	22 the system and help us - 22 this fault recorder does is to record	1 the
22 the system and help us - 22 this fault recorder does is to record the	22 units fault recorder does is to record 23 O I'm sorry go ahead 23 events pre-fault and immediately fol	llowing the
22 the system, and help us - 22 this fault recorder does is to record the 23 0. I'm sorry, go ahead. 23 events pre-fault and immediately following the	24 MR HOLDEN: 24 fault and allows us to be able to anal	lyze the
22the system, and help us -22this fault recorder does is to record the23Q. I'm sorry, go ahead.23events pre-fault and immediately following the24MR. HOLDEN:24	25 A - and to improve the performance overall and $25 system events and diagnose the trouble of the tr$	ble.
	the system, and help us - 22 this fault recorder does is to record	1 the
22 the system, and help us - 23 0 I'm sorry go ahead 23 events pre-fault and immediately following the	25 Q. I in sorry, go aread. 24 MR HOLDEN: 24 MR HOLDEN: 24 MR HOLDEN: 25 Q. I in sorry, go aread. 26 Events pre-rault and miniculately for	lyze the
22the system, and help us -22this fault recorder does is to record the23Q. I'm sorry, go ahead.23events pre-fault and immediately following the24MR. HOLDEN:24	25 A - and to improve the performance overall and $25 system events and diagnose the trouble of the$	ble.

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

00	tober 6, 2004 Multi	-P	age №L Hydro's 2005 Capital Budget Application
	Page 97		Page 98
1	MR. HOLDEN:	1	immediately. If we got a fault on the system
2	whether it be a cross arm break or an	2	in the middle of the night, then our
3	insulator failure or a jumper disconnection.	3	performance engineer and our operating people
4	The information from the relays are collected	4	can look at the sequence of events at that
5	together into this recorder and summed up in	5	particular station collectively and be able to
6	such a way that we can improve and greatly	6	determine very quickly where the fault is and
7	increase our analysis times.	7	what the nature of the fault was, and then
8	Q. The purpose of the diagnosis that this	8	thereby enable them and our operations people
9	recorder does is for the purpose of allowing	9	to be able to restore power much faster.
10	you to correct the fault quicker? Is that not	10	Diagnose a problem and restore the service to
11	correct?	11	the customers faster.
12	MR. HOLDEN:	12	(12:15 p.m.)
13	A. Allows us to analyze the fault quicker and	13	Q. Okay. So you're improving your response time
14	thereby implement a correction. That's	14	as a result of this device?
15	correct.	15	MR. HOLDEN:
16	Q. Okay. So I got the impression from your	16	A. Yes, that is correct.
17	earlier answer that, you know, the protection	17	Q. Okay. My question to you is did you compile
18	on the system would deal with the fault anyway	18	the statistics to show that your response
19	and this is just a recorder that you could	19	times up to this point were not up to
20	look at later on and that's not a correct	20	standard?
21	situation description, is it?	21	MR. HOLDEN:
22	MR. HOLDEN:	22	A. No, we didn't compile statistics to record our
23	A. No, that is correct in a simple form, yes, but	23	response times. When I'm talking about
24	it's a recorder that collects all the	24	response times, I'm talking about response
25	information so that we can analyze it	25	times and diagnosis times required by the
	Page 99		Page 100
1	performance engineers to diagnose a problem.	1	the biggest added benefits of it is that it
2	Q. I mean, from the customer's point of view,	2	allows our performance engineers to go in an
3	obviously the faster the better, but how much	3	analyze what happened during that disturbance.
4	money do you throw at making it a minute or	4	Did the relaying operate properly? Did the
5	two minutes faster is the real issue here and	5	remote end relaying operate properly? Did the
6	what my question is is: is there some standard	6	breaker operate properly? Did the
7	that is being violated on this system that	7	transformers, if they had to do anything,
8	mandates that you do need more capital	8	operate properly? Did disconnects perform
9	expenditure in order to get this system up to	9	property? Was the reclosing for the line to
	the standard of the rest of the system?	10	put the line back in service, and all of that
	MR. MARIIN:	11	stull perform property? And what it will allow the performance angineer to do is say
$ ^{12}_{12}$	A. Maybe I could just offer aflo, there is no	12	and the performance engineer to do is say
13	acuinment will be invaluable in analysing	13	equipment at that site and at remote sites and
14	faults on the west coast of the system	14	in the vicinity operated the way they should
15	Basically what it does is it's sitting there	15	have
17	continuously monitoring what's going on at the	17	Now perhaps sometimes you would find they
18	Bottom Brook terminal station and beyond in	18	didn't and then that tool is invaluable in
19	the immediate vicinity of the station. On the	19	allowing us to go out and change relay
$ _{20}^{1}$	detection of a disturbance the recorder is	$\frac{1}{20}$	settings look at perhaps breaker problems or
$\begin{bmatrix} 20\\ 21 \end{bmatrix}$	triggered and what is saves is the pre-fault	20	some other functional control problems we may
$ _{22}$	fault and post-fault data. It saves all of	22	have had there, and make sure that the next
$ _{23}^{-2}$	that. And what that data is invaluable in	23	time around, when we get into a disturbance
24	doing, after the fault occurs and everything	24	like that or something similar. the system
25	is put back on and all the rest of it, one of	25	reliability will be improved because we will

	Page 101		Page 102
1	MR. MARTIN:	1	MR. HOLDEN:
2	have found that problem and corrected it.	2	A. This is a performance enhancement device, as
3	That's really the gist of what that piece of	3	it relates to the system performance and the
4	equipment is for.	4	delivery to the customers, yes.
5	We have them at most of our 230 kV	5	O. And are you able to quantify the value of the
6	transmission sites across the island. We just	6	enhancement that is being provided by this
7	this year had one approved by the Board last	7	equipment?
8	vear to put one in Bay D'Espoir. We have them	8	MR HOLDEN
9	in Massey Drive We have them in Buchans	9	A That's difficult to quantify in the terms that
	This is a standard piece of utility equipment	10	I think you may be asking As Mr. Martin
11	that's used by protection and performance	11	pointed out the fault recorder has three main
12	angineers across the country and it is	12	functions First of all it helps us to
12	involuable as I say in being able to analyze	12	determine that the protection equipment is
13	these system disturbances so that in the	13	operating properly and it helps us to
14	future, the reliability to our sustamore will	14	determine if the protection equipment is
15	he increased evently to our customers will	15	determine in the protection equipment is
16	be increased overall. And pardon me for the	16	operating improperty. And the third great
17	speech.	17	value to this piece of equipment is that when
18	Q. No, no, this is helpful because it's sending	18	you do get a disturbance, right now what
19	us where we need to get to. I take it from	19	happens is the performance engineers, in order
20	what you said that not all of your terminal	20	to diagnose what happened, supposing the power
21	stations are so equipped at this time?	21	was off on the line, supposing the line
22	MR. HOLDEN:	22	tripped off coming out of Bottom Brook and it
23	A. No, that's correct.	23	was off and we were trying to find out where
24	Q. Okay. And this is really a performance	24	the trouble was or what the nature of the
25	enhancement device?	25	trouble was, the performance engineers would
	Page 103		Page 104
1	Page 103 have to take the information from all the	1	Page 104 the customers and to be able to restore power
1 2	Page 103 have to take the information from all the individual protective relays in the station	1 2	Page 104 the customers and to be able to restore power as quickly as possible.
1 2 3	Page 103 have to take the information from all the individual protective relays in the station and somehow or another manually correlate it	1 2 3	Page 104 the customers and to be able to restore power as quickly as possible. Q. All right. But you're not in a position to
1 2 3 4	Page 103 have to take the information from all the individual protective relays in the station and somehow or another manually correlate it in order to find the sequence of events and be	1 2 3 4	Page 104 the customers and to be able to restore power as quickly as possible. Q. All right. But you're not in a position to say to us that the clearing time in respect of
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	Page 105		Page 106
1	MR. HOLDEN:	1	inspections. Is that correct?
2	steel structures and the operating handles to	2	MR. HOLDEN:
3	operate those disconnects are inside the	3	A. That's not correct. The inspections help us
4	perimeter of the steel structure. So the	4	to find problems, but the risk of an insulator
5	operator, in order to open and close the	5	failing or some other part of the disconnect
6	switch by the manual mechanism, the person has	6	switch failing during operation is not
7	to stand directly under the disconnect switch.	7	minimized to any great degree by the
8	That's what we consider to be an unacceptable	8	inspections. We can only just look at the
9	hazard. It's a safety hazard to the employees	9	disconnect and inspect it, and if there's a
10	and by installing the motor operators, the	10	part that appears to be broken, then it can be
11	employees now can open and close these	11	replaced, but it doesn't eliminate the safety
12	disconnect switches either from the control	12	hazards that you have when you operate the
13	room, in some cases, or in some other cases.	13	disconnect.
14	hy remote push-button station that allows them	14	O But if the device has been inspected then the
15	to stand clear of the switch while it's going	15	chances of it failing in the course of this
16	through its operation	15	operation are reduced, are they not?
17	O Is this a function that would ordinarily be	17	MP HOLDEN.
10	Q. Is this a function that would ordinarily be	10	A Vos from a statistical point of view you
10	MD HOLDEN.	10	A. Les, from a statistical point of view you
19	MR. HOLDEN:	19	Could say that.
20	A. Normany that's a function that would be	20	Q. And this project involves eight of these
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	And L understand that there have have	21	switches and now many have already been done?
22	Q. And I understand that there have been	22	MR. HOLDEN:
23	inspections and while the risk is not	23	A. As we said earlier, this is the third year of
24	completely eliminated, the risks have been	24	a three-year program. In 2003, we did ten
25	considerably reduced as a result of the	25	disconnect switches in the Sunnyside ferminal
	5		
	Page 107		Page 108
1	Page 107 station, and in 2004, we're just in the	1	Q. Not as an individual item, but I mean, these
1 2	Page 107 station, and in 2004, we're just in the process now of completing seven disconnects	1 2	Q. Not as an individual item, but I mean, these are the ones that you were prepared to leave
1 2 3	Page 107 station, and in 2004, we're just in the process now of completing seven disconnects and they were on the west coast stations. So	1 2 3	Q. Not as an individual item, but I mean, these are the ones that you were prepared to leave to last?
1 2 3 4	Page 107 station, and in 2004, we're just in the process now of completing seven disconnects and they were on the west coast stations. So that's 17. And next year, we plan to finish	1 2 3 4	Q. Not as an individual item, but I mean, these are the ones that you were prepared to leave to last? MR. HOLDEN:
1 2 3 4 5	Page 107 station, and in 2004, we're just in the process now of completing seven disconnects and they were on the west coast stations. So that's 17. And next year, we plan to finish the program by completing eight more	1 2 3 4 5	Page 108 Q. Not as an individual item, but I mean, these are the ones that you were prepared to leave to last? MR. HOLDEN: A. That is correct.
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	Page 109		Page 110
1	CHAIRMAN:	1	Q. Just one other item, Mr. Chair. Mr. Alteen
2	Q. Fine. Thanks, Mr. Hutchings. We'll adjourn	2	had to leave and go back to the office and
3	until 2:00.	3	I've asked Mr. Lorne Henderson, as
4	(LUNCH BREAK - 12:26 p.m.)	4	Newfoundland Power's director of regulatory
5	(RESUME - 2:01 p.m.)	5	affairs to assist me this afternoon. He's
6	CHAIRMAN:	6	sitting here at the table.
7	Q. Ladies and gentlemen, are there any	7	CHAIRMAN:
8	preliminary matters before we begin the	8	Q. Fine. Thank you. Good afternoon, Mr.
9	afternoon session?	9	Henderson. Mr. Hutchings, I think you're back
10	MR. KENNEDY:	10	at bay.
11	Q. Yes, Chair. Just one oversight. We need to	11	HUTCHINGS, Q.C.:
12	enter the power point presentation that the	12	Q. I am. Thank you, Mr Chair. Just moving along
13	current panel witnesses used at the beginning	13	now to another project to consider, gentlemen,
14	of their direct as an exhibit. And with the	14	and I leave it to you whoever wishes to
15	Board's permission, it would be FM GH No. 1.	15	respond to this. I'm looking at page B-42,
16	CHAIRMAN:	16	which, which is the replacement of instrument
17	Q. What's that again, Mr. Kennedy?	17	transformers on the system. Can you explain
18	MR. KENNEDY:	18	for us exactly what function these particular
19	Q. FM GH No. 1, where it's a panel we use both	19	transformers are performing?
20	sets of initials.	20	MR. MARTIN:
21	CHAIRMAN:	21	A. Yes. Potential and capacitive voltage
22	Q. Very good. Thank you.	22	transformers are used in our terminal stations
23	MR. KENNEDY:	23	primarily to drop the primary voltage at the
24	Q. Thank you, Chair.	24	station or at the bus such as 230 kV, 138 kV
25	HAYES, Q.C.:	25	or 69 kV down to a level which is suitable for
	Page 111		Page 112
1	Page 111 input to either protection and control	1	Page 112 A. Or voltage, yes.
1 2	Page 111 input to either protection and control equipment or metering. So typically they drop	1 2	Page 112 A. Or voltage, yes. Q. Or voltage, yeah.
1 2 3	Page 111 input to either protection and control equipment or metering. So typically they drop the high voltage of 230,000 volts down to 115	1 2 3	Page 112 A. Or voltage, yes. Q. Or voltage, yeah. MR. MARTIN:
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	Page 113		Page 114
1	MR. MARTIN:	1	provide critical overloadage protection of the
2	CT because of load growth or something else,	2	power system equipment from lightening and
3	we have removed current transformers out of	3	switching surges." So these are generally
4	station, put in a higher rated current	4	installed on the high voltage side of power
5	transformer and then obviously have been able	5	transformers and on the low voltage side of
6	to use, where appropriate, the recovered one,	6	power transformers to protect the power
7	if you will, perhaps at another site where a	7	transformer from either a switching surge or a
8	lower capacity would do.	8	lightening strike. So they're used to protect
9	Q. Okay. But I understand from the explanation	9	very valuable equipment. Some of these power
10	that's been provided that these are not	10	transformers could cost a couple of million
11	repairable items, if they fail, then they are	11	dollars each. And these protective devices
12	replaced?	12	are used to protect that equipment from
13	MR. MARTIN:	13	lightening strikes.
14	A. Generally speaking when one of these devices	14	Q. Okay. And these surge arrestors are all
15	fails, it's a catastrophic failure and it	15	pretty much the same item, are they, do they
16	cannot be repaired.	16	vary in their characteristics?
17	Q. Okay. If we move along then to B-44, this is	17	MR. MARTIN:
18	dealing with surge arrestors. Maybe you could	18	A. Again, we use them on the bulk electrical
19	briefly explain to us the function of that	19	system, we would have them at 69 kV, 138 kV
20	item?	20	and 230 kV voltage levels.
21	MR. MARTIN:	21	Q. So that would be a different item for each?
22	A. Yes. If I could refer you to the operating	22	MR. MARTIN:
23	experience on page B-44, it gives there	23	A. Yes.
24	basically the usage, if you will, of a surge	24	Q. Voltage level, okay. I think you gave us an
25	arrestor where it states "Surge arrestors	25	estimate of about \$3000 in average cost of
	Page 115		Page 116
1	Page 115 those items?	1	Page 116 required?
1	Page 115 those items? MR. MARTIN:	1	Page 116 required? MR. MARTIN:
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	Page 117		Page 118
1	MR. HOLDEN:	1	installation. And what we want to do in this
2	A. I wouldn't characterize it as destroying that	2	project here is to reroute these cables
3	piece of equipment. It did suffer some damage	3	through the duct bank to the station so that
4	in the course of our operations last year and	4	it would be secured in a much better fashion
5	it was direct buried cable, and the exact	5	than what they are now.
6	location of that direct buried cable was a	6	Q. Okay. And just so I'm clear on the result
7	little bit off according to our drawing	7	here, your customers having provided funds
8	information and that's how the damage	8	earlier to put this cable in place, you're now
9	occurred. And it was equipment that was	9	asking the customers to replace it after Hydro
10	installed back in the 1970s in the original	10	did the damage to it, is that correct?
11	part of the Bay d' Espoir development.	11	MR. HOLDEN:
12	Q. So somebody with Hydro obviously dug in a	12	A. That is correct.
13	place that they shouldn't have dug and this	13	Q. Okay. If we can move now, and I'm trying to
14	was the result?	14	move through these as quickly as we can, given
15	MR. HOLDEN:	15	the time that we have, and look at the project
16	A. That is correct.	16	at page B-71, that's the Roddickton mini hydro
17	Q. Okay. And you say the property wasn't	17	dam? The operating experience here indicates
18	destroyed. But I take it it does need to be	18	that engineering assessments indicated that
19	replaced?	19	due to the construction of the structure it
20	MR. HOLDEN:	20	was not feasible to repair or replace
21	A. Yes, it does need to be replaced. The damage	21	individual sections, it would have to be
22	that we incurred, we were able to make	22	replaced in its entirety. Can you expand on
23	temporary repairs such that we could stay in	23	that at all as to why it's not possible to do
24	operation. But really, those temporary	24	some repair to this dam rather than simply
25	repairs are not suitable for permanent	25	having to replace the whole thing?
	Page 119		Page 120
1	Page 119 MR. HOLDEN:	1	Page 120 of the structure, the rock that fills the crib
1	Page 119 MR. HOLDEN: A. Yes, okay. In our operating experience we use	1	Page 120 of the structure, the rock that fills the crib will be reused, and the crib itself, the
1 2 3	Page 119 MR. HOLDEN: A. Yes, okay. In our operating experience we use the term homogenous construction. And the way	1 2 3	Page 120 of the structure, the rock that fills the crib will be reused, and the crib itself, the timbers for the crib and the wood face on the
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$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $	Page 119 MR. HOLDEN: A. Yes, okay. In our operating experience we use the term homogenous construction. And the way this dam is built, it's built in timber cribs much like you'd see at the base of a distribution pole, and they're interlocking from one crib to the next just like a wharf would be built. And so it's very difficult to take bits and pieces of that apart at any one time and replace that part without extracting to the next piece. So, it goes on and on for the whole extent of the dam. Plus the fact that the deterioration of the untreated timber is more or less the same right across the whole face of the dam, so you really can't, and there's no point in replacing just one part, you have to replace it all. So it's an interlocking timber crib dam that has to be taken apart in totality and put back together in totality. Q. And is the proposal to remove the existing structure entirely and put in a new structure in place? MR. HOLDEN:	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Page 120 of the structure, the rock that fills the crib will be reused, and the crib itself, the timbers for the crib and the wood face on the dam will all be replaced. Q. We put a request for information in connection with this project to you, that's IC-18. If we could look at that for a moment? You had referred in the project justification to an economic analysis. Do I take it that page 2 of 2 of IC-18 was a preexisting document that was something that you had prior to the question being asked? MR. HOLDEN: A. Yes. That's the economic analysis, I believe, that we did in order to prepare the justification for the project proposal. Q. Okay. And is this the extent of the economic analysis, is there anything, any other background or other documents associated with that? MR. HOLDEN: A. The extent of the economic analysis was to estimate the repair cost and compare that against the life cycle benefits for the plant

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Multi-Page [™]L Hydro's 2005 Capital Budget Application

	Page 121		Page 122
1	MR. HOLDEN:	1	there, can you just explain for us what you
2	that analysis.	2	mean by that?
3	Q. Okay. On this page under "Assumptions" you	3	MR. HOLDEN:
4	simply list the capital for 2005 as 231,500,	4	A. If my understanding is correct, that's the
5	that's the project that you're seeing approval	5	cost of equivalent energy produced at
6	of at this point?	6	Holyrood. I think that's how we calculate the
7	MR. HOLDEN:	7	value of the production from this plant, we
8	A. That's correct.	8	calculate it by energy that would have to be
9	Q. Okay. And the only other assumption you have	9	replaced by some other source.
10	there is the operator and operatoroperating	10	Q. No, I understand that. I mean, you've got the
11	and maintenance costs in 2030 dollars at	11	annual energy there, the Holyrood conversion
12	19,100? Under the heading of "Assumption".	12	and the Holyrood variable O and M and so on,
13	MR. HOLDEN:	13	but the capacity value, I take it that's
14	A. Oh, yes, that's correct, yes.	14	intended to be in some fashion related to the
15	(2:15 p.m.)	15	capacity as opposed to the energy that this
16	Q. Okay. On the left-hand side under that	16	damor the Roddickton, meaning Hydro,
17	heading of "Assumptions" I take it these are	17	provides to the system?
18	all other assumptions that feed into this	18	MR. HOLDEN:
19	particular analysis. We have the annual	19	A. Yes, if my understanding is correct, yeah.
20	escalation and so on. The install capacity	20	Q. Okay. And this \$100 per kilowatt per year is
21	now existing at Roddickton is 400 kilowatts,	21	a number I've seen before, and that relates to
22	is that correct?	22	a gas turbine, does it, the cost for a new gas
23	MR. HOLDEN:	23	turbine?
24	A. Yes, that is correct.	24	MR. HOLDEN:
25	O Okay And the capacity value at the bottom	25	A Is it a gas turbing?
25	Q. Okay. And the capacity value at the bottom	25	A. Is it a gas turbine?
23	Page 123	23	Page 124
1	Page 123 MR. MARTIN:	1	Page 124 that's intended to mean?
1 23	Page 123 MR. MARTIN: A. Yes. The CT, the CT equivalent is combustion	1 23	Page 124 that's intended to mean? MR. HOLDEN:
1 2 3	Page 123 MR. MARTIN: A. Yes. The CT, the CT equivalent is combustion turbine, it's a gas turbine equivalent, that's	1 2 3	Page 124 that's intended to mean? MR. HOLDEN: A. I think that refers to the cost of operating
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1 2 3 4 5 6	Page 123 MR. MARTIN: A. Yes. The CT, the CT equivalent is combustion turbine, it's a gas turbine equivalent, that's right. Q. Yes, okay, all right. So when we get down into the analysis itself on the option of	1 2 3 4 5 6	Page 124 that's intended to mean? MR. HOLDEN: A. I think that refers to the cost of operating the plant, the daily operating costs. Is that correct, Fred? MR. MARTIN:
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	Page 125		Page 126
1	HUTCHINGS, Q.C.:	1	in or whatever right away. So there is a time
2	operator in there?	2	lag between the time you retire the plant and
3	MR. HOLDEN:	3	come up with an alternative. And I'm thinking
4	A. If I could elaborate on that, the cost of the	4	here that the operator is stillI think I'm
5	operator here, as Mr. Martin described, is the	5	with Mr. Holden, I really don't understand the
6	operator for this plant. But this plant will	6	-
7	operate for a portion of 2005 before and after	7	Q. Okay. All right.
8	the dam reconstruction. The dam	8	GREENE, Q.C.:
9	reconstruction will take probably three months	9	Q. We will provide the answer to the question in
10	and then of course for the other nine months	10	the form of an undertaking. (UNDERTAKING)
11	of the year the plant will be in production.	11	HUTCHINGS, Q.C.:
12	Q. No, I understand that. I'm looking under the	12	Q. Yeah, I'd like an undertaking that we get that
13	option for this economic analysis of retiring	13	information. And I have a few other questions
14	the plant. If the plant is going to be	14	on this and it may be that these witnesses
15	retired, I'm assuming that it's not operating	15	will be able to help and we may need to get
16	in 2005. So, I don't understand why there's a	16	other undertakings, I guess. The other
17	cost for the operator on the scenario whereby	17	primary question I had, Mr. Martin and Mr.
18	the plant is being retired in 2005.	18	Holden, is in relation to the heading of
19	MR. HOLDEN:	19	"Capacity" under the option of retired plant.
20	A. I can't answer that question.	20	And in the year 2011 there's a charge there
21	MR. MARTIN:	21	that starts at \$13,113 and continues on for
22	A. Again, you can see we're struggling with this.	22	the balance of the life of the study. Can you
23	But the way I would look at this is the	23	provide us with the derivation for that
24	operator, we cannotwe have to do something	24	number?
25	in 2005. You can't put a combustion turbine	25	MR. MARTIN:
	Page 127		Page 128
1	Page 127 A. I think in the interests of time and all what	1	A. Sure. Page 128
1 2	Page 127 A. I think in the interests of time and all what we need to do in the undertaking is to be able	1 2	Page 128 A. Sure. Q. Just from a point of view of operations,
1 2 3	Page 127 A. I think in the interests of time and all what we need to do in the undertaking is to be able to respond to all of those questions	1 2 3	Page 128 A. Sure. Q. Just from a point of view of operations, though, I take it that we're agreed that
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1	HUTCHINGS, Q.C.:	1	Domestic Customers and so on.
2	you probably wouldn't go out and buy a 400	2	Q. Okay. And are you able to say whether any of
3	kilowatt gas turbine?	3	this metering or the transformers and so on
4	MR. MARTIN:	4	would relate to services being provided to
5	A. I would agree with that.	5	Industrial Customers?
6	Q. Yeah, okay. All right. Okay. I think we	6	MR. MARTIN:
7	need to get the answers to the undertakings	7	A. I do believe that should weobviously at the
8	and then we'll see whether we have to pursue	8	Industrial Customers now we have revenue
9	any other questions related to that particular	9	metering equipment installed. Should a meter
10	project. Just so you're aware, as I said	10	at one of those locations be vandalized or
11	earlier, Mr. Coxworthy and I have divided	11	damaged or whatever, then a replacement meter
12	these amongst ourselves, so don't assume that	12	I am confident will be bought out of this
13	because I've skipped over one, there might not	13	particular budget package, yes.
14	be a question on it before we're through.	14	Q. Okay. So this again is a sort of an annual
15	MR. MARTIN:	15	allotment for items that are going to become
16	A. We won't be comforted by that at all, I'm	16	necessary during the course of the year based
17	sure.	17	on historical experience?
18	Q. Quick question on page B-100. This is	18	MR. MARTIN:
19	purchase of meters and equipment for the TRO	19	A. That's correct.
20	system. Is this all related to the	20	Q. Okay. And these are generally pieces of
21	distribution side or is some of this on the	21	equipment that will be add ons for the
22	common system?	22	purposes of metering delivery of electricity
23	MR. MARTIN:	23	at a particular point?
24	A. This primarily is on the distribution system	24	MR. MARTIN:
25	for all of our General Service Customers,	25	A. For new customers, ves.
-			
	Page 131		Page 132
	Page 131 o. Yes, Okay, Or replacement of other	1	Page 132 existing line depots and so on. But the
1 2	Page 131 Q. Yes. Okay. Or replacement of other equipment?	1 2	Page 132 existing line depots and so on. But the amount of equipment and the type of equipment
1 2 3	Page 131 Q. Yes. Okay. Or replacement of other equipment? MR. MARTIN:	1 2 3	Page 132 existing line depots and so on. But the amount of equipment and the type of equipment that they brought to those locations, they
1 2 3 4	Page 131 Q. Yes. Okay. Or replacement of other equipment? MR. MARTIN: A. Certainly.	1 2 3 4	Page 132 existing line depots and so on. But the amount of equipment and the type of equipment that they brought to those locations, they include things like chain saws, gas operated
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1 H	UTCHINGS, Q.C.:	1	MR. MARTIN:
2	roofing and siding repairs to the line depots?	2	A. I'm sure we could, with some effort, make it
3 N	IR. MARTIN:	3	available by going back through our estimate
4	A. Yes.	4	files and coming up with it, yes.
5	Q. That's accurate, is it?	5	(2:30 p.m.)
6 N	IR. MARTIN:	6	Q. Okay. I mean, I don't want to create an undue
7	A. Yes.	7	burden here. I guess the point that we're
8	Q. So this is a repair project primarily?	8	getting to is that repairs would normally not
9 N	IR. MARTIN:	9	be capital items and new construction if
10	A. Some of it is repair, yes.	10	justified would be. So ifare you able to
11	Q. Yes, okay. And what portion of this relates	11	isolate what out of this project constitutes
12	to repair of existing depots and what portion	12	new construction, I guess, is the question.
13	relates to construction of new sheds?	13	And I'll leave it to you as to whether you
14 N	IR. MARTIN:	14	wish to do the necessary work to come up with
15	A. I don't have a breakdown and I don't know if	15	an answer for that.
16	we responded to that in one of the RFIs. Just	16	MR. MARTIN:
17	bear with me one second, please.	17	A. I do believe we could come up with an answer
18	O. I don't believe we got that level of detail.	18	if the Board thought it helpful in their
19 N	IR. HOLDEN:	19	deliberations. I guess the question you're
20	A. No, we didn't respond to that question in	20	raising is whether or not the repairing of
21	either one of the RFIs. The RFIs were IC-22	21	roofing and siding and so on is a capital
22	and IC-75.	22	expenditure?
23	O. Right. And that wasn't the question that was	23	O. Um-hm.
24	put in respect of this particular item. Is	24	MR. MARTIN:
25	that information that you have available?	25	A. And in our discussions in consultations with
	5		
	Page 135		Page 136
1	Page 135 the Department of Finance we have been advised	1	Page 136
1	Page 135 the Department of Finance we have been advised that it should be And again I think this is	1	Page 136 A. That's correct.
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1 2 3 4 5 6 7 8 6 9 10 11 12 14 13 14 15 16 17 18 19 20 21	Page 135 the Department of Finance we have been advised that it should be. And again, I think this is based upon materiality. But I should defer those questions and those comments to perhaps somebody more knowledgable in the financial area. Q. Okay. All right. No, I - REENE, Q.C.: Q. And that would be Mr. Roberts. Mr. Roberts will be a witness at the hearing who will speak to Hydro's capitalization policies. UTCHINGS, Q.C.: Q. Yes, I intended to pursue it with Mr. Roberts. I'm just trying to get the basic facts in terms of, you know, the confirmation from this witness that what we are talking about is a repair as opposed to a new construction and then we can deal with Mr. Roberts on how that gets characterized afterwards. Okay. So we're clear on this then, there are storage sheds at both Baje Verte and Son's Arm which	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Page 136 A. That's correct. Q. Okay. And were you able to retire any facilities at LaScie or Springdale as a result of relocating the line workers from those areas? MR. MARTIN: A. The line depot at Springdale is still a very active site for us in that area. We are able to retire and have retired the LaScie depot. As a matter of fact, we are looking at agreement with the volunteer fire department in the Town of LaScie to donate it to them for a communications facility for their volunteer fire department. Q. Okay. Do you know what value that's being carried on at in the books of Hydro at the present time? MR. MARTIN: A. No, I do not. Q. Okay. If we look for a moment then at B-105? And this is the GPS system. I remarked
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	Page 137		Page 138
1	HUTCHINGS, Q.C.:	1	to use that piece of equipment?
2	For what purpose is this global positioning	2	Q. Yes.
3	system used at the present time?	3	MR. MARTIN:
4	MR. MARTIN:	4	A. I'm not sure what the economic life is, but I
5	A. It's basically used to carry out precise	5	would assume we would be able to use a piece
6	surveys, both for legal survey requirements as	6	of equipment like this for at least ten years.
7	well as transmission line surveys where a	7	Q. Your project justification says that the
8	level of accuracy, a high level of accuracy is	8	project will eliminate the annual repair and
9	required for the survey results.	9	rental costs and based on this analysis the
10	Q. And I guess I'm just trying to picture this	10	cost of the project will be recovered in
11	system. I presume this is a mobile piece of	11	approximately six years. I take it that's the
12	equipment that is taken to the field and used	12	extent of the economic analysis that's gone
13	to mark specific locations in a very accurate	13	into this one?
14	manner?	14	MR. MARTIN:
15	MR. MARTIN:	15	A. That's pretty much it.
16	A. Yes. This is a standard piece of equipment	16	Q. Yeah, okay. No, that's fine. Does Hydro do
17	that our survey crews use on a very regular	17	all of its surveying in-house or do you
18	basis in the field.	18	contract out surveying services as well?
19	Q. Okay. And the current equipment you say is	19	MR. MARTIN:
20	ten years old and is costing 4000 to service	20	A. We do some surveying in-house and as well as
21	per year. Do you know the service, the	21	we contract out some survey work.
22	intended service life of the new equipment?	22	O. Can you give us an idea of the size of your
23	MR. MARTIN:	23	in-house surveying operation?
24	A. You mean theves. You mean the service, how	24	MR. MARTIN:
25	long we actually would anticipate being able	25	A. We have three surveyors, basically, on staff.
	Page 139		Раде 140
1	O And I take it this is a single piece of	1	other activities as well
	equipment you only have one of these at the	2	O Is this replacement of the GPS related at all
	present time and you're going to replace that	3	to the further project that appears at B-108
	one?	4	relative to legal surveys of your distribution
5	MR MARTIN [.]	5	line right of ways?
6	A That's correct And the crew would use that	6	MR MARTIN.
	one piece of equipment	7	A Again I'm going to make an assumption that
	O Yes okay Has that level of surveying	8	the piece of equipment we're looking at
	activity been fairly constant within Hydro	9	purchasing here would be used in some of this
	over the last number of years or would that	10	work So I think to answer your question
	vary when you're putting in new transmission	11	it's ves
$ _{12}^{11}$	lines and so on?	12	O Okay I did have some other questions about
12	MR MARTIN	13	the B-108 specifically. Was any consideration
14	A The level of activity would vary from year to	14	given to a legislated solution to this
15	vear again depending upon the amount of	15	problem? Simply asking Government to pass
16	capital work requiring surveyors. But what we	16	legislation vesting these right-of-ways in
17	try to do is with most of our operations if	17	Hydro without having to incur this expense
18	we get into an area where we have neaks if	18	which seems to be going to go on for a number
10	you will, in the resource requirements that's	19	of years?
20	where we would look at bringing in either	20	MR MARTIN
$ _{21}^{20}$	temporary help or contracting work out to	21	A I don't know with certainty but to my
$ _{22}^{-1}$	shave off those neaks while maintaining the	22	knowledge, there was no attempt made to go for
23	normal level of operations, if you will with	23	a legislative change to accommodate us in this
$ _{24}^{-3}$	our permanent staff. That's the way we handle	24	regard
		24	icgaiu.
25	it not only for surveying but for a lot of	24	Q. Are you aware of any particular problems that

	Page 141		Page 142
1	HUTCHINGS, Q.C.:	1	along that line of questioning, Mr. Hutchings.
2	would exist if one tried to pursue that	2	HUTCHINGS, Q.C.:
3	solution, other than any normal problem of	3	Q. No, I understand that, Mr. Chair. I mean,
4	getting a piece of legislation passed? Your	4	there's no real other way to raise this, other
5	shareholder should have some interest in	5	than to suggest that there might have been
6	saving you a few dollars, I would think.	6	alternatives and, you know, Hydro can respond
7	GREENE, Q.C.:	7	appropriately and Ms. Greene has certainly
8	Q. Mr. Chair, this really is a legal issue and I	8	begun that response now. In terms ofMr.
9	can speak for Hydro with respect to this. The	9	Martin, just let me ask you this. Can you add
10	issue of the lack of rights-of-way for Hydro	10	anything with respect to Hydro's thinking on
11	and of easements arose back earlier in the	11	why this particular project should be regarded
12	90s. We did have discussions with Crown Lands	12	as capital as opposed to an operating item?
13	and they told us it would be no deviation with	13	MR. MARTIN:
14	respect to any normal practice for Hydro. At	14	A. No, again, I think that's something that we
15	that time, we did undertake, because we were	15	would have to refer to Mr. Roberts in the
16	having problems with respect to not having	16	finance department.
17	appropriate legal title in a number of areas,	17	Q. Okay. I'm happy to do that. All right. I
18	and Mr. Martin wasn't involved in that at that	18	want to skip ahead now, if we can, Mr. Martin,
19	time. The B-108 comes as a result of really	19	to the vehicle projects, B-147 and 149, and I
20	direction from the legal department to the TRO	20	understand that the management of vehicles
21	department, as a result of problems we had in	21	generally for Hydro falls to your division,
22	discussions with Crown Lands.	22	whether or not your division is actually using
23	CHAIRMAN:	23	the vehicles. Is that fair?
24	Q. Thank you, Ms. Greene. I really don't see	24	MR. MARTIN:
25	much point in progressing with these witnesses	25	A. Yes, that's correct.
		-	
	Page 143		Page 144
1	Page 143 Q. Yes, okay. Just before we get to the	1	Page 144 capital budget since at least our 2001 GRA, in
1 2	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can	1 2	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting
1 2 3	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8.	1 2 3	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the
1 2 3 4	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a	1 2 3 4	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than
1 2 3 4 5	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace	1 2 3 4 5	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total
1 2 3 4 5 6	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than	1 2 3 4 5 6	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than
1 2 3 4 5 6 7	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description,	1 2 3 4 5 6 7	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have
1 2 3 4 5 6 7 8	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you	1 2 3 4 5 6 7 8	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets
1 2 3 4 5 6 7 8 9	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000	1 2 3 4 5 6 7 8 9	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year
1 2 3 4 5 6 7 8 9 10	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B?	1 2 3 4 5 6 7 8 9 10	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this.
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1 2 3 4 5 6 7 8 9 10 11 12	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been	1 2 3 4 5 6 7 8 9 10 11 12	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is
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1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment,	1 2 3 4 5 6 7 8 9 10 11 12 13 14	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos,	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos, and so on, all of which have a value of less	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record with regard to it.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos, and so on, all of which have a value of less than \$50,000, and if I'm not mistaken, this is	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record with regard to it. HUTCHINGS, Q.C.:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos, and so on, all of which have a value of less than \$50,000, and if I'm not mistaken, this is the way we've always summarized this and 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record with regard to it. HUTCHINGS, Q.C.: Q. Yes, and I think, Mr. Chair, you harken back
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos, and so on, all of which have a value of less than \$50,000, and if I'm not mistaken, this is the way we've always summarized this and presented it to the Board. 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record with regard to it. HUTCHINGS, Q.C.: Q. Yes, and I think, Mr. Chair, you harken back to my earlier questions about things like
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos, and so on, all of which have a value of less than \$50,000, and if I'm not mistaken, this is the way we've always summarized this and presented it to the Board. GREENE, Q.C.: 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record with regard to it. HUTCHINGS, Q.C.: Q. Yes, and I think, Mr. Chair, you harken back to my earlier questions about things like instrument transformers where if there are
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos, and so on, all of which have a value of less than \$50,000, and if I'm not mistaken, this is the way we've always summarized this and presented it to the Board. GREENE, Q.C.: Q. Yes, and I was going to interject here again. 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record with regard to it. HUTCHINGS, Q.C.: Q. Yes, and I think, Mr. Chair, you harken back to my earlier questions about things like instrument transformers where if there are six, then they're over the \$50,000 limit and
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos, and so on, all of which have a value of less than \$50,000, and if I'm not mistaken, this is the way we've always summarized this and presented it to the Board. GREENE, Q.C.: Q. Yes, and I was going to interject here again. The way of doing this, which is the second 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record with regard to it. HUTCHINGS, Q.C.: Q. Yes, and I think, Mr. Chair, you harken back to my earlier questions about things like instrument transformers where if there are six, then they're over the \$50,000 limit and if there's five, they're under the \$50,000
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos, and so on, all of which have a value of less than \$50,000, and if I'm not mistaken, this is the way we've always summarized this and presented it to the Board. GREENE, Q.C.: Q. Yes, and I was going to interject here again. The way of doing this, which is the second time Mr. Hutchings has raised it, has been the 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record with regard to it. HUTCHINGS, Q.C.: Q. Yes, and I think, Mr. Chair, you harken back to my earlier questions about things like instrument transformers where if there are six, then they're over the \$50,000 limit and if there's five, they're under the \$50,000 limit. So I'm not sure the practice is
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Page 143 Q. Yes, okay. Just before we get to the particulars of those two projects, if we can go back for a moment to Section A at page A-8. Toward the bottom of the page here, there is a project listed which is described as "Replace Light Duty Mobile Equipment, less than \$50,000" and notwithstanding that description, the budget allotment is \$260,000. Can you explain for us why that amount of \$260,000 hasn't made it's way into Section B? MR. MARTIN: A. Again, I think the way this thing has been organized is that the individual items within that category of Light Duty Mobile Equipment, that includes items such as ATVs, ski-doos, and so on, all of which have a value of less than \$50,000, and if I'm not mistaken, this is the way we've always summarized this and presented it to the Board. GREENE, Q.C.: Q. Yes, and I was going to interject here again. The way of doing this, which is the second time Mr. Hutchings has raised it, has been the process agreed upon with the Board and the 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Page 144 capital budget since at least our 2001 GRA, in fact the year before. This way of presenting it has been the agreed practice with the Board. If each individual item is less than \$50,000, there'll all summed up with a total amount, but each individual piece is less than 50. So that has been the practice as we have done since we started doing capital budgets and has been reviewed each and every year prior to this. CHAIRMAN: Q. I can still appreciate where Mr. Hutchings is coming from, so I'll still allow, you know, some questioning along those lines. I would like to get some information on the record with regard to it. HUTCHINGS, Q.C.: Q. Yes, and I think, Mr. Chair, you harken back to my earlier questions about things like instrument transformers where if there are six, then they're over the \$50,000 limit and if there's five, they're under the \$50,000 limit. So I'm not sure the practice is consistent and just to illustrate a point so

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October 6, 2004

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	Page 145		Page 146
1	HUTCHINGS, Q.C.:	1	where possibly it's useful to think about
2	respect to -	2	changing the rules.
3	GREENE, Q.C.:	3	GREENE, Q.C.:
4	Q. And I guess, the last point I'll make is one	4	Q. And I would also point out, there is another
5	of the issues that Hydro has with the process	5	process underway, the Capital Budget Process
6	is that the rules of the game keep changing.	6	Review, where this type of exercise of review
7	I would like to make it noted for the record	7	for improvements hopefully in the process
8	that we have done is consistent every single	8	moving forward, is also underway as a separate
9	year and has been approved by the Board in the	9	exercise.
10	past. If the rules are going to change, we	10	CHAIRMAN:
11	would like advance notice of it, and as I	11	Q. Yes, thank you.
12	said, this practice has been made known to the	12	HUTCHINGS, Q.C.:
13	Industrial Customers at every previous	13	Q. That's perfectly legitimate. Thank you, Mr.
14	hearing. It's very difficult to prepare when	14	Chair. Am I correct, Mr. Martin, that this
15	the rules of the game change as you're playing	15	project at page A-8 is generally dealing with
16	the game.	16	off-road equipment?
17	(2:45 p.m.)	17	MR. MARTIN:
18	CHAIRMAN:	18	A. Yes, that's correct.
19	Q. I can appreciate that, Ms. Greene. But in any	19	Q. Do you have any notion of the number of units
20	event, I'd just like to get some of this	20	that would be contemplated to be acquired in
21	information on the record, and I do appreciate	21	2005 under this heading?
22	and note the comment you made.	22	MR. MARTIN:
23	HUTCHINGS, Q.C.:	23	A. No, I don't have that information with me.
24	Q. I understand where Hydro is coming from, and I	24	Q. Okay. I take it that's something you could
25	guess part of this exercise is to highlight	25	find for us?
	Page 147		Page 148
1	Page 147 MR. MARTIN:	1	Page 148 trigger that once a certain car, for example,
1 2	Page 147 MR. MARTIN: A. Yes, certainly.	1 2	Page 148 trigger that once a certain car, for example, gets X number of kilometres on it, it is then
1 2 3	Page 147 MR. MARTIN: A. Yes, certainly. Q. I'd appreciate if we could have an undertaking	1 2 3	Page 148 trigger that once a certain car, for example, gets X number of kilometres on it, it is then closely scrutinized, I guess, with regard to
1 2 3 4	Page 147 MR. MARTIN: A. Yes, certainly. Q. I'd appreciate if we could have an undertaking to have that question answered. (UNDERTAKING)	1 2 3 4	Page 148 trigger that once a certain car, for example, gets X number of kilometres on it, it is then closely scrutinized, I guess, with regard to its maintenance history, any ongoing
1 2 3 4 5	Page 147 MR. MARTIN: A. Yes, certainly. Q. I'd appreciate if we could have an undertaking to have that question answered. (UNDERTAKING) This has always been regarded as a separate	1 2 3 4 5	Page 148 trigger that once a certain car, for example, gets X number of kilometres on it, it is then closely scrutinized, I guess, with regard to its maintenance history, any ongoing operational problems, the condition of the
1 2 3 4 5 6	Page 147 MR. MARTIN: A. Yes, certainly. Q. I'd appreciate if we could have an undertaking to have that question answered. (UNDERTAKING) This has always been regarded as a separate account, if you will, from the vehicles as	1 2 3 4 5 6	Page 148 trigger that once a certain car, for example, gets X number of kilometres on it, it is then closely scrutinized, I guess, with regard to its maintenance history, any ongoing operational problems, the condition of the vehicle and so on. The guidelines, as
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	Page 149		Page 150
1	MR. MARTIN:	1	we'd certainly be using those before we'd be
2	A. No, I think if you'll refer back to my	2	budgeting for new equipment.
3	presentation this morning, we're actually	3	Q. Yes, that makes sense, but perhaps you could
4	looking for, I think a \$60,000 reduction in	4	check that for me and let me know if there are
5	this year's budget in this particular category	5	any new allocations of light duty vehicles
6	as a result of our fleet review.	6	associated with that particular budget item?
7	Q. Yes, I understand. I mean, had the fleet	7	(UNDERTAKING)
8	review not occurred, this might be \$320,000 -	8	GREENE, Q.C.:
9	MR. MARTIN:	9	Q. Excuse me, Mr. Hutchings. The budget item, I
10	A. That's right.	10	guess I'm confused. Are we still talking
11	Q instead of 260.	11	about light duty mobile equipment or are we
12	MR. MARTIN:	12	back to vehicles?
13	A. That's correct.	13	HUTCHINGS, Q.C.:
14	Q. Yes. But I think the question still stands as	14	Q. No, that was light duty mobile equipment we
15	to whether or not any of this 260 represents	15	were talking about.
16	additions to the fleet, you know, putting	16	GREENE, Q.C.:
17	vehicles in places where they weren't before,	17	Q. Okay.
18	as opposed to simply replacing vehicles that	18	CHAIRMAN:
19	are worn out?	19	Q. You're referencing the A-8 project for
20	MR. MARTIN:	20	260,000, right?
21	A. I can't answer that. My intuition is that if	21	HUTCHINGS, Q.C.:
22	we are reducing the fleet of light vehicles	22	O. Yes, that's right.
23	like this, the intention would be that any	23	GREENE, O.C.:
24	vehicles that are eliminated as a result of	24	O. So it's light duty equipment and not light
25	this review, if we needed them somewhere else,	25	duty vehicles, okay.
	Page 151		Page 152
1	Page 151	1	Page 152 interconnection of Rencontre East the Wood
1	Page 151 HUTCHINGS, Q.C.: O Not light duty vehicles no light dutynot	1	Page 152 interconnection of Rencontre East, the Wood Pole Management Study and so on There was
1 2 3	Page 151 HUTCHINGS, Q.C.: Q. Not light duty vehicles, no, light dutynot light vehicles light duty mobile equipment	1 2 3	Page 152 interconnection of Rencontre East, the Wood Pole Management Study and so on. There was obviously no formal report such as that What
1 2 3 4	Page 151 HUTCHINGS, Q.C.: Q. Not light duty vehicles, no, light dutynot light vehicles, light duty mobile equipment. Get all the names proper before we're	1 2 3 4	Page 152 interconnection of Rencontre East, the Wood Pole Management Study and so on. There was obviously no formal report such as that. What happened in this particular instance as I
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1 MR. MARTIN:	1 that, we really need to go through it and
2 kinds of papers in files and so on that go	2 understand the context of what is in that
3 through the details of what was done, how it	3 particular presentation. That does contain
4 was done, the deliberations they went through,	4 the recommendations of the committee.
5 the decisions they've made and the	5 Q.I-
6 recommendations and so on that they would have	6 GREENE, Q.C.:
7 brought and presented to management. I'm sure	7 Q. And again, Mr. Chair, in responding to the
8 that exists.	8 information request, there was no report done.
9 Q. I mean, if we can have a piece of paper with	9 The manager of transportation reports to Ian,
10 these conclusions and recommendations on it,	10 and in this particular case, there would have
11 at least, and some exposition of the thinking	11 been meetings. There were not minutes kept of
12 that went into that, you know, on what	12 these sorts of meetings. We do have, as Mr.
13 principles did Hydro evaluate its requirement	13 Martin indicated, a presentation similar
14 for vehicles in the course of this review? I	somewhat to the Wood Pole where there are
15 mean, you could perhaps tell us that, but I	15 points or bullets that you speak to. You
16 mean, I would have thought there'd have been a	16 cannot get a sense of thefrom looking at
17 piece of paper that would summarize that	17 that alone, so that's why Mr. Martin, in his
18 fairly well.	18 direct evidence, explained the results of the
19 MR. MARTIN:	19 review and he's certainly prepared to answer
20 A. The only thing that comes to my mind that	20 any questions as to how it was done. He
21 might help, and again, we need to be very	21 indicated who did it. He can give you the
careful about how this is used, is there was a	22 principles as to how it was done, but we
23 Powerpoint presentation made to executive	really don't have one piece of paper thatand
24 management on the fleet review, but again, I	24 we often do that when you undertake different
think if we're going to do something like	25 parts of review. We have filed formal reports
Page 155	Page 156
1 where they were done and we're certainly	1 of that paper and see where it takes us.
2 willing to explain how the process was done,	2 Mr. Martin, what specifically was the
3 who did it, and we have provided a witness to	3 direction given to the manager of
4 that. But there's not a piece of paper I can	4 transportation services in respect of the
5 produce that fully explains it.	5 fleet review?
6 CHAIRMAN:	6 MR. MARTIN:
7 Q. No, I think the witness' answer is certainly	7 A. The manager of transportation, as I stated
8 clear enough to the question that's been	8 this morning in my direct testimony, was
9 posed, in terms of whether this exists or not,	9 charged to review Hydro's on-road fleet of
10 Mr. Hutchings.	10 vehicles to ensure that Hydro's vehicle and
11 HUTCHINGS, Q.C.:	11 mobile equipment fleet was the minimum
12 Q. I mean -	12 required. So basically what he was charged to
13 CHAIRMAN:	13 do, in consort with three of this compatriots
14 Q. You may have comments later as to why it	14 who use these vehicles and their staff who use
15 should or shouldn't, but -	15 these vehicles on a regular daily basis, was
16 HUTCHINGS, Q.C.:	16 to go off, look at all the vehicles we had,
17 Q. I'm really just trying to expedite the	17 both on-road and in his mobile fleet, and
18 process. I mean, it seems to me that if we	18 determine where they could minimize or
19 had even the piece of paper with the	19 eliminate or transfer or pool this type of
20 highlighted points of recommendation and so	20 equipment so that we could still meet our
21 on, it would be easier to tackle this whole	21 mandate of providing reliable service to our
122 Issue because, I mean, venicles have been a hit of aticlas point through another have	22 customers, but reducing the fleet to the
25 bit of sticky point through previous hearings.	25 Infinition possible. That was the mandate given
24 SO I mean, we mi guess we in just have to 25 proceed with the questions without the herefit	24 to our manager of transportation.
25 proceed with the questions without the benefit	25 Q. was mere any direction to approach this from

	Page 157		Page 158
	1 HUTCHINGS, Q.C.:	1	larger one was presently in place?
	2 the point of view of zero-based budgeting, to	2	MR. MARTIN:
	3 say what the needs are and then build the	3	A. That had already been done as part of a
	4 fleet from there or was the starting point the	4	previous review, looking at the size of
	5 existing fleet?	5	vehicles. As a matter of fact, as part of
	6 MR. MARTIN:	6	this particular review you're referring to, we
	7 A. I don't think the starting point was the	7	eliminated, I believe it was, 11 cherry
	8 existing fleet, nor would I say we went back	8	pickers and a boom truck as part of the
	9 and went through a zero-based budgeting	9	exercise and replaced them with 12 what we
1	0 exercise. What the managers would have done.	10	call multi-functional pieces of equipment.
	1 the four of them, was look at their current	11	These are material handlers that they can do
	2 operation, look at where they needed specific	12	the twothe job simultaneously of a cherry
	types of vehicles to match the requirements of	13	picker and a boom truck. So there were things
	4 the crews that worked in those areas and so	14	like that where we looked at trying to
	5 on and from that and knowing what we	15	consolidate reduce the number of vehicles and
	6 currently have in the fleet and what we could	16	save costs and dollars wherever we could use
	7 transfer around between areas and so on come	17	• Save costs and donars wherever we could, yes.
	y with what they thought was the most	1/	that taken place?
	appropriate efficient fleet so that we could	10	
	9 appropriate, efficient freet, so that we could	19	MR. MARTIN:
	20 Infantani service. That's the exercise they	20	A. That was just previous to this one, where we
	went through. It certainly wasn't a zero-	21	looked at the size of equipment, cars and so
$ ^2$	based budgeting exercise, no.	22	on, pick ups. As an example, we did reduce
$ ^{2}$	Q. Was there a direction to consider or was there	23	the size of pick ups for our line supervisors
$ ^{2}$	consideration of the ability to downsize	24	and so on from a full-size pick up to awhat
10	15 Vahielae and ilea a smallar vahiela where a	_	1 1 11 1 0
$ ^2$	s venieres and use a smaller venicle where a	25	do they call them now?
$ ^2$	Page 159	25	do they call them now? Page 160
	Page 159 1 MR. HOLDEN:	1	do they call them now? Page 160 this particular process. This was, again, an
	Page 159 1 MR. HOLDEN: 2 A. Half size.	25 1 2	do they call them now? Page 160 this particular process. This was, again, an exercise to look at trying to minimize the
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2	Page 159 1 MR. HOLDEN: 2 A. Half size. 3 MR. MARTIN: 4 A. Half -	25 1 2 3 4	do they call them now? Page 160 this particular process. This was, again, an exercise to look at trying to minimize the number of vehicles. The last time that I know the criteria was reviewed was 1998, and that
	Page 159 1 MR. HOLDEN: 2 A. Half size. 3 MR. MARTIN: 4 A. Half - 5 Q. A compact pick up or whatever, yes.	25 1 2 3 4 5	do they call them now? Page 160 this particular process. This was, again, an exercise to look at trying to minimize the number of vehicles. The last time that I know the criteria was reviewed was 1998, and that was done in consultation with other utilities,
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	Page 161		Page 162
1	MR. MARTIN:	1	A. No, I'm sorry, I don't. I don't keep a daily
2	vehicles out there now that are perhaps over	2	account of Hydro's vehicles.
3	seven years old and not replaced. I'm sure	3	Q. No. Do you know if the number has increased
4	we've replaced vehicles less than five years	4	or decreased since the end of 2003?
5	old because of maintenance costs, conditions	5	MR. MARTIN:
6	or so on. So again, the criteria is just to	6	A. The number would have decreased. We are on
7	act as a trigger for further additional	7	target now that by the end of 2004, the
8	review.	8	vehicle count should be down from 273 to
9	Q. We put a question to you, IC-47, in respect of	9	something around 260. Further decreasing in
10	the historical information about the category	10	2005 as a result of the review to something
11	for numbers of vehicles and locations for the	11	down towards 250, reflecting the decrease of
12	last five years. On page six of six, we have	12	23 vehicles from this morning's direct
13	the 2003 information, and the total Hydro	13	testimony.
14	vehicles shown there is 273. Do I take it	14	Q. Okay. So your testimony this morning was a
15	from that that the 273 represents the total	15	reduction of 23 units of the on-road vehicles,
16	number of vehicles in the Hydro system at the	16	and that is from when to when? When does
17	end of 2003?	17	over what period of time does that reduction
18	MR. MARTIN:	18	occur?
19	A. Yes, that's correct.	19	MR. MARTIN:
20	Q. Okay. And do you know what that number would	20	A. You should see that by the end of 2006.
21	be today?	21	Q. By the end of 2006?
22	MR. MARTIN:	22	MR. MARTIN:
23	A. Today?	23	A. Yes.
24	Q. Yes.	24	Q. And is that the same time frame for the off-
25	MR. MARTIN:	25	road and mobile equipment numbers that you
	Page 163		Page 164
1	Page 163 gave us this morning as well?	1	Page 164 MR. MARTIN:
1 2	Page 163 gave us this morning as well? MR. MARTIN:	1 2	Page 164 MR. MARTIN: A. Well, the review wasn't basically accepted and
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1 2 3 4 5	Page 163 gave us this morning as well? MR. MARTIN: A. It should be in that time frame. Again, I should mention with regards to the heavy equipmentno, I'll say yes, you're right. In	1 2 3 4 5	Page 164 MR. MARTIN: A. Well, the review wasn't basically accepted and approved by management until earlier this year. Q. Yes.
1 2 3 4 5 6	Page 163 gave us this morning as well? MR. MARTIN: A. It should be in that time frame. Again, I should mention with regards to the heavy equipmentno, I'll say yes, you're right. In the same time frame, around the same time	1 2 3 4 5 6	Page 164 MR. MARTIN: A. Well, the review wasn't basically accepted and approved by management until earlier this year. Q. Yes. MR. MARTIN:
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	Page 165		Page 166
1	MR. MARTIN:	1	Q. But if you retire them, then they disappear
2	reassigned or used to replace other vehicles	2	from the total of vehicles anyway. So whether
3	that required replacement.	3	or not it's those particular 14 vehicles,
4	Q. Yes. And equally, there was one vehicle	4	there should be 14 vehicles less in 2003 than
5	assigned to the East Coast Microwave project,	5	in 2002 because the capital projects have gone
6	and that project ended, correct?	6	away.
7	MR. MARTIN:	7	MR. MARTIN:
8	A. Yes.	8	A. Unless, again, they were transferred to
9	Q. And there were six vehicles assigned to the	9	another project or for some other reason that
10	Granite Canal project?	10	came up during that particular period,
11	MR. MARTIN:	11	certainly.
12	A. Yes.	12	Q. Yes, that's a question I had because from
13	Q. And that project ended.	13	2002, on page five, to 2003 on page six,
14	MR. MARTIN:	14	there's an increase of the number of vehicles
15	A. Right.	15	in St. John's from 12 to 21. What gave rise
16	Q. So that's actually a total of 14 vehicles	16	to the requirement for nine 2000 series
17	assigned to capital projects that didn't carry	17	vehicles in St. John's within that time frame?
18	over to 2003, but the reduction is only nine	18	MR. MARTIN:
19	vehicles. So -	19	A. I'm not certain of the answer to that, but I
20	MR. MARTIN:	20	can see where some of those project vehicles
21	A. Well, again, there were no doubt other	21	would have been brought back and pooled in St.
22	vehicles in that category or in those	22	John's for use perhaps on other projects
23	categories that had to be retired and we used	23	around the island that were ongoing. I mean,
24	those vehicles then to replace them rather	24	they just weren't assigned to specific
25	than buy new ones.	25	projects, but there were projects where we
	Page 167		Page 168
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1 2	Page 167 needed inspectors out on distribution lines, transmission lines or other upgrades around	1 2	Page 168 four years? MR. MARTIN:
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	 Page 167 needed inspectors out on distribution lines, transmission lines or other upgrades around the system that these vehicles were pooled in St. John's and assigned to those projects. Q. Looking back historically from the information we have, the most vehicles you ever had in St. John's before this was 14, and that was in 2000. Is there any other explanation as to why there's all these additional vehicles in St. John's in 2003? MR. MARTIN: A. I can't think of anything else. I mean, I'm fairly comfortable in saying that was the reason. Alot of the project vehicles that were assigned to specific large projects, like the Avalon upgrade or the Granite Canal project, when those projects were wound down, the relet in St. John's here for use when our inspectors and so on required a vehicle to go out on a smaller project that wouldn't necessarily require six or seven vehicles, as reported in this table. Q. Was there not already an adequate supply of vehicles in St. John's over the past pravious 	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Page 168 four years? MR. MARTIN: A. I'm sorry, I don't understand your question. Q. Well, from 1999 through to 2002, the St. John's operation has managed to get along with 12 or 11, 12, 13 or 14 of these vehicles. If that pool wasn't adequate, and that would seem to be the implication if they suddenly needed 21 in 2003, why wasn't something done before? MR. MARTIN: A. Again, I can only assume that the projects ongoing at that time, I guess you could assume that on the Avalon upgrade, the pools could have been pooled in St. John's instead of assigned to the project, and they weren't. I think this is just a way of how these tables are put together, and to be quite frank with you - Q. I mean, the Avalon upgrade - MR. MARTIN: A the specifics about the pool requirements in St. John's in 1999, I'm not all that familiar with, to be honest with you. Q. But the Avalon upgrade project was concluded in 2002 correct?

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Page 16	9
1 MR. MARTIN:	1 CHAIRMAN:
2 A. That's correct.	
3 O. The 21 vehicles in St. John's were not there	
4 for the Avalon upgrade project, none of them?	
5 MR. MARTIN:	
6 A. No.	
7 Q. No, okay. If you intend to take a break this	
8 afternoon, this might be a convenient time,	
9 Mr. Chair.	
10 CHAIRMAN:	
11 Q. Very good, Mr. Hutchings. We'll take a 15-	
12 minute break, but before we do break, I want	
to extend an apology to Ms. Greene. When we	
14 started the afternoon session in inquiring	
15 whether we had any preliminary matters, I	
16 addressed the parties as gentlemen. So I do	
17 want to apologize. It was an unintentional	
18 oversight on my part.	
19 GREENE, Q.C.:	
20 Q. After law school and working at Hydro, I'm	
21 used to that type of thing. I didn't even	
22 notice.	
23 (BREAK - 3:11 p.m.)	
24 (RESUME - 3:30 p.m.)	
Page 17	0 Page 171
1 Q. Mr. Hutchings.	1 looking at its maintenance costs over the last
2 HUTCHINGS, Q.C.:	2 couple of years, and through that process,
3 Q. Thank you, Mr. Chairman. Just a couple of	3 make a determination as to whether or not we
4 other questions, Mr. Martin, on the vehicle's	4 should look at replacing it.
5 issue and then I'll pass it over to Mr.	5 Q. But you haven't seen the need or any benefit
6 Coxworthy. In making your further	6 to tracking your maintenance costs by vehicle
7 determination for replacement when you applied	7 category or by individual units generally?
8 the replacement criteria, do you take into	8 MR. MARTIN:
9 account the individual maintenance history of	9 A. Notno, we haven't. We have anticipated a
10 a particular vehicle?	10 pilot project with PHH who provide our credit
II MR. MARTIN:	11 car for fleet vehicles and looking at perhaps
12 A. Yes, we do.	12 a small pilot to do sometning like that, 1
13 Q. Okay, now do you do that when, as you ve told	13 understand that it is fairly expensive to be
14 us, you don't track the costs of maintenance	14 able to get into men data bases and extract
15 even by category, let alone the individual	15 uns mormation, out it may be something that
	10 we in look at in the future.
17 MR. MARTIN.	17 Q. Fou do most of your venicle maintenance
19 is not automatically corrected in the report	19 MR MARTIN
20 form for reach individual vehicle on a monthly	$20 A No we do_{-normally on-road vehicles we$
21 or annual basis But when a vehicle does come	21 maintain inhouse they're all maintained
22 up and meets one of these criterias and	22 externally.
23 triggers its further review. if you will, we	23 O. In each year we usually see two projects for
24 can go into our systems and manually extract	the replacement of vehicles. one of which I
25 the information for that particular vehicle.	25 think usually arises out of the fact that

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	Page 172		Page 173
1	there's generally a carry over from one year	1	MR. MARTIN:
2	to the next in the sense that this year, for	2	A. That's correct.
3	instance, we have a replaced vehicles 2004	3	O. Okay, I don't know if you have it available to
4	project and a replace vehicles 2005 project.	4	you, but last year's project at page B-83.
5	and the 2004 project is basically for the 2005	5	showed materials supply in 2005 for the same
6	money that's left over from vehicles that were	6	item of 912 000?
	ordered in 2004 is that basically the		MR MARTIN
	situation?		A No I don't have that available. I'm just
	SILUATOR:		referring new to Section E for a moment if I
9	MR. MARTIN.	9	acyld places
10	A. That's generally the way it works, yes.	10	• Could please.
	Q. res, okay. Now, I notice in B-147, the		Q. Tes, you could probably find it there as well.
12	replace venicles 2004, there has been a	12	CHAIRMAN:
13	reduction in the amount to be spent in 2005 in	13	Q. I just lost you, Mr. Hutchings. You said the
14	respect of those vehicles, looking back to	14	same item was 912,000?
15	last year's capital budget it was anticipated	15	HUTCHINGS, Q.C.:
16	that there'd be 912,000 and that's now down to	16	Q. The 912 is the number that came out of the
17	300,000. I take it that it arises from the	17	2004 capital budget in respect of expenditures
18	fact that some vehicles are not being	18	expected to be made in 2005, okay?
19	replaced?	19	CHAIRMAN:
20	MR. MARTIN:	20	Q. Okay.
21	A. Could you give me that reference where you're	21	HUTCHINGS, Q.C.:
22	finding all of those numbers please?	22	Q. And -
23	Q. Okay, on B-147, materials supply for 2005 is	23	GREENE, Q.C.:
24	300,000?	24	Q. Mr. O'Rielly has the ability to bring that up
		25	on the screen, which he is doing now.
	Page 174		Page 175
1	HUTCHINGS, Q.C.:	1	2005 capital budget as a result of our fleet
2	O. Okay, it is there.	2	review.
3	GREENE. O.C.:	3	O. Okay, so thethere were \$500,000 worth of
4	O. To see what was said last year.	4	vehicles that were planned to be purchased
5	HUTCHINGS OC:	5	under the 2004 capital budget item and paid
6	O It's page B-83 from last year. There we are	6	for in 2005 that have disappeared from the
	2005 912 000		system is that right?
	2005, 912,000.		MD MADTIN.
	A Okay And your question again is?	0	MR. MARTIN.
9	A. Okay. And your question again is?	9	A. In total, yes, that's right. That was what I
10	Q. what caused the reduction? I mean, it looks	10	entered into direct testimony this morning.
	as through now we re only going to be spending	11	Q. So the ones that were planned to be bought and
12	300,000 in 2005 in respect of what we can call	12	paid for in 2004, those are basically all
13	2004 vehicles? Is there an explanation for	13	going ahead as planned, the million and
14	why that's down from the 912 we expected last	14	eighty-one?
15	year to be spending this year?	15	MR. MARTIN:
16	MR. MARTIN:	16	A. That's what we are forecasting on page F-7 of
17	A. See, if I'm not mistaken, if I'm reading this	17	Section F of the Application, yes.
18	correctly, it's because we are going to be	18	Q. Right, okay. And can you explain for me why
19	spending more dollarsthe total expenditures	19	in respect of this year's project, as B-147,
20	expected in 2004 is a million and eighty-one	20	you have material supply in 2005 as 300,000
21	thousand, same as what's shown on your screen.	21	and the contingency of 140,000? That's close
22	Q. Right.	22	to a fifty percent contingency.
23	MR. MARTIN:	23	MR. MARTIN:
24	A. Right. Yes, that is reflective of the	24	A. I can only suggest to you again that that is a
25	\$500,000 that we said would be saved in the	25	contingency based upon the full budget, if you

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	Page 176		Page 177
1	will, for both years, 2004 and 2005. We	1	MR. HOLDEN:
2	typically look at a ten percent contingency,	2	A. I think that \$140,000 there in the column on
3	which is this particular case would be	3	page 147 in the 2005 year, that 140 there is
4	140,000. There may be a requirement to buy	4	the accumulated contingency on the whole
5	additional vehicles this year that we have not	5	project cost of fifteen thirty-one.
6	foreseen yet. But right now our forecast is	6	MR. MARTIN:
7	based upon the thousand and eighty-one,	7	A. Right.
8	expected total to the end of the year.	8	MR. HOLDEN:
9	O. But in your 2005 project, you already got a	9	A. And following what happened here is that we
10	96.6 thousand dollar contingency in respect of	10	estimated these vehicles on a two-vear cash
11	2005 vehicles, so that would be a total	11	flow and the way the interest is calculated
12	contingency of close to \$240,000?	12	and tallied up, it's tallied up in the second
13	MR. MARTIN:	13	vear of the cash flow sheet, so it shows up in
14	A Again, that 96that is not 96,000, first of	14	the second year here, but it's really, the
15	all in contingency that is the total for	15	contingency and the escalation and IDC
16	overheads and so on escalation	16	(phonetic) and everything on the whole fifteen
17	O Okay the contingency is 77 000 yeah	17	thirty-one is that correct?
18	MR MARTIN.	18	MR MARTIN.
19	A But again it would be 87 000 roughly ten	19	A That's correct
$ _{20}^{17}$	nercent of that particular budget number	20	O Okay if we look at page B-148 the table
$ _{21}^{20}$	MR HOLDEN.	20	there in the middle of the page shows that the
$ _{22}^{21}$	A If I might attempt a clarification	21	140 is in fact all contingency so it doesn't
22	MR MARTIN	22	deal with overheads or allowance for funds
$ _{24}^{23}$	A If you could by all means	23	used during construction or any of those
27	A. If you could, by all means.	27 25	items but if I understand correctly from
\vdash		25	
\vdash	Page 178	1	Page 179
1	Page 178 Section F, the 2004 amount of a million	1	Page 179 that reads, "Category 1000 and 2000 vehicles
1 2	Page 178 Section F, the 2004 amount of a million eighty-one is expected to come in right on budget?	1 2 2	Page 179 that reads, "Category 1000 and 2000 vehicles being replaced will have an average age of 7 wars and 165 000 kilometers estagory 2000
1 2 3	Page 178 Section F, the 2004 amount of a million eighty-one is expected to come in right on budget?	1 2 3	Page 179 that reads, "Category 1000 and 2000 vehicles being replaced will have an average age of 7 years and 165,000 kilometers; category 3000 will have an average age of 7 wars and 220
1 2 3 4	Page 178 Section F, the 2004 amount of a million eighty-one is expected to come in right on budget? MR. MARTIN:	1 2 3 4	Page 179 that reads, "Category 1000 and 2000 vehicles being replaced will have an average age of 7 years and 165,000 kilometers; category 3000 will have an average age of 7 years and 220 kilometers; and 220
1 2 3 4 5	Page 178 Section F, the 2004 amount of a million eighty-one is expected to come in right on budget? MR. MARTIN: A. That is our forecast right now, as we speak,	1 2 3 4 5	Page 179 that reads, "Category 1000 and 2000 vehicles being replaced will have an average age of 7 years and 165,000 kilometers; category 3000 will have an average age of 7 years and 220 kilometers; and category 4000 will have an
1 2 3 4 5 6	Page 178 Section F, the 2004 amount of a million eighty-one is expected to come in right on budget? MR. MARTIN: A. That is our forecast right now, as we speak, yes.	1 2 3 4 5 6	Page 179 that reads, "Category 1000 and 2000 vehicles being replaced will have an average age of 7 years and 165,000 kilometers; category 3000 will have an average age of 7 years and 220 kilometers; and category 4000 will have an average age of 10 years and 200, 000 kilometers " If we go hack now to mage P 147
1 2 3 4 5 6 7	Page 178 Section F, the 2004 amount of a million eighty-one is expected to come in right on budget? MR. MARTIN: A. That is our forecast right now, as we speak, yes. Q. Yes, okay, so all we need to deal with in 2005 is a contingenery in respect of this additional	1 2 3 4 5 6 7	Page 179 that reads, "Category 1000 and 2000 vehicles being replaced will have an average age of 7 years and 165,000 kilometers; category 3000 will have an average age of 7 years and 220 kilometers; and category 4000 will have an average age of 10 years and 200, 000 kilometers." If we go back now to page B- 147 of this wear's menaged these are the same
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	Page 180		Page 181
1	A. Sorry, B-83. Could you go to the top of the	1	GREENE, Q.C.:
2	page? Mr. O'Rielly, could you take us to the	2	and 11 medium and heavy-duty trucks, which
3	bottom of the page? To be quite frank, the	3	were going to take place over 2004 and 5. So
4	answer to that is not obvious to me.	4	the information at the bottom of the page
5	Q. Well, perhaps I'll leave that with you and if	5	would have been for the two-year period for
6	you have an explanation, you can provide it to	6	the replacement of the total number of
7	us. (UNDERTAKING) Those are all the questions	7	vehicles. When you go to page B-146, they're
8	that I have, Mr. Chair. Mr. Coxworthy has	8	only talking about the vehicles for 2004 that
9	some questions on other projects here.	9	are going to be done, so it would be a
10	CHAIRMAN:	10	different two-year period. So the vehicles
11	Q. Thank you, Mr. Hutchings. Mr. Coxworthy?	11	are actually different in the two different
12	MR. COXWORTHY:	12	sheets because it's a different time frame.
13	Q. Thank you, Mr. Chair.	13	But we will confirm that, but I'm pretty sure
14	GREENE, Q.C.:	14	that's the answer, there's a natural different
15	Q. Mr. Chair, I was just going to say when you're	15	periods of cars over the different time frames
16	sitting back here, if you go back to B-83, I	16	involved.
17	can, the question is obvious and we can fire	17	CHAIRMAN:
18	out an undertaking or I can answer it now,	18	Q. All right then, thank you. But there's going
19	it's obvious from the page.	19	to be the undertaking to provide -
20	CHAIRMAN:	20	GREENE, Q.C.:
21	Q. Okay, well perhaps we'll just run back for a	21	Q. We will still confirm this.
22	minute and you can address that, Ms. Greene.	22	CHAIRMAN:
23	GREENE, Q.C.:	23	Q a formal response. Thank you. Mr.
24	Q. If you go to the top of the page, you'll see	24	Coxworthy?
		25	$(2, 45, \dots, \infty)$
25	there are requirements for 33 light vehicles	25	(3:45 p.m.)
25	Page 182	25	(3:45 p.m.) Page 183
25	Page 182 MR. COXWORTHY:	1	(3:45 p.m.) Page 183 pole lines now, we basically inspect, instead
25 1 2	Page 182 MR. COXWORTHY: Q. Thank you, Mr. Chair. Good afternoon, Mr.	1 23	(3:45 p.m.) Page 183 pole lines now, we basically inspect, instead of every five years, every ten years. And we
25 1 2 3	Page 182 MR. COXWORTHY: Q. Thank you, Mr. Chair. Good afternoon, Mr. Martin, Mr. Holden. I wanted to turn back to	1 23 1 2 3	(3:45 p.m.) Page 183 pole lines now, we basically inspect, instead of every five years, every ten years. And we have againthis particular program we're
25 1 2 3 4	Page 182 MR. COXWORTHY: Q. Thank you, Mr. Chair. Good afternoon, Mr. Martin, Mr. Holden. I wanted to turn back to a project, B-28, the Wood Pole Replacement	1 23 3 4	(3:45 p.m.) Page 183 pole lines now, we basically inspect, instead of every five years, every ten years. And we have againthis particular program we're proposing falls in line with that RCN
25 1 2 3 4 5	Page 182 MR. COXWORTHY: Q. Thank you, Mr. Chair. Good afternoon, Mr. Martin, Mr. Holden. I wanted to turn back to a project, B-28, the Wood Pole Replacement Management Program from this morning. And I	1 2 3 4 5	Page 183 pole lines now, we basically inspect, instead of every five years, every ten years. And we have againthis particular program we're proposing falls in line with that RCN philosophy and our new maintenance practice
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	Page 184		Page 185
1	preservative retention, that's currently being	1	MR. MARTIN:
2	done for all of the poles?	2	years, but generally, you're correct.
3	MR. MARTIN:	3	Q. Under the current practice, obviously if a
4	A. It's currently being done for the poles that	4	poleI presume obviously if a pole is
5	we've inspected this year, yes.	5	discovered that it does have a sufficiently
6	O. And the poles that you've inspected this year,	6	serious defect, a replacement is effected?
7	if it's not based on twenty percent of each	7	MR. MARTIN:
8	and every line, how do you determine what you	8	A. If it's serious? Yes, it's what we would call
9	inspect in any given year. under the current	9	a danger pole and it is replaced immediately.
10	practice?	10	O So in terms of what's being done now as
11	MR MARTIN [.]	11	opposed to what's being proposed what is the
12	A As I mentioned this morning what we're doing	12	significant differences between the current
13	is we're picking the oldest poles that we have	13	practice and what's being proposed as future
11	on the system primarily so we can get the	11/	practice as a capitalized expenditure for this
14	treatment in place before they deteriorate any	14	project?
15	further	15	MD MADTIN.
10	When you say the "oldest poles". I would	10	A Again this particular program as I
$ 1/ _{10}$	Q. when you say the blocst poles, I would understand that on any particular line you can	1/	A. Again, this particular program, as 1 mentioned is in its inferror, we've been doing
18	and that all or containly most of the poles	18	menuoned, is in its infancy, we ve been doing
19	say that all of certainly most of the poles	19	part of it on various parts of the system,
20	are of a certain age because they would	20	again, more than anything, to collect data.
21	correspond with the age that the line was	21	Obviously the first priority is to protect the
22	initially installed?	22	asset itself, but we're doing this now over
23	MR. MARTIN:	23	the last year and again this year to again,
24	A. In most cases that would be true. On some of	24	collect more data and be more comfortable with
25	our lines we have done major rebuilds over the	25	what we're doing. And is what we're proposing
	Page 186		Page 187
1	now to carry forward in the long term. I	1	MR. MARTIN:
2	think your point is why are we now looking to	-	A. I can't say specifically that they wasn't. I
	timit your point is why are we now rooking to	2	The call courses of spectration of the state
3	capitalize this particular venture, where in	2 3	would, in my opinion, it would not have been,
3 4	capitalize this particular venture, where in the past, some of it has been an operating	2 3 4	would, in my opinion, it would not have been, under that program -
3 4 5	capitalize this particular venture, where in the past, some of it has been an operating expense. And the answer to that is and this	2 3 4 5	would, in my opinion, it would not have been, under that program - Q. And based on what, when you say in your
3 4 5 6	capitalize this particular venture, where in the past, some of it has been an operating expense. And the answer to that is and this is why we've brought it before the Board as	2 3 4 5 6	 would, in my opinion, it would not have been, under that program - Q. And based on what, when you say in your opinion, based on -
3 4 5 6 7	capitalize this particular venture, where in the past, some of it has been an operating expense. And the answer to that is and this is why we've brought it before the Board as part of this capital application, is that we	2 3 4 5 6 7	 would, in my opinion, it would not have been, under that program - Q. And based on what, when you say in your opinion, based on - MR. MARTIN:
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1 preservative treatment, as I understand it	1 MR. MARTIN:
2 from the information, the critical period	2 A. That's right.
3 that's been identified is at 20 or 25 years of	3 Q. So then going then back to poles at this time
4 age for that treatment?	4 that are under 20 years of age, what
5 MR. MARTIN:	5 difference is there going to be in terms of
6 A. We would prefer to have caught poles at 20 to	6 the inspection and maintenance practice in
7 25 years of age, yes. And this program allows	7 respect of poles that are under 20 years of
8 up to do that for the poles that are still of	8 age, then was the case when you were doing the
9 that vintage. Obviously the front end of the	9 five-year interval inspections? What
10 program is to try and catch the older poles	10 difference will there be, if any?
11 and get them treated before they deteriorate	11 MR. MARTIN:
12 any further.	12 A. There won't be a whole lot of difference. The
13 Q. So on a go-forward basis, for poles 20, 25	13 way this program is timed and I tried to show
14 years and older, the intention is to apply the	14 the bar charts this morning to show when we
15 preservative to all the poles that are of that	15 were going to get to the, I'll call them the
age or will there be a determination based on	16 newer poles, a lot of the poles out there now
17 core testing as to whether even a 25 year old	17 that are 15, 16, 17 years old, by the time we
pole or a 30 year pole needs an application of	18 get to them in our inspection cycle, they will
19 the preservative treatment?	19 be 2019, 20, 21 and 22 years old and we will
20 MR. MARTIN:	20 be treating them all.
21 A. No, in the presentation this morning, I	21 Q. So that partly leads into my next question
22 mentioned that any poles over 20 years old	22 which is the 4000 poles that are going to be
23 will be treated.	23 inspected in year one of this program, which
24 Q. That's the first time that they're inspected?	24 would be capital budget year 2005, whathow
	25 were those 4000 poles chosen? I know that you
Page 19	Page 191
1 mentioned in the presentation this morning	1 MR. MARTIN:
2 that there seems to have been a criteria of	2 A. If you think that's important, by all means,
3 these have been identified as the poles that	3 and the Board would like it, we certainly
4 needed to be addressed most urgently, but what	4 would.
5 criteria in particular has been applied to	5 CHAIRMAN:
6 determine if those 4000 poles should be the	6 Q. Ms. Greene?
7 first-should be looked at in the first year?	7 GREENE, Q.C.:
8 MR. MARTIN:	8 Q. Certainly if it's helpful we will provide the
9 A. Most particularly their age.	9 lines that are to be done and the ages and
10 Q. And they ve been identified by line, is that	10 clarify that they are all our older lines.
11 correct? Are particular lines being	11 CHAIRMAN:
12 Inspected?	12 Q. Thank you.
13 MR. MARTIN:	13 MR. COXWORTHY:
A. Les, mey would have been identified by mies.	14 Q. An of the older lines, and there are 45
15 Q. Do you know what those times are:	15 transmission miles. With that number in mile,
17 A I can't tell you them of f hand no	10 are you able to give me any fidea of now many
18 O Would you be able to tell me how many lines?	18 30 years of age?
18 Q. Would you be able to tell life how many lifes:	
I 19 MR. MARTIN:	19 MR MARTIN:
19 MR. MARTIN: 20 A. No. I couldn't I mean I could guess but	 19 MR. MARTIN: 20 A. Yes. I thought I made that quite clear in the
 19 MR. MARTIN: 20 A. No, I couldn't. I mean, I could guess, but 21 again, I'd only be guessing. 	 19 MR. MARTIN: 20 A. Yes, I thought I made that quite clear in the 21 presentation this morning. One third of our
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	Page 192		Page 193
1	statistics for lines, obviously. Poles means	1	MR. COXWORTHY:
2	lines?	2	Appendix 2, page 27. There's a table that
3	MR. MARTIN:	3	appears at that page, Table 3.4 that
4	A. Yes, and again, the pie chart this morning,	4	summarizes some of the information from the
5	the two pie charts basically match up with	5	2004I'm sorry, 2000 pole inspection program?
6	each other. The lines and the poles	6	MR. MARTIN:
7	correspond to those fractions.	7	A. That's correct.
8	Q. Looking at your presentation this morning and	8	Q. And if one looks at the lines that were
9	I'm looking at page 16, I do believe it's been	9	inspected at that time, at the top the figure
10	entered in as an exhibit. Ten percent of the	10	thatthe age of the poles for each of those
11	poles are to be cored for preservative	11	lines is indicated there, 29, 31 years, 32
12	retention analysis, will that be all of the	12	years, 27 years, sobut for the last line,
13	poles or only those that are over 20 years of	13	TL234, they were all certainly roughly in the
14	age?	14	same age category, I'd suggest to you. But
15	MR. MARTIN:	15	when one looks at the pattern of rejection and
16	A. They are only the ones that are going to be	16	I am bearing in mind here that different
17	over 20 years of age.	17	numbers of poles were inspected in respect of
18	Q. They are the only ones that will be cored?	18	these lines, but even taking that into
19	MR. MARTIN:	19	account, what we see is I would suggest to you
20	A. Absolutely.	20	a fairly great variance in numbers of poles
21	Q. If I could ask you then to turn to Section G,	21	being rejectednot withstanding the fact that
22	Appendix 2 of the 2005 Capital Budget	22	we're talking about poles that are
23	Submission, and there appears at that page	23	approximately the same age. Saying that, has
24	I'm sorry, at page 27 of that appendix, sorry,	24	there been any consideration given to factors
25	we seem to be in Appendix 1, I think.	25	other than simply age in determining a model
	Page 194		Page 195
1	Page 194 for deciding which poles should be inspected	1	Page 195 accordingly. We're not going to go out and
1 2	Page 194 for deciding which poles should be inspected first?	1 2	Page 195 accordingly. We're not going to go out and fix this thing at day one and carry on
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	Page 196		Page 197
1	with regards to the condition of the poles out	1	MR. MARTIN:
2	there now. Is there a 25 year old line that,	2	initial program, as things develop and data is
3	from their experience, is worse than a 30 year	3	collected, reports come back from the field
4	old line and if so, we should really get to	4	and so on, the program may be adjusted, but
5	that one first. So again, it would be their	5	the impetus right now is to try and get as
6	collective experience on the condition of	6	many of the old poles treated as quickly as we
7	those lines for the field people. The	7	can so we can extend the life of those assets
8	planning people are different. The planning	8	and squeeze every year out of them that we
9	people would not have much knowledge at all of	9	possibly can before they have to be replaced
10	the condition of those poles and those	10	at significant capital cost.
11	transmission lines out there. The basis for	11	Q. You gave an example and it may just have been
12	going to them was from a system perspective,	12	an example of perhaps a recommendation coming
13	looking at the overall reliability of the	13	forward that a line that was only 20 or 25
14	system and their feedback would no doubt lead	14	years old might be in worse condition based on
15	us to believe that perhaps some radio lines,	15	historical experience, than one that was 30 or
16	where it's the only line feeding a customer	16	35 years old. Do you know in fact with
17	group, might be considered to be more	17	respect to any of the 4000 poles that are
18	important than saying another line with two	18	being looked at in 2005, whether any of those
19	parallel circuits. So that's the type of	19	would fall into that category of ones that
20	input that we receive from those groups and	20	aren't there based on an age based criteria,
21	then that married up with the age of the	21	but are in that 4000 for some other reason
22	poles, our engineering department and the	22	because other problems had been identified
23	expects in this field, as far as I'm	23	that aren't age based?
24	concerned, made a determination of what the	24	MR. MARTIN:
25	initial program should be. Again, it's the	25	A. No, again, I'm surmising this, but I am
	Page 198		Page 199
1	comfortable in saying that there would not be	1	that most of the damage was attributed to ant
2	any 20 year old pole lines included in the	2	damage and the overall report recommending
3	first year's program. You have to realize	3	this program does identify insect damage and
4	what we're trying to fight here is the	4	damage from fungi as being two of the primary
5	depletion of these preservatives. It takes	5	considerations in terms of what causes damage.
6	years for these preservatives to deplete and	6	Has there been any consideration of whether
7	as I tried to show in the presentation this	7	location of the transmission lines, in terms
8	morning, typically it takes at least 20 years	8	of the terrain or otherwise, being a factor
9	before the depletion level in those poles gets	9	quite apart from age, which renders them more
10	to the point where you're at the threshold and	10	susceptible to that type of decay?
11	now you have to start worrying about things	11	MR. MARTIN:
12	like rot and insect damage and so on. So that	12	A. That is certainly one of the things that has
13	is the overriding criteria in this whole	13	been discussed. For example, if we get into
14	program.	14	an area that's highly susceptible to icing, if
15	Q. Turning back again to the table 3.4 at page	15	you will, where vertical cracks in the pole
16	27, Appendix 2, and I'd like to focus on two	16	could be filled with water and ice and we get
17	of the lines there, TL224 and TL233. And if	17	what we call shell separation at the outer
18	one, bearing in mind again the different	18	perimeter of the pole, again, those things
19	numbers of poles were inspected in respect of	19	will become more clearer to us as we move
20	each of those, if one then looks at the number	20	forward in the program and get the results of
21	that were rejected, it seems to be a fairly	21	the inspections under our belt. And through
22	dramatic difference between TL233 which	22	the analysis of these inspections and the data
23	actually is a younger line, than TL224 and in	23	we get back from the field, which is, again,
24	the case of TL233, the more seriously affected	24	as I said this morning, catalogued in an
25	line in terms of rejected noles it appears	25	integrated database, those are the types of

	Page 200		Page 201
1	things we're going to be able to look at and	1	MR. MARTIN:
2	analyze from a logical perspective and adjust	2	to be a twenty-year program that we constantly
3	the program as we move forward.	3	test, sample, analyze and on a go-forward
4	Q. But given the number of pole inspections that	4	basis adjust the program as necessary to
5	have been done now and there's not just the	5	ensure that we get the best bang for the buck
6	2000, there's been the 1985, there's been the	6	out of these poles. You keep going back to
7	'98, there's been the 2000 and there has been	7	the age and right now, yes, you're right, the
8	others, isn't there enough sample size to	8	age is the primary criteria. Are we looking
9	extrapolate from that, without having to look	9	at other things that could affect that?
10	at each and every pole to come up with the	10	Absolutely and when we get comfortable through
11	data to make decisions about are there other	11	the analysis that there are other things that
12	factors other than age that we should be	12	should be taken into consideration to adjust
13	considering in prioritizing which transmission	13	the program we will adjust it
14	lines we should be inspecting first?	14	O I certainly don't want to sound flippant but
15	MR MARTIN.	15	it almost sounds as if you're saving that we
16	A Forgive me I thought I just went through	16	need to look at all of the poles to get the
17	that It's more than age. We looked at the	17	data to tell us whether we need to have a
10	knowledge that the line neople in the field	10	program to inspect all the poles as opposed
10	had gethered over the years we've used that	10	to having a more selective or targeted
19	in looking at the determination of the	19	approach which looking at the date you already
20	in looking at the determination of the	20	approach which looking at the data you already
21	priority level, we taked to our planning	21	nave would indicate to you that, look, no, on
22	testing and we've done some analysis we	22	a cost-effective basis we can focus on lines
23	testing and we ve done some analysis, we	23	that are a certain age or on certain locations
24	naven t done anywhere hear enough. That's the	24	where we know they re susceptible to fungi,
25	intent of this program. This program is going	25	rot or insects. Are you saying that it's
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	Page 202		Page 203
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1 2 3	Page 202 necessary to look at each and every pole to have the data necessary to make that assessment?	1 2 3	Page 203 in the line, how it is loaded and so on as well as the results of the inspection, we may be able to defer replacement of that pole. We
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Page 202 necessary to look at each and every pole to have the data necessary to make that assessment? MR. MARTIN: A. No, no, we're launching on this program primarily because of some information that we've discovered from a program that was carried out in 1985, some limited program that we did in 1998 as a result of the Avalon Upgrade project, and basically the historical data that's out there and the collective knowledge of the utilities with regards to wood poles and we are recommending that we move forward on this project based upon that information. All of these poles are going to be inspected. It's only a matter of how we line them up, priority wise, to inspect them. And again the primary thing in this whole project is not the inspection; it is the treatment. If we are going to be done in two ways. One is effective, early treatment and the second is analysis that says we don't have to replace the poles just because the	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Page 203 in the line, how it is loaded and so on as well as the results of the inspection, we may be able to defer replacement of that pole. We may be able to fix the pole, we may be able to put in other mechanisms such as guying or stub poles or whatever to extend the life. But I don't think we need to get caught up that this is a fixed program now. We've identified all the lines, all the poles and we're going off blindly just doing this. We have a program in mind we intend to launch next year with the approval of the Board obviously and we will report to the Board on an annual with regards to the results of that. And we will adjust the program on a weekly basis, if necessary, depending upon the information that we receive as part of this program. Q. Mr. Chair, if we could move on then to Project B-32 which is the replacement of insulators on the Hind's Lake to Howley Line. With reference to the response to the request for information of the Industrial Customers, IC-70, my understanding from that response is that there's been no failure on this

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	Page 204		Page 205
1	failure of the COB insulators.	1	MR. COXWORTHY:
2	MR. HOLDEN:	2	line as a whole attributable to problems with
3	A. To the COB insulators, yes, that's correct.	3	the COB insulators. Can you quantify for the
4	Q. How likely is a COB failure to cause the line	4	Board, in any way, the risk of a COB insulator
5	to fail in the coming year, two to three	5	cause failure to this line in the coming year
6	years? Has there been any assessment on that?	6	for 2005, given that there hasn't been for the
7	MR. HOLDEN:	7	past four years or at all in the history of
8	A. That's a very difficult question to answer.	8	this line, I guess I would understand the
9	We do know that with our history with COB	9	evidence to be?
10	insulators, the failures are random in nature	10	MR. HOLDEN:
11	and relatively unpredictable. And what we're	11	A. No. we can't quantify it specifically for line
12	trying to do is remove the COB insulators from	12	243 what the probability of a failure will be
13	our system in a stage program working from the	13	We can only say that based on our experience
14	most critical parts of the system out to the	14	with COB insulators and their nature of how
15	least critical It's very difficult to	15	they fail and the inspection results that we
16	identify and predict when a COR insulator will	16	get from the line, so far we know that
17	fail But for TI 243 this is connected to the	17	there's an ever increasing probability that
10	Hind's Lake generation system And in our	18	the COR insulators will fail And as each
10	opinion this is a critical line and is our	10	year goes by that probability gets greater
20	concorn to do this next year	20	Q Loss of an insulator string would result in
20	O According to the operating experience section	20	Q. Loss of all insulator string would result in flashover this is in IC 70. I think put
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	Q. According to the operating experience section	21	forward as a scenario where COD insulator
$\begin{vmatrix} 22\\ 22 \end{vmatrix}$	the last four users which have detected	22	follower as a scenario where COB insulator
23	the last four years which have detected	23	that correct? It's the last contained in IC
24	problems with the COB insulators and there's	24	that correct? It's the fast sentence in IC-
25	been no failure within that time period of the	25	70.
	Page 206		Page 207
1	MR. HOLDEN:	1	interconnected disk, everybody understands
2	A. The loss of an insulator string would result	2	that. And what happens is that if you got a
3	in a flashover, yes, that's correct.	3	loss of a whole string, you get a loss of so
4	Q. And that is the scenario where the COB	4	many disks, a certain number of disks in the
5	insulator failure could cause failure to the	5	string that would cause the line to flashover
6	entire line?	6	from the conductor to ground. And then that's
7	MR. HOLDEN:	7	what we mean by a loss of an insulator string.
8	A. What would happen there, if we have a	8	And the insulator basically flashed over, the
9	flashover of an insulator, it would be a fault	9	line shorted the ground, fault occurred,
10	on the line and the line would trip and you'd	10	breaker tripped, interrupted the circuit.
11	isolate the Hind's Lake system from the bulk	11	Q. How often, I presume it hadn't happened on
12	electrical system. When you subtract 45 or 75	12	this line at all because there has not been a
13			failure on this line due to COB insulator
14	megawatts from the system, you run the risk of	13	failure on this fine due to cob insulator
1.	megawatts from the system, you run the risk of getting into an unstable situation on the	13 14	failure, but on any other line, where Hydro
15	megawatts from the system, you run the risk of getting into an unstable situation on the system. You invoke our under-frequency load	13 14 15	failure, but on any other line, where Hydro has had experience with the COB insulators,
15 16	megawatts from the system, you run the risk of getting into an unstable situation on the system. You invoke our under-frequency load setting scheme and very likely will result in	 13 14 15 16 	failure, but on any other line, where Hydro has had experience with the COB insulators, how often has this sort of occurrence
15 16 17	megawatts from the system, you run the risk of getting into an unstable situation on the system. You invoke our under-frequency load setting scheme and very likely will result in the loss of service to the customers. So,	 13 14 15 16 17 	failure, but on any other line, where Hydro has had experience with the COB insulators, how often has this sort of occurrence manifested itself, loss of an insulator string
15 16 17 18	megawatts from the system, you run the risk of getting into an unstable situation on the system. You invoke our under-frequency load setting scheme and very likely will result in the loss of service to the customers. So, it's a stability issue when you're talking	 13 14 15 16 17 18 	failure, but on any other line, where Hydro has had experience with the COB insulators, how often has this sort of occurrence manifested itself, loss of an insulator string causing flashover? Has it ever occurred?
15 16 17 18 19	megawatts from the system, you run the risk of getting into an unstable situation on the system. You invoke our under-frequency load setting scheme and very likely will result in the loss of service to the customers. So, it's a stability issue when you're talking about TL243.	 13 14 15 16 17 18 19 	failure, but on any other line, where Hydro has had experience with the COB insulators, how often has this sort of occurrence manifested itself, loss of an insulator string causing flashover? Has it ever occurred? MR. HOLDEN:
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1 insulators, yes. 1 MR. HOLDEN: 2 Q. Was it attributable to Coin sulator failure, 3 A. Flashovers could be attributed to any number 4 MR. HOLDEN: 3 (4.15 p.m.). 4 MR. HOLDEN: 4 O. Your knowledge, you don't know. 5 A Flashovers could be attributed to any number 6 A. I can't answer that question. 6 of things. It could be attributed to any number 6 A. I can't answer that question. 7 Inshovers could also be attributed to any number of other hazards that 9 information that the Board may not be aware 10 cause the insulator to flashover, 10 of. These particular insulators manufactured 11 and actual physical flaitor of the string, 11 throughout electric utilities at least 13 hunters shooting insulators ofil. There's any 13 throughout North America and maybe beyod. 15 flashover in this case here, we're talking 15 This problem has been known and identified for 16 about the unreliability of the particular 16 a number of years now and Hydro, along with 17 ins		Page 208		Page 209
 Q. Was it attributable to COB insulator failure, the flashover? A. Flashovers ould be attributed to any number of things. It could be attributed to flashover or failure of a COB insulator or it could also be attributed to saft contamination could also be attributed to saft contamination or any one of a number of other hazards that could also be attributed to saft contamination and actual physical failure of the string, incurving the unreliability of the particular hunters shooting insulators off. There's any and actual physical failure of the string, insulators manufactured canadian Ohio Brass, that's what we're talking about here. any occasion on any Hydro line where there's of the cOB insulators? O. To your knowledge, Mr. Holden, has there been any occasion on any Hydro line where there's of the COB insulators? bashover which was attributable to failure of the coDB insulators? bashover which was attributable to failure of the coDB insulators? park and we'v scen fail mechanically. So, you could here there in line where there's and the conductor separates for the insulators. that's what we're talking the park with we'ng talking store there insulators? been a loss of an insulator string realing a number of pass new and Hydro. Incurve there's are two issues with regrafs to the insulators. the cod bias of an insulator string realing are two issues with regrafs to the insulators. the cod of 2008. I just hope that adds some a question of the urgency with which hay ano the sor much a question of the where they also you with, find of interest. throughout where the where replaced. the replaced. Think that's not the issue. It's a question of the urgency with which hay any othe sor much a question of the where they should be isself or our inspective more gram, we in	1	insulators, yes.	1	MR. HOLDEN:
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111	1	have failed and we've seen fail mechanically	1	the end of 2008 Liust hope that adds some
2310<		So you could theoretically and we've seen it	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	additional information Mr Coxworthy that
4and the conductor separates for the insulator4and the conductor separates for the insulator404and the conductor separates for the insulator40Thank you, Mr. Martin. I guess it may not be5itself. These insulators now, we have about5so much a question of whether they should be630,000 of them left on our system, we intend6replaced. I think that's not the issue. It's7to replace every single one of them. They7a question of the urgency with which they need8have to be replaced; they will all eventually8to be replaced. This has been a program over9fail. They are known throughout the industry9a period of years as you, yourself, have10to be a problem. We have been replacing these10pointed out. And the question that I'm asking11through our capital program for a number of11both yourself, Mr. Martin, and Mr. Holden, is12years now and we continue to bring these12what risk of failure which has, in Hydro's13forward to the Board. This particular line is13experience, manifested itself in other14connected to a 75 megawatt plant. Last year,14circumstances involving COB insulators which15as part of our structures that we inspected16circumstances involving COB insulators which16percent of our structures that now we19COB insulators in that year, that there's20get rid of these insulators on TL243. Very20going to be a failure. Is there anything in </td <td>3</td> <td>in practice with the insulator actually fails</td> <td>3</td> <td>you might find of interest</td>	3	in practice with the insulator actually fails	3	you might find of interest
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11 <td></td> <td>through our capital program for a number of</td> <td>11</td> <td>both yourself Mr Martin and Mr Holden is</td>		through our capital program for a number of	11	both yourself Mr Martin and Mr Holden is
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17Index function function of the first of the	17	had failed insulator disks. This is a	17	we'd suggest that there is a foreseeable risk
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 21 likely next year for 2006 and beyond, we would 22 be bringing forward more capital budget 23 proposals to replace these industry wide known 24 defective insulators. It is our intention now 25 to have them out of our system completely by 26 going to be a function is differentiation is differentiation. It is differentiation is differentiation is differentiation. It is differentiation. It is differentiation is differentiation. It is differentiation is differentiation. It is differentiation is differentiation. It is dis differentiatio	20	get rid of these insulators on TI 243 Verv	20	going to be a failure Is there anything in
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24 defective insulators. It is our intention now 25 to have them out of our system completely by 26 any prior experience or any prior experience 27 in any other jurisdiction that you're aware	$ _{23}^{-2}$	proposals to replace these industry wide known	$\frac{1}{23}$	vear, that would suggest to you that based on
25 to have them out of our system completely by 25 in any other jurisdiction that you're aware	$ _{24}^{-5}$	defective insulators. It is our intention now	$ _{24}$	any prior experience or any prior experience
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	Page 212		Page 213
1	of, that this is a system on the threshold of	1	MR. COXWORTHY:
2	failure?	2	The provincial legislation that's
3	MR. MARTIN:	3	referred to as, in the project justification
4	Q. I think I can best answer that by saying that	4	as requiring, is this the Occupational Health
5	in the judgment of the expertise and the	5	and Safety Regulations to your knowledge, Mr.
6	operating experience that we have at	6	Holden and Mr. Martin.
7	Newfoundland and Labrador Hydro with regards	7	MR HOLDEN
8	to insulators and insulator failures knowing	8	A Yes to my knowledge that's the Occupational
0	that this is an industry wide problem that's	0	Health and Safety Regulations
10	been affecting other utilities throughout	10	• And my understanding is the Degulations in
10	North America, that all, other utilities have	10	Q. And my understanding is the Regulations in
11	Notur America, una an other utilities have	11	them, that the gat Qada is to be emplied. Is
12	taken steps to replace these deficient	12	there, that the CSA Code is to be applied. Is
13	insulators over time, looking at the failure	13	that your understanding as well?
14	rate of 60 percent of the structures we	14	MR. HOLDEN:
15	inspected last year had defective insulators	15	A. I'm sorry -
16	on them, the fact that this is connected to a	16	Q. That in, basically, what the regulation says,
17	75 megawatt plant that provides base energy to	17	the Occupational Health and Safety Regulation
18	all of our customers including the Industrial	18	says, that in circumstances such as those
19	Customers, knowing that these insulators do	19	described in the project justification which
20	have to be replaced at some time, in our best	20	is an elevated service which is three metres
21	judgment, next year is the year to do it.	21	above the next lower level where workers will
22	Q. Mr. Chair, I'd like to move on then to Project	22	be accessing, that the CSA code with respect
23	B-77, the fall arrest equipment. I'm not sure	23	to fall arrest equipment is to be applied.
24	that we'll finish it this afternoon, but I'm	24	Would you agree?
25	certainly prepared to get it started.	25	MR. HOLDEN:
-	Dage 214	-	Dama 215
	Page 214		Page 215
	A. I don't see where you re reading CSA.		the use of that temporary arrest and restraint
2	Q. No, it's not in your project justification.	2	equipment, in fact, is prohibited under the
3	I'm suggesting it's in the regulation. The	3	provincial legislation for the CSA code in all
4	regulation basically just refers you on to the		the locations that you're looking to install
5		4	the locations that you're looking to histan
6	CSA code.	4 5	new equipment?
	CSA code. MR. HOLDEN:	4 5 6	new equipment? MR. HOLDEN:
7	CSA code. MR. HOLDEN: A. I'm not familiar with the details of the	4 5 6 7	new equipment? MR. HOLDEN: A. No, I don't.
7 8	CSA code. MR. HOLDEN: A. I'm not familiar with the details of the regulation, but if that's what the regulation	4 5 6 7 8	new equipment? MR. HOLDEN: A. No, I don't. Q. Do all 310 locations that are referred to at
7 8 9	CSA code. MR. HOLDEN: A. I'm not familiar with the details of the regulation, but if that's what the regulation says.	4 5 6 7 8 9	new equipment? MR. HOLDEN: A. No, I don't. Q. Do all 310 locations that are referred to at page B-77 as being areas where some level of
7 8 9 10	CSA code. MR. HOLDEN: A. I'm not familiar with the details of the regulation, but if that's what the regulation says. Q. So, when you say you're not familiar with the	4 5 7 8 9 10	new equipment?MR. HOLDEN:A. No, I don't.Q. Do all 310 locations that are referred to at page B-77 as being areas where some level of installation is going to be proceeded with
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	Page 216		Page 217
1	equipment?	1	MR. COXWORTHY:
2	MR. HOLDEN:	2	basis, as you say, you'll be working through
3	A. We don't know that at this stage. What we're	3	the regulations and determining what different
4	doing now is doing the preliminary engineering	4	locations may require to be in compliance with
5	and working our way through the regulations	5	the regulations, can you give us any more
6	and just exactly what the regulations mean.	6	particulars as to how that amount is going to
7	And a good number of these sites will have	7	be expended in 2005? How many locations are
8	permanent installations and more of them will	8	going to have installations, permanent
9	have portable devices that the work crews can	9	installations performed in 2005 to conform
10	take with them and install when they go to	10	with the regulation?
11	work, and the regulations are being worked on.	11	MR. HOLDEN:
12	They're being discussed with the regulator,	12	A. I can't answer that specifically to the exact
13	from the point of view of what's required and	13	number of sites that we would work on in 2005.
14	what will meet the requirement for the	14	Q. Do you know that any will be? Will any
15	regulations, and as we work through them, we	15	permanent installations be installed in 2005?
16	can see in the end a number of sites that will	16	MR. HOLDEN:
17	have permanent installations and a number of	17	A. Oh yes, there certainly will be permanent
18	other places that would be accessed through	18	installations in 2005. There'll be permanent
19	the use of portable equipment and maybe some	19	installations installed and as I said, it will
20	other sites that would have a prescribed plan	20	be worked on with respect to the risks and the
21	that we would impose when we got there. And	21	frequency of access.
22	it depends on the level of risk and the	22	Q. If you're uncertain as to or it's not to your
23	frequency of access.	23	knowledge how many sites are going to have
24	Q. Focusing in on the proposed 2005 capital	24	these locations, then how can we determine
25	expenditure for this project, if on an ongoing	25	that? Is that information available?
	Page 218		Page 219
1	MR. HOLDEN:	1	been provided. And you're not able, in fact,
2	A. That information would be available in the	2	to tell us why that level of expenditure has
3	engineering files as to what sites are	3	to be incurred in respect of each location?
4	determined to be the riskiest ones or the ones	4	Is that correct?
5	with most frequent access. As the engineering	5	MR. MARTIN:
6	people develop the estimates for this	6	A. Again, if I could perhaps jump in here.
7	proposal, they would have had that detailed	7	MR. HOLDEN:
8	information assembled.	8	A. Go ahead.
9	Q. One of the concerns that the Industrial	9	MR. MARTIN:
10	Customers Group have in looking at this	10	A. And I don't mean to try and preempt Mr. Holden
11	program overall, which is over \$900,000 over	11	by any means, but basically what we're asking
12	the life of the program for 310 locations is	12	the Board for this year is approval for the
13	that you're looking an average price per	13	\$206,000 that we would anticipate spending in
14	installation of over \$3,000 and you're looking	14	2005. We know there are enough locations out
15	at a range of costs per location per IC-74,	15	there now within the 310 that will require
16	the response to request for information IC-74	16	some level of fall arrest travel restraint
17	of anywhere from 1,000 to \$5,000, and that	17	system, whether it be a permanent installation
18	range of costs for all 310 locations is one	18	on norizontal or vertical fuel storage tanks,
19	that based on the information that's been	19	une tops of power transformers, if you will,
$ ^{20}_{21}$	provided so far, apart from the fuel tanks	20	and all of our terminal stations that we have
$\begin{vmatrix} 21 \\ 22 \end{vmatrix}$	which we reprepared to accept that that is a	$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	to get up and work on, control buildings and
$\begin{vmatrix} 22 \\ 22 \end{vmatrix}$	special circumstance, but other than that,	$\begin{vmatrix} 22\\ 22 \end{vmatrix}$	what we're seving is and what Mr. Holden was
23	it is unificant to understand with that level of cost has to be availabled on all	23	what we is saying is, and what MI. HOlden Was
24	and level of cost has to be expended on all 310 locations, based on the information that's	24	explaining is that we have looked at these.
1 4.)	o to tocations, pased on the information that s	14.)	THE TAKE AND A DESCRIPTION OF THE AND THE PROPERTY AND A DESCRIPTION OF TH

	Page 220		Page 221
1	involved, the height of the building, the	1	MR. COXWORTHY:
2	frequency of access, and what we would intend	2	certainly be prepared to continue, but thought
3	to do is, as part of this program, throughout	3	I would indicate to the Chair that I did have
4	the remainder of this year and 2005, work on	4	more questions on this project before
5	the details of this, again working on the	5	proceeding.
6	priority sites, spend up to the \$206,000 to	6	GREENE, Q.C.:
7	address those sites that we know we have to	7	Q. Mr. Chair, it might be helpful if the
8	address to be compliant with the legislation,	8	Industrial Customers could indicate how much
9	and then in future years, bring back to the	9	longer they would be with this panel. It
10	Board whatever adjustments we felt were	10	would give us an idea of planning for
11	necessary to the outer years, 2006 and beyond,	11	tomorrow.
12	and what expenditures will be required at that	12	CHAIRMAN:
13	time. We're not asking for approval of the	13	O. Are you able to -
14	one million dollars. The one million dollars	14	MR_COXWORTHY:
15	is an order of magnitude estimate if you	15	O I believe I can do that Mr Chair
16	will put together for future years to address	16	CHAIRMAN.
17	what we think the program might cost us. We	17	0 Sure
18	do know and we are very comfortable that we	18	MR COXWORTHY
10	need to spend at least \$206,000 next year to	10	O I certainly would think we would finish
20	address the priority sites again to be	20	sometime in the morning with this panel and I
$ _{21}^{20}$	compliant with legislation and provide the	20	wouldn't think it would be the whole morning
$\begin{vmatrix} 21\\ 22 \end{vmatrix}$	level of safety required of our employees	21	CHAIDMAN:
22	under that legislation	22	O You're not going to finish yourself you're
23	O Thank you Mr. Chair I do have some follow	23	Q. Four remote going to finish with this papel in the
24	Q. Thank you. Wi. Chail, I do have some follow-	24	not going to misin with this panel in the
1 / 1		1/15	next 10 or 15 minutes?
	up questions. I do note the time. I d	25	next 10 or 15 minutes?
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