October 8, 2004 Mul		ti-Page NL Hydro's 2005 Capital Budget Application		
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1	(9:35 A.M.)	1	Q. I had an exchange of e-mails with Mr. Kennedy	
1	CHAIRMAN:	2	last night. I don't know whether he got my	
3	Q. Good morning. Mr. Kennedy, other than the	3	second one. He did. But I had initially	
4	scheduling for today and the remainder of the	4	indicated to him that we didn't have any	
5	hearing, are there any other preliminary	5	problem at all with the 18th. When I checked	
6	matters that -	6	the itineraries that have been provided to me,	
1	MR. KENNEDY:	7	I discovered that there was no way that I	
8	Q. I don't believe so, Chair.	8	could in fact get here for 9:30 on the morning	
1	CHAIRMAN:	9	of the 18th. I can, however, get a flight on	
10		10	that morning, which will put me here sometime	
1				
11	don't know if, Mr. Kennedy, you've had an	11	after 10:00, and would allow us to proceed say	
12		12	at 11:00 and carry on until we could conclude.	
13	various parties, and that would be October the	13	My suggestion would be though, however, that	
14	• •	14	if that has to be the case, we'd prefer if it	
15	the hearing, and I'm assuming on the 18th that	15	were possible to do submissions in writing,	
16	1 1	16	rather than to try to do them on that day,	
17	any final argument at that particular point as	17	simply by reason of the time constraints, and	
18		18	that would be the suggestion I'd leave with	
19	HUTCHINGS, Q.C.:	19	the Board. I had also mentioned to Mr.	
20	Q. If I might speak to that?	20	Kennedy, because at one stage I think he had	
21	CHAIRMAN:	21	mentioned the possibility of the 25th of	
22	Q. Perhaps I need to ask the Industrial Customers	22	October being available, and that could be a	
23	first, because they'd be finishing up on the	23	day when we could finish the whole thing,	
24	18th.	24	including submissions, if that was more	
25	HUTCHINGS, Q.C.:	25	convenient. But we can certainly accommodate	
	Page 3		Page 4	
1	the completion of the evidence on the 18th, I	1	and that of other parties and try to	
2	think, subject to starting a little bit later	2	reschedule that other commitment.	
3	in the morning than we normally would. And	3	CHAIRMAN:	
4	there's always the risk, I guess, of something	4	Q. Written argument is fine with Hydro, is it?	
5	going wrong with that flight in the morning,	5	GREENE, Q.C.:	
6	but that would be a risk we'd have to	6	Q. With respect to argument, in the past, I	
7	undertake, I guess.	7	guess, for the Capital Budget, we haveand	
8	CHAIRMAN:	8	for the GRA, we have done written and oral,	
9	Q. Ms. Greene, do you have any comment with	9	both. With respect to it, yes, written	
10		10	argument only is acceptable to Hydro. I have	
11	regard to final argument?	11	not spoken to Board counsel or to the other	
1	GREENE, Q.C.:	12	parties about that. One suggestion that I was	
13	Q. On the schedule, the 18th certainly is	13	going to make to them, I'll make now on the	
14		14	record. Based on our experience, what I was	
15	-	15	going to suggest is it might be more useful or	
16		16	practical if we, Hydro, replied to the other	
1			parties' written argument. In the past, for	
17	winiess, are seneunien to be in Ladianoi with	17	parties withen argument. In the past, for	

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17 witness, are scheduled to be in Labrador with 18 people who are travelling from other parts of 19 Canada and the United States on those days. So we would have to rearrange our schedules 20 21 and advise other parties who are travelling 22 from outside of the province. So we would prefer the 18th, with respect to the schedule. 23 Obviously, if there's no alternative but the 24 25 25th, we will have to change our other plans

parties' written argument. In the past, for example, I would file the argument on the Capital Budget, having to deal with each and every project, because I don't know at that time the ones that the Industrial Customers are objecting to. And then I have to file a reply that zeroes in on just the projects that they object to. While there are issues of law, and the only one here being, that I can

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1 GREENE, Q.C.:	as expeditiously as possible.
2 tell at this time, is the rate base issue.	2 With regard to a start time on the 18th,
There really aren't that many issues of law.	3 I'm trying to accommodate you getting in.
4 My suggestion is that Hydro would file a reply	4 You'd be flying in that morning, you
5 once the other parties file their argument,	5 indicated, Mr. Hutchings? Is that correct?
6 without Hydro first filing an argument.	6 HUTCHINGS, Q.C.:
7 CHAIRMAN:	7 Q. Yes, Mr. Chair. I could, with reasonable
8 Q. Mr. Hayes, any comment on these issues?	8 confidence, provided the flight goes at all, I
9 MR. HAYES:	should certainly be able to be here by 11:00.
10 Q. Yes, Mr. Chair. On the scheduling, the 18th	10 CHAIRMAN:
is acceptable to Newfoundland Power, as	11 Q. All right. Well, we'll indicate a start time
discussed. The 25th could present a real	of 11:00 on the 18th and probably with a view
problem for us, as Mr. Alteen will be out of	to initially running until approximately 1:30,
the province and, as I indicated yesterday,	with some form of a break at that particular
there's a very possible likelihood that I may	point in time and trying to finish up on that
be at the maternity ward. So we certainly	particular day in the afternoon. With regard
would prefer the 18th. As for argument,	to the argument portion and order of
written argument is fine with us and we don't	presentation and what have you, we'll take it
have any problem with what's being suggested.	under advisement and we'll deal with that
20 CHAIRMAN:	perhaps a little bit later. With that then, I
21 Q. I think it would be our preference to go with	guess, we're ready for the next panel.
the 18th, as opposed to the 25th. We'd rather	22 GREENE, Q.C.:
do it sooner, as opposed to later, and we	23 Q. Thank you, Mr. Chair. The next area we are
24 think that's in the best interest of the	covering is the Mobile Radio Project, and for
parties. Certainly we want to deal with this	25 that one project, we have a panel so that Mr.
Page 7	Page 8
Page 7  1 Eric Downton and Mr. Gerard Dunphy have joined	
1 Eric Downton and Mr. Gerard Dunphy have joined	1 responsibilities of that position?
1 Eric Downton and Mr. Gerard Dunphy have joined 2 Mr. Haynes on the panel for this particular	1 responsibilities of that position? 2 MR. DOWNTON:
Eric Downton and Mr. Gerard Dunphy have joined Mr. Haynes on the panel for this particular project, and after they're sworn, we will go	1 responsibilities of that position? 2 MR. DOWNTON: 3 A. In my current position, I'm director of
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Eric Downton and Mr. Gerard Dunphy have joined Mr. Haynes on the panel for this particular project, and after they're sworn, we will go through what their positions are, et cetera, with Hydro. CHAIRMAN: Q. Thank you. MR. GERARD DUNPHY (SWORN)	responsibilities of that position?  MR. DOWNTON:  A. In my current position, I'm director of information systems and telecommunications in the production department, and I'm responsible for planning and the operations of the Corporation's information systems and telecommunications facilities.  Q. How long have you been with Hydro, Mr.
1 Eric Downton and Mr. Gerard Dunphy have joined 2 Mr. Haynes on the panel for this particular 3 project, and after they're sworn, we will go 4 through what their positions are, et cetera, 5 with Hydro. 6 CHAIRMAN: 7 Q. Thank you. 8 MR. GERARD DUNPHY (SWORN) 9 CHAIRMAN: 10 Q. State your name for the record, please.	responsibilities of that position?  MR. DOWNTON:  A. In my current position, I'm director of information systems and telecommunications in the production department, and I'm responsible for planning and the operations of the Corporation's information systems and telecommunications facilities.  Q. How long have you been with Hydro, Mr. Downton?
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1 Eric Downton and Mr. Gerard Dunphy have joined 2 Mr. Haynes on the panel for this particular 3 project, and after they're sworn, we will go 4 through what their positions are, et cetera, 5 with Hydro. 6 CHAIRMAN: 7 Q. Thank you. 8 MR. GERARD DUNPHY (SWORN) 9 CHAIRMAN: 10 Q. State your name for the record, please. 11 A. Gerard Dunphy. 12 MR. ERIC DOWNTON (SWORN)	1 responsibilities of that position? 2 MR. DOWNTON: 3 A. In my current position, I'm director of 4 information systems and telecommunications in 5 the production department, and I'm responsible 6 for planning and the operations of the 7 Corporation's information systems and 8 telecommunications facilities. 9 Q. How long have you been with Hydro, Mr. 10 Downton? 11 MR. DOWNTON: 12 A. I've been with Hydro approximately 25 years.
1 Eric Downton and Mr. Gerard Dunphy have joined 2 Mr. Haynes on the panel for this particular 3 project, and after they're sworn, we will go 4 through what their positions are, et cetera, 5 with Hydro. 6 CHAIRMAN: 7 Q. Thank you. 8 MR. GERARD DUNPHY (SWORN) 9 CHAIRMAN: 10 Q. State your name for the record, please. 11 A. Gerard Dunphy. 12 MR. ERIC DOWNTON (SWORN) 13 CHAIRMAN:	1 responsibilities of that position? 2 MR. DOWNTON: 3 A. In my current position, I'm director of 4 information systems and telecommunications in 5 the production department, and I'm responsible 6 for planning and the operations of the 7 Corporation's information systems and 8 telecommunications facilities. 9 Q. How long have you been with Hydro, Mr. 10 Downton? 11 MR. DOWNTON: 12 A. I've been with Hydro approximately 25 years. 13 Q. And during your career at Hydro, what
1 Eric Downton and Mr. Gerard Dunphy have joined 2 Mr. Haynes on the panel for this particular 3 project, and after they're sworn, we will go 4 through what their positions are, et cetera, 5 with Hydro. 6 CHAIRMAN: 7 Q. Thank you. 8 MR. GERARD DUNPHY (SWORN) 9 CHAIRMAN: 10 Q. State your name for the record, please. 11 A. Gerard Dunphy. 12 MR. ERIC DOWNTON (SWORN) 13 CHAIRMAN: 14 Q. State your full name for the record, please.	1 responsibilities of that position? 2 MR. DOWNTON: 3 A. In my current position, I'm director of 4 information systems and telecommunications in 5 the production department, and I'm responsible 6 for planning and the operations of the 7 Corporation's information systems and 8 telecommunications facilities. 9 Q. How long have you been with Hydro, Mr. 10 Downton? 11 MR. DOWNTON: 12 A. I've been with Hydro approximately 25 years. 13 Q. And during your career at Hydro, what 14 positions have you held prior to your current
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1 Eric Downton and Mr. Gerard Dunphy have joined 2 Mr. Haynes on the panel for this particular 3 project, and after they're sworn, we will go 4 through what their positions are, et cetera, 5 with Hydro. 6 CHAIRMAN: 7 Q. Thank you. 8 MR. GERARD DUNPHY (SWORN) 9 CHAIRMAN: 10 Q. State your name for the record, please. 11 A. Gerard Dunphy. 12 MR. ERIC DOWNTON (SWORN) 13 CHAIRMAN: 14 Q. State your full name for the record, please. 15 A. Eric Downton. 16 CHAIRMAN:	1 responsibilities of that position? 2 MR. DOWNTON: 3 A. In my current position, I'm director of 4 information systems and telecommunications in 5 the production department, and I'm responsible 6 for planning and the operations of the 7 Corporation's information systems and 8 telecommunications facilities. 9 Q. How long have you been with Hydro, Mr. 10 Downton? 11 MR. DOWNTON: 12 A. I've been with Hydro approximately 25 years. 13 Q. And during your career at Hydro, what 14 positions have you held prior to your current 15 one? 16 MR. DOWNTON:
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1 Eric Downton and Mr. Gerard Dunphy have joined 2 Mr. Haynes on the panel for this particular 3 project, and after they're sworn, we will go 4 through what their positions are, et cetera, 5 with Hydro. 6 CHAIRMAN: 7 Q. Thank you. 8 MR. GERARD DUNPHY (SWORN) 9 CHAIRMAN: 10 Q. State your name for the record, please. 11 A. Gerard Dunphy. 12 MR. ERIC DOWNTON (SWORN) 13 CHAIRMAN: 14 Q. State your full name for the record, please. 15 A. Eric Downton. 16 CHAIRMAN: 17 Q. And I guess, Mr. Haynes, you're still under 18 oath. 19 MR. HAYNES: 20 A. Yes.	1 responsibilities of that position? 2 MR. DOWNTON: 3 A. In my current position, I'm director of 4 information systems and telecommunications in 5 the production department, and I'm responsible 6 for planning and the operations of the 7 Corporation's information systems and 8 telecommunications facilities. 9 Q. How long have you been with Hydro, Mr. 10 Downton? 11 MR. DOWNTON: 12 A. I've been with Hydro approximately 25 years. 13 Q. And during your career at Hydro, what 14 positions have you held prior to your current 15 one? 16 MR. DOWNTON: 17 A. I've held a number of positions with Hydro in 18 the telecontrol area. I've been electrical 19 plant engineer at the Holyrood generating 20 station. I've held position as project 21 manager for the energy management project, and 22 manager of the energy management systems
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1 GREENE, Q.C.:	engineer. From 2000 to 2002, I held the
2 Hydro?	2 positions of project leader and senior project
3 MR. DUNPHY:	leader. 2002 to 2003, I was manager of the
4 A. My current position is manager of the	4 network services section, and from 2003
5 infrastructure and software support section of	5 present in my current position.
6 the information systems and telecommunication	6 Q. Prior to joining Hydro, you spent some time
7 division.	7 with Aliant? Is that correct?
8 Q. And in that position, which is in what we call	8 MR. DUNPHY:
9 the IS&T area, what are your responsibilities?	9 A. Yes, approximately two years with Aliant,
10 MR. DUNPHY:	Newfoundland Telephone at the time.
11 A. My department is responsible for the operation	11 Q. Mr. Downton, you are a professional engineer?
of all of Hydro's computing and	12 Is that correct?
telecommunications infrastructure.	13 MR. DOWNTON:
14 Q. How long have you been with Hydro?	14 A. Yes, that is correct.
15 MR. DUNPHY:	15 Q. And what is your discipline that you qualified
16 A. I've been with Hydro approximately 13 years.	16 in?
Q. And how long have you been in your current	17 MR. DOWNTON:
18 position?	18 A. My major was in communications and
19 MR. DUNPHY:	19 electronics.
20 A. Approximately one and a half years.	20 Q. Mr. Dunphy, what is your professional
21 Q. Prior to your current position, what positions	21 designation?
did you hold at Hydro?	22 MR. DUNPHY:
23 MR. DUNPHY:	23 A. Professional engineer. My bachelor's degree
24 A. Upon arriving at Hydro in 1991 and until 2000,	24 was specialized in electrical engineering and
25 I held the position of Communications	25 telecommunications option, and my master's
Page	Page 12
degree was in the electrical field as well.	1 MR. DUNPHY:
2 Q. And when did you obtain your master's?	2 A. Yes, I do.
3 MR. DUNPHY:	3 Q. And Mr. Downton, do you?
4 A. 1999.	4 MR. DOWNTON:
<ul><li>4 A. 1999.</li><li>5 Q. The particular project that this panel is</li></ul>	4 MR. DOWNTON: 5 A. Yes, I do.
<ul> <li>4 A. 1999.</li> <li>5 Q. The particular project that this panel is giving evidence about is the VHF Mobile Radio</li> </ul>	<ul> <li>4 MR. DOWNTON:</li> <li>5 A. Yes, I do.</li> <li>6 Q. At this time, I'm going to ask Mr. Dunphy to</li> </ul>
<ul> <li>A. 1999.</li> <li>Q. The particular project that this panel is giving evidence about is the VHF Mobile Radio Project, B-137. Mr. Haynes, Mr. Downton and</li> </ul>	<ul> <li>4 MR. DOWNTON:</li> <li>5 A. Yes, I do.</li> <li>6 Q. At this time, I'm going to ask Mr. Dunphy to</li> <li>7 describe the current VHF system that Hydro</li> </ul>
<ul> <li>A. 1999.</li> <li>Q. The particular project that this panel is giving evidence about is the VHF Mobile Radio Project, B-137. Mr. Haynes, Mr. Downton and Mr. Dunphy, was the project description that's</li> </ul>	<ul> <li>4 MR. DOWNTON:</li> <li>5 A. Yes, I do.</li> <li>6 Q. At this time, I'm going to ask Mr. Dunphy to</li> <li>7 describe the current VHF system that Hydro</li> <li>8 has. A copy of the presentation has been</li> </ul>
<ul> <li>A. 1999.</li> <li>Q. The particular project that this panel is giving evidence about is the VHF Mobile Radio Project, B-137. Mr. Haynes, Mr. Downton and Mr. Dunphy, was the project description that's contained in B-137 prepared under your</li> </ul>	<ul> <li>4 MR. DOWNTON:</li> <li>5 A. Yes, I do.</li> <li>6 Q. At this time, I'm going to ask Mr. Dunphy to</li> <li>7 describe the current VHF system that Hydro</li> <li>8 has. A copy of the presentation has been</li> <li>9 distributed to the Commissioners and to the</li> </ul>
<ul> <li>A. 1999.</li> <li>Q. The particular project that this panel is giving evidence about is the VHF Mobile Radio Project, B-137. Mr. Haynes, Mr. Downton and Mr. Dunphy, was the project description that's contained in B-137 prepared under your direction? First, Mr. Haynes, was it?</li> </ul>	4 MR. DOWNTON: 5 A. Yes, I do. 6 Q. At this time, I'm going to ask Mr. Dunphy to 7 describe the current VHF system that Hydro 8 has. A copy of the presentation has been 9 distributed to the Commissioners and to the 10 other counsel this morning. So Mr. Dunphy,
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1 MR. DUNPHY:

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overview of mobile radio and mobile communications as they relate to Hydro's operations. I'll talk some about Newfoundland and Labrador Hydro's existing mobile radio system and why we need to replace it in 2005, or starting in 2005, I should say. And I'll give you some general information about the proposed replacement for the mobile radio system.

Hydro's field work force is a mobile work force and mobile communications are required for our personnel as they travel to remote workplaces and as they conduct their work in those remote workplaces. Mobile communications is required for primarily voice communications between personnel that are performing switching, maintenance and emergency repair on the system. presentations of Mr. Martin and Mr. Haynes in the past couple of days have given you some indication of the geographic scope of Hydro's operations, and in the course of conducting our work, we require mobile communications to enable us to work efficiently. Many of the

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In mobile communications, the biggest consideration in the design of a system is coverage. How much territory can we reach with a mobile radio? The two major factors that affect coverage are terrain. So radio is essentially a line of sight medium and so hills and valleys and terrain will cause degradation and in some cases, blocking of the mobile radio signal. As well, radio, by it's very nature, has a finite range, and that's really a function of the power at which a radio is capable of transmitting and the frequency at which it transmits, as well as distance. I'll show you a coverage map of our existing system in a little while, that'll help demonstrate what I'm talking about here.

So in this photograph that's--sorry. Thank you, Mr. O'Rielly. In the photograph on slide three you'll see some of our workers working in a remote location and using mobile radio system. The worker on the pole is attaching grounds to the system and the worker on the ground, in the foreground, who has the humourous caption in the photograph that was up when we started, is communicating either

locations that our personnel are required to work in are quite remote and are only accessible by track vehicles or even by air, using helicopters.

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Mobile communications are required from a safety point of view as well. Personnel who are working alone have a requirement to be able to communicate in general, and in the event of emergencies, communications, on-site communications are required in order to ensure that an expeditious response is obtained.

Mobile communications increase productivity because they allow personnel to communicate while at remote locations, when no other means of communications exist. There are different scenarios under which mobile communications are used. A mobile can connect to a fixed location, such as an office. They can also speak mobile to mobile and conversations can be one to one, so they can be between myself and another individual or they can be one to many, and one of the unique features of mobile radio systems is that conversations can be shared between multiple personnel in multiple locations.

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with the energy control centre to obtain permission to work on the line or he could be communicating with another crew in a different area who are working perhaps on the same line, or he could be communicating with a supervisor or an area office.

Moving on to the next slide, I just wanted to talk briefly about the different classes of service in mobile radio systems. First of all, there's the public safety system. Public safety systems are used by the so-called first responders: police, civil defence, fire and rescue. These systems are, in general, extremely rugged, extremely reliable, highly redundant and quite expensive. In fact, I don't think it's an exaggeration to say that they're the most expensive mobile radio technology.

The next grade of service, if you will, is public service, and this is the type of system that would be used, and we have some examples in there of systems in Newfoundland that--or organizations in Newfoundland that use mobile radios: the power utilities, Newfoundland Power and Hydro; forestry

Page 17 1 MR. DUNPHY: operations, Kruger and Abitibi use mobile radio in the course of their woods operations; in the manufacturing sector, North Atlantic Refining, Voisey's Bay Nickel, the Hibernia, the Terra Nova platform, the new Whiterose platform, all use mobile radio in order to communicate effectively. And finally, there's the private class of service for private individuals. 

So in general, power utilities and Hydro specifically rely on effective wireless communications. We use it for switching operations, for troubleshooting operations, for live line work, for emergency repairs and for general maintenance, and when we don't have these systems available, life and property can be endangered and customers will be impacted. Just a couple of examples of work where mobile radio is used. The photo on the bottom left shows the replacement of a cross arm on a steel transmission structure. This is actually work that's being performed hot. It's live line work. You can't see the conductor because it's pulled out of the way

Page 19

case, the mobile radio system is used primarily for safety, to coordinate the work of the person on the pole, the helicopter pilot. So there would be a person on the ground assisting and coordinating this work using the mobile radio system. As well in this case, prior to starting the work, the crew would be required to contact our energy control centre.

Now a little bit about our existing mobile radio system. First of all, in Hydro's operation, the mobile radio is the primary communications link between our field and energy control centre personnel. It reduces outage time by ensuring that instructions and changes are relayed promptly to personnel in the field. It increases our efficiency. Personnel do not have to travel if they need to communicate with someone who's at a remote location. They can do it from the work location. So if situations arise where advice is needed, conditions may change requiring the work to change, personnel don't have to travel to communicate and they can communicate over quite long distances.

Page 18 by a crane. And these crews would use mobile radio in various ways during the course of that operation.

First and foremost, they would contact the energy control centre prior to starting work to make sure that conditions haven't changed, that it's still safe to do the work and they can proceed, in inform energy control centre that they are about to proceed with the work. As well, during the course of that operation, if operating conditions change or weather conditions change, the crew can be informed by the energy control centre that they need to stop the work or restore the structure as quickly as possible. As well, in the event of an emergency, the crew would use mobile radio system, as I say, to contact emergency response for assistance.

Moving to the photo on the bottom right, the gentleman who is perched on the transmission structure there is removing an osprey nest. They're attaching a sling to the nest and the helicopter will lift the osprey nest and move it to--I believe they put it in a tree, in this instance. In this particular

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It's required for safety. Newfoundland and Labrador Hydro is required to provide communications to personnel who are working alone in remote locations. Any crew who's working in a remote location have to have an ability to contact an emergency response organization in the event that there is a problem.

It's also a communication link between work crews and the area offices. So if the crew requires communication with a supervisor who may be in their office or for some reason they may need to talk or they may need to ask for parts from a warehouse, then they can do it again from the field. It's also used as a communication's link between our fleet vehicles so one vehicle can talk to another in the course of their travel, and it's also used, as we know, by the Provincial Department of Transportation & Works for their road maintenance vehicles, and again, we'll talk a little bit more about that later.

The Mobile Radio System that we have was manufactured by a company called ACI, which, out of interest, was a subsidiary of AGT, the

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	Page 21
1	MR. DUNPHY:
2	Albert Crown owned telecommunication service
3	provider, which is now Telus. There has been
4	some service in 1989 and it had an expected
5	design life of ten years at the time. The
6	system consists of a central switch and 29
7	repeaters and the next slide will give you a
8	more visual representation of that. But I
9	just want to talk briefly about the functions
10	of those two components. Are peater is
11	essentially a radio on a mountain top and I
12	did forget to mention earlier in my
13	presentation, this is an example of one of the
14	portable radios that our crews would use in
15	the field. As you can see, it's large, it's
16	rugged, it's designed for field use. It has a
17	huge battery so that it can transmit at quite
18	high power and it can be used for a long time,
19	it can be used in cold weather conditions. So
20	these are designed for extremely rugged
21	conditions and this is the type of device that
22	our crew would use in the field. As well, we
23	have a mobile radio which performs the same
24	functions, but it's mounted in a vehicle. So
25	I was going to use my radio in my presentation
	Paga 22

to demonstrate a repeater. A repeater is simply a radio, a transceiver, a radio that can send and receive located on a mountain top or a hill top, somewhere where it can cover a large service area. As I mentioned earlier, coverage is the number one criterion when designing a mobile radio system. So that radio allows me in my vehicle--or that repeater allows me in my vehicle to communicate with the rest of the system, do all the things that the mobile radio system can do. The central switch is located in Gander and that's really the brains of the operation and all the repeaters connect to that central switch, and its purpose is to connect the calls as they progress between repeaters or from repeaters to the telephone network or to the energy control center. So of the 29 repeaters we have, 25 are currently in Aliant sites and 4 are in Hydro owned sites, and one of the goals of the replacement system is to move as many repeaters as practical to Hydro-owned towers, existing Hydro-owned towers, so that we can cut down on the operating costs of the new system.

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The system provides public telephone network access, so I can use this radio to make a telephone call and vice versa. Somebody can call me from a telephone and it will be received at this radio. It has a system management capability in it and I want to talk a little bit more about this, because this is quite important to us. The existing system has a system management capability which gives us remote monitoring and diagnostics, so one of our maintenance personnel can look at a computer screen and instantly know the condition of all the repeaters on the system, he can tell which ones are in use, which ones are out of service and which ones are available for use. We can also do limited diagnostics on the system and this is used when we, in the course of management of the system. Aliant maintains our system, but Hydro manages it. So this system management is required in order to allow us to do that. It allows us to do remote monitoring, it allows us to do troubleshooting, it allows us to do diagnostics. It gives us traffic information

Page 24 so we know the usage of the system. We know which radios are used in the system and we can tell the amount of usage, so that if changes are needed, we can take some action. It also allows us to permit and deny access to the system by individual radios. So if a radio were to be abused in any way or stolen, we can actually deny it access to the system.

As I said, the switch and repeater equipment are maintained by Aliant and have been since the system was installed. Hydro owns approximately 300 mobile radios and 100 portable radios. The radio in front of me is an example of a portable. We also have base station radios and I always lump those into the mobile radio category, simply because it's the same equipment. It's the same radio, except one is in a vehicle and one is on a desk. And the Department of Transportation and Works owns approximately 350 mobiles.

Turning the page now, this is a schematic representation of our existing mobile radio system. You can see in the center there, in Gander, is the central switch and it's connected via leased facilities which are

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	Page 25		Page 26
1 MR	. DUNPHY:	1	Aliant's facility in Gander. And the switch
2	leased by Aliant to the 29 repeaters located	2	is kind of difficult to see, it's actually the
3	around the Province.	3	rack of equipment that's located between the
4	The next page demonstrates the coverage	4	two racks that have those vertical cans, yes,
5	that we had calculated that the system	5	that's the one, Terry, thank you. That's our
6	provides, and this is done using a computer	6	switch right there. Manufacturer's support
7	based coverage analysis program. I just	7	for that switch is non-existent. We've been
8	wanted to illustrate this because it shows	8	informed that the last system of this type was
9	part of the reason that we are expending the	9	installed in 1991 and the manufacturer ceased
10	system is to help increase coverage and Terry,	10	to make the system at that time. The site
11	if you'll move the curser over towards the	11	controllers and central switch are proprietary
12	Burin Peninsula there in particular, it's one	12	and what that means is that there is no other
13	example of where we intend to put additional	13	system out there, there is no other equipment
14	sites on the system to help increase coverage	14	out there that is compatible with this system.
15	that has been identified as being lacking. If	15	Right now, we have adequate spares to maintain
16	you move the curser up there, Terry, to	16	the central switch and the site controllers.
17	transmission lines 202 and 206, which travel	17	I'll show you a picture of the site controller
18	from Bay D'Espoir to Sunnyside, you can see	18	on the next slide. Repair service is
19	the coverage is quite poor; again, Bay	19	extremely limited because many of the parts
20	d'Espoir to Stoney Brook the coverage is quite	20	are no longer available. We've been unable to
21	poor. These are examples of areas where we'll	21	obtain additional spares since sometime in the
22	provide better on the new system.	22	mid 1990's for this system, when the
23	Turning to the next page, the photograph	23	manufacturer ceased to even support the
24	on the bottom right-hand corner is a	24	sparing program. We can't test our critical
25	photograph of our existing switch located in	25	spares on this system. There are certain
	Page 27		Page 28
1	spare parts that arethere are certain parts	1	that there's limited repair support, no new
2	of the system, I should say, that are critical	2	modules are available. Aserious problem on
3	to its operation and should that part fail,	3	that repeater could mean replacement of the
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spare parts that are--there are certain parts of the system, I should say, that are critical to its operation and should that part fail, the system will come down. We're unable to test the spare parts that we have; there are no facilities that exist to test those spare parts. We have been able to test some of our non-critical spare parts and have seen an extremely high failure rate just because of the age of the parts and the fact that they are sitting on the shelf for so long.

In summary, this system is literally hanging by a thread and we have no confidence that--or we have no idea how long the system is going to last.

Turning to the next page you'll see a picture of one of our repeaters and at the top, the black equipment there is the Motorola repeater radio. The bottom, the silver shelf of equipment there, yes, that's right, Terry, thank you, is the site controller and as I mentioned, a site controller has exactly the same problems that the switch does. The Motorola repeater equipment itself was manufacturer discontinued in 1996, so it means

entire repeater. The mobile and portable radios that we own are manufacturer discontinued. Most of the units are unable to be repaired. In fact, I checked our records and in the past year, we sent 22 of those original mobile and portable radios for repair and 100 percent of them were sent back to us unrepairable; parts are simply unavailable anymore. And the business issues and the concerns that we have regarding the existing mobile radio system is that the current system is physically, functionally and technically obsolete. We say it's physically obsolete because it's subject to random failure with undetermined cause. We are fortunate that we haven't had a spate of failures lately; however, in early 2003 there were a large number of failures. At the time, all the parts that were indicated by the diagnostic system to be possibly at fault were replaced and there was significant time spent in troubleshooting and attempting to isolate the

	· · · · · · · · · · · · · · · · · · ·
	Page 29
1 MR	. DUNPHY:
2	problems that were causing the repeated
3	failures. We were unable toor I should say
4	Aliant was unable to isolate the cause of
5	those problems. After awhile, the problems
6	stopped and went away, but we have no idea
7	when that sort of behaviour will reoccur or in
8	fact if the system does go down at some point,
9	if it will ever come back. We can't expand
10	the existing system because, as I said, parts
11	are unavailable. And all components to the
12	existing system are no longer supported, as I
13	said. Maintenance of the VHF system is by
14	Aliant and that's also an issue right now.
15	There are no trained staff remaining at Aliant
16	who are knowledgeable about the switch and the
17	site controllers. All the staff have either
18	retired or left the company that were
19	originally trained on the system, and because
20	there is no manufacturer support, the training
21	is unavailable. In fact, Aliant will no
22	longer provide us with a maintenance contract
23	that covers our repair services and they do it
24	only on a time and charges basis because they
25	do not have any confidence that they can any
	Page 31

confidence that they can effectively support the system.

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Page 32

In the event of a complete failure of the mobile radio system and I should begin by saying we believe that complete system failure is inevitable and the only question is when. This system is going to fail; we have no doubt about that. It's old, it has shown erratic behaviour in the past. We're absolutely certain that it is going to fail at some point in the future; it may be tomorrow, it may be six months from now and if we're lucky, it will last until we have a chance to replace it, but it will fail. System failure will impede Hydro's ability to do work. It will extend outages to our customers and I talked earlier about some of the reasons why we are-our field personnel are more productive when they have that system.

We have indicated in our submission that this is a two-year project and we do not feel that in the event of a failure--we do not feel that replacement time is acceptable in terms of the service that we can provide to our customers and the safety of our personnel.

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are not suitable for operation.

As part of preparing and as part of compliance with P.U. Order 29 (2003), we were able to do some detailed coverage analysis in preparation for the Request for Information that we had submitted to vendors. So, we've established now that we need 39 sites in order to provide the coverage that the system needs, and I guess just in brief, five of those sites are intended to fill in some of the gaps in the existing coverage that I mentioned earlier on the transmission lines, and five of those sites are used to provide new coverage in areas that have been identified, such as Southern Labrador, Happy Valley-Goose Bay and Granite Canal. I should point out that all the repeaters will be installed at existing towers, either Newfoundland and Labrador's Hydro's or a third party. No new towers are going to be required as part of this process. We feel we can achieve the coverage that we need utilizing existing towers.

Hydro intends to issue a functional specification for this system. And this is to ensure that we achieve the most appropriate

## 1 GREENE, Q.C.:

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Q. Mr. Dunphy, you've just described the mobile radio system generally and then Hydro's current system and why, from Hydro's perspective, it is an unacceptable risk to proceed without planning to replace this system. I wonder now if you could describe how and what Hydro is proposing in this Capital Budget Proposal to address the problem with the replacement?

## 11 MR. DUNPHY:

A. Certainly. Mr. O'Rielly, if you could bring 12 us back to the presentation? Hydro is 13 proposing a complete replacement of the 14 existing system with a new VHF Mobile Radio 15 System. Satellite and cell phone technologies 16 are not suitable for our long-term mobile 17 communication's needs and I think we've 18 19 provided sufficient justification in the past In summary, cellular to explain that. 20 21 telephones don't provide sufficient coverage; satellite telephones don't work very well in 22 trees, the technologies themselves are not 23 available in emergency conditions--there are 24 25 any number of reasons why those technologies

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Octob	er 8, 2004 Mult	i-P	Page NL Hydro's 2005 Capital Budget Application
	Page 33		Page 34
1 MR.	DUNPHY:	1	are identified. It also will support
2	solution that meets Hydro's needs at the least	2	Newfoundland Power's requirements when and if
3	cost to our customers. The final technology	3	it's required by them, and I think you've seen
4	is not determined at this point and it's	4	in the information that has been submitted
5	really not appropriate to establish a final	5	when the Request for Information was supplied
6	technology solution at this point. A	6	to vendors earlier this year, Newfoundland
7	functional specification encourages	7	Power's requirements at the time were included
8	competitive bidding among vendors and it	8	in that. In summary, it will enable Hydro to
9	ensures that we'll get what is most	9	operate in a manner that is efficient and in
10	appropriate at the least cost. Functional	10	the best interest of our customers and it's
11	specification is commonly used in this type of	11	the least cost option for Hydro's customers.
12	scenario in industry. We have issued	12	2 I'd also like to talk a little bit about
13	functional specifications for our Energy	13	the participation of the Provincial Department
14	Management System, our microwave radio, our	14	of Transportation and Works. We're proposing
15	telephone systems, the original VHF Mobile	15	that there will be a shared cost agreement
16	Radio System was written around the functional	16	between Hydro and the department. And the
17	specification. This is the most appropriate	17	intention is to share capital and operating
18	course of action to take at this time.	18	costs. If the department identifies coverage
19	So a proposed VHF Mobile Radio System	19	requirements that are over and above Hydro's,
20	will address the functional requirements of	20	they would be solely borne by the department,
21	our field personnel. Our field personnel need	21	and essentially any cost recovery from the
22	a system that is reliable, it's easy to use,	22	department will result in a reduction of
23	it's not complicated and it's rugged. We	23	Hydro's revenue requirements and thereby
24	intend to ensure that the radio coverage will	24	benefit our customers. I should also
25	be expandable if there are future needs that	25	summarize, I guess, our progress to this
	Page 35		Page 36
1	point. We're in fairly close consultation	1	allowed to run to failure. Thank you very
2	with the officials of the department. They	2	2 much, that concludes my presentation.
3	have prepared a submission to Cabinet which is	3	3 GREENE, Q.C.:
4	seeking approval for participation in the	4	Q. You've already mentioned, Mr. Dunphy, that
5	system and it's currently under review at the	5	last year in the Order arising from the 2004
6	deputy minister level within the department.	6	Capital Budget hearing, the Board outlined
7	We've consulted continuously with the	7	what I had referred to as a consultative
8	department throughout this process and they	8	process be undertaken with Newfoundland Power.
9	are well aware of our progress to date. And	9	<b>v</b> 1
10	the department has communicated to us that	10	Hydro did to respond to that Order?

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this is the only viable alternative that meets their needs for mobile communications.

I'd just like to summarize the most important points of my presentation. All the components of the existing system are manufacturer discontinued and spare parts are no longer available for this system. We believe a complete replacement of the existing infrastructure is the only option. We intend to issue tenders to ensure competitive bidding, to ensure that we get the most appropriate solution for our needs and our customer needs at the lowest price. And finally, I cannot stress enough this system is

11 MR. DUNPHY: 12 A. Yes. We received the Order in September 2003. 13

We started our consultation process formally with Newfoundland Power in October, and I believe there was full co-operation on both parties exhibited in that process. Hydro engaged a consultant, Custom Systems Electronics Limited, to act as our consultant and to provide us with expert advice as we went through the process. And Newfoundland Power engaged Provincial Consultants to do the same for them. During the course of the analysis and discussions, we met periodically, both officials of Newfoundland and Labrador Hydro and Newfoundland Power, as well as the

critical to our operations and cannot be

	P 20
Page 37	Page 38
1 MR. DUNPHY:	you please advise the Board who that company
2 consultants independently when required, to	a little bit about the company and why they
3 review our progress, to answer outstanding	3 were chosen?
4 questions and to decide on anything that the	4 MR. DUNPHY:
5 consultants wanted confirmed from the business	5 A. Custom Systems Electronics is a Newfoundland
6 point of view. We exchanged our requirement	6 based consulting organization with extensive
7 documents as ordered in P.U. 29 in early 2004	7 experience in design analysis of mobile radio
8 and at that time, we chose to issue a Request	8 systems. Custom Systems were used by the Nova
9 for Information to vendors to determine	9 Scotia Government in analysis of the province-
whether there was a solution out there that	wide mobile radio system that was installed
would meet our needs and at what cost in order	there in late '90s or early in this century,
to assist us in developing the Capital Budget	12 I'm not exactly sure when. They've been
submission for this year. The proposals were	13 consultants as well to the Provincial
analyzed, our consultant, in consultation with	14 Government on the RCMP and RNC systems. They
15 Hydro personnel, prepared detailed capital and	15 have extensive experience in the design of
operating estimates. These were sent to the	16 mobile radio systems.
Department of Transportation & Works and	17 Q. And you also mention that Hydro did a Request
Newfoundland Power in July, I believe. Both	for Information to potential suppliers of this
parties completed net present value analysis	19 system. Did that Request for Information
of the costs submitted and we prepared and	20 include the functional requirements of
submitted our final report, which is contained	Newfoundland Power as provided to Hydro by
in Section G, Tab 4 of the Capital Budget	Newfoundland Power?
23 Proposal.	23 MR. DUNPHY:
Q. Mr. Dunphy, you mentioned Hydro's consultant	24 A. Yes, it did.
25 was Custom Systems Electronics Limited. Could	25 Q. And how many suppliers was the Request for
Page 39	Page 40
Page 39 1 Information sent to?	Page 40 proposed mobile radio system. Alternative
1 Information sent to? 2 MR. DUNPHY: 3 A. The Request for Information was actually sent	proposed mobile radio system. Alternative three was to accommodate Newfoundland and Labrador Hydro on an expanded Newfoundland
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2	ctoper 8, 2004 Niutu	1-17	age NL Hydro's 2005 Capital Budget Application
	Page 41		Page 42
1	MR. DUNPHY:	1	
2	2008. Other alternatives were shown to be	2	MR. DUNPHY:
3	more expensive than that.	3	A. Yes.
4	Q. Is it correct that it is Hydro's understanding	4	C
5	that Newfoundland Power does not need to	5	to accommodate Newfoundland Power in the
6	replace its current mobile radio system at	6	future at the time that Newfoundland Power
7	this time?	7	needs to replace its system, if it is the
8	MR. DUNPHY:	8	lowest cost option for them at that time, is
9	A. Yes, that's true.	9	that correct?
10	Q. The current proposal before the Board is to	10	MR. DUNPHY:
11	allow Hydro to proceed with the replacement of	11	A. Yes, that's correct.
12	its mobile radio system with Work Services	12	Q. Now I'd like to ask Mr. Haynes a few questions
13	participating and with the ability to	13	
14	accommodate Newfoundland Power in the future	14	as Mr. Dunphy has already said and as
15	at the time they need to replace their system,	15	everybody in the room is aware, we've brought
16	1	16	this project before the Board before. Why,
17	that time, is that correct?	17	from Hydro's operations and management and
18	MR. DUNPHY:	18	1
19		19	bring this radio again for approval at this
20	- 1	20	time?
21	Hydro to replace its current Mobile Radio	21	MR. HAYNES:
22	System with a new system, is that correct?	22	A. Hydro did, as you mentioned, apply for this
23	MR. DUNPHY:	23	approval on two previous occasions and in our
24	A. Yes.	24	opinion, we've been very fortuitous to have
25	Q. With Work Services participating, is that	25	actually survived in the intervening period
	Page 43		Page 44
1	without a major failure. As Mr. Dunphy	1	wholesale replacement of the system. It is a
2	explained, it'sas it is, we're hanging by a	2	critical component of Hydro's system
3	thread. We must proceed without delay to	3	operations, from a point of view of
4	replace this system. It will be sixteen years	4	dispatching resources to fix repairs, to put
5	old by the time it's replaced, assuming	5	lines back in service, to obtain the necessary
6	approval. And as Mr. Dunphy mentioned as	6	work permits for crews to safely work, to
7	well, it was also designed for a ten-year life	7	efficiently work and to minimize the outage
8	and to continue without planning an immediate	8	time, particularly during emergencies. And
9	replacement is just too risky and it	9	it's also used on a routine daily basis, if
10	jeopardizes reliable service to our customers.	10	not hourly basis, for all work, communications
11	There are several significant safety	11	with field staff right across the Island. And
12	implications and we are convincedall of us	12	it is, from across the Island's point of view
13	are convinced that it will fail, without a	13	that our requirements are specific. We do
14	doubt, sometime soon. And a planned	14	operate the provincial grid. It covers the
15	replacement is much more expedient, it's much	15	whole Island and we need to have effective,
16	more cost effective than being forced into	16	reliable and competent communication system to
17	something without appropriate time to plan and	17	effectively do that job. The replacement as
18	replace. The system, as Mr. Dunphy again	18	proposed will ensure continued efficient
19	mentioned, is obsolete. There are no spares	19	operation through routine and emergency
20	available to be purchased and it will take	20	repairs, as I mentioned and will hasten
21	approximately two years to replace this	21	repairing the service of outage lines and
22	system. The replacement, as we have gone down	22	equipment that otherwise would extend the
23		23	• •
24	Newfoundland Power, as we've shown, is the	24	any time of the year. We are proposing to go
25	least cost to the customers to go with the	25	with a Request for Proposals for the
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	Page 45		Page 46
1	MR. HAYNES:	1	those numbers, we analyzed those numbers for
2	functional specification that will allow	2	quite ain a very specific detail and we've
3	vendors to propose cost-effective solutions	3	arrived at a budgetary estimate of 8.4
4	that we can evaluation and meet out needs and	4	million. We think that it's an appropriate
5	it will also meet Newfoundland Power's needs	5	number and we're quite sure that we will come
6	that's been identified if that's the economic	6	in under that numberat or under that number.
7	thing for them to do when their system needs	7	Additionally, we are also assured that
8	to be replaced, which is not in the current	8	Work Services & Transportation will be on
9	horizon. The estimated capital cost which is	9	board at the end of the day which will
10	8.4 million dollars, as Mr. Dunphy mentioned,	10	actually be a benefit to the ratepayer. So,
11	we did send out a request and he was quite	11	you know, the final cost obviously will be
12	specific, we sent out a request for budgetary	12	evaluated after we get the functional
13	estimates. As you can appreciate, when we go	13	specification and get our bids back, but we're
14	with a specification for a system like this,	14	quite comfortable this is the appropriate
15	every vendor has to invest money to prepare a	15	number, realistic and will ensure our
16	specification and it could be 100, 200 or in	16	customers continued reliable service overall.
17	some cases for some of our jobs, not	17	Q. Mr. Haynes, you mention that the estimate or
18	necessarily this particular VHF radio, it	18	the amount shown of 8.4 million dollars there
19	could be in the hundreds of thousands of	19	on B-137, came following the evaluation of
20	dollars to actually bid. They obviously want	20	Requests for Proposals. Was Hydro's
21	certainty that there's going to be a job at	21	consultant, Custom Electronics, involved in
22	the end of the day before they're going to	22	the analysis of the bids?
23	take that risk, which is part of the normal	23	MR. HAYNES:
24	business, so we did get budgetary quotes from	24	A. Yes, they were.
25	four suppliers. And we basically looked at	25	Q. And is it the advice of Hydro's expert
			- 1
	Page 47		Page 48
1	Page 47 consultant that this is a reasonable estimate	1	·
1 2		1 2	Page 48
2	consultant that this is a reasonable estimate		Page 48 have had VHF radio system in use in excess of
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1 MR. HAYNES:	specification and how is it different than
2 A. Yes.	2 going out for a bid or a tender for a specific
3 Q. So it is Hydro's view that Hydro engineering	item, such as a vehicle?
4 staff have expertise in the area of	4 MR. HAYNES:
5 telecommunications, is that correct?	5 A. Obviously, when you go out for a tender for a
6 MR. HAYNES:	6 vehicle or a power transformer, you identify,
7 A. Yes, that's correct.	you know, that you want, obviously, a car or a
8 Q. And in fact, we have staff or specialists in	8 pick-up truck or whatever. Or if you're going
9 that area, as evidenced by Mr. Dunphy, is that	
10 correct?	and the rating of the transformer and you know
11 MR. HAYNES:	what you're going to get. It's pretty
12 A. Yes, if you recall Mr. Dunphy's job	standard technology. It's evolving at a much
description, earlier job, he was a	slower pace than some of the communications
communications engineer. That was his prima	ary 14 things and the computer driven things that we
role, to look after our communications aspects	do. We have used functional specifications
of our corporation. It is an essential part	for the first microwave system that we did or
of our operation.	for the replacement microwave systems. We
18 Q. And it's one that we've been doing for a	used a functional specification for the VHS
number of years, is that correct?	system that was replaced in the late '80s. We
20 MR. HAYNES:	used a functional specification for the, not
21 A. Essentially since the beginning, particularly	so much this last go, but the first
for the last, at least, 30 years.	distributed control system of Holyrood was a
23 Q. Now, you also mentioned a functional	functional specification. You know, it's a
specification. I just wanted you to tell the	common thing. Even for Granite Canal, I mean,
25 Commissioners, what is a functional	25 we did not go out and specifywhen we
Pa	age 51 Page 52
undertook Granite Canal which a 135 million	n functional specifications, in your view, have
2 dollar project, we didn't say that we were	they been productive and effective from
going to, when this project was approved and	Hydro's perspective?
4 we started, we didn't necessarily know exactly	y 4 MR. HAYNES:
5 each and every technology that would be	5 A. Yes, I think they've been very productive and
6 involved in that particular job. However, at	6 effective.
7 the end of the day, we delivered that job on	7 Q. And is it your position that that's the most
8 time and on budget. It's a common practice to	
9 go out. We don't do all the technical details	9 Mobile Radio System based on Hydro's
up front. We want to go out and we want to	
gain the expertise of the vendors to come up	11 MR. HAYNES:
with their solutions and I should go back to	12 A. I think it's the only way to proceed.
when we do actually go for an RFP, we want the	•
vendors to know that we are going to do a job	
because we want them to invest the engineering	
time and effort, to actually exercise their	16 MR. KENNEDY:
skills and come back with a technology and a	-
18 cost effective solution for Hydro.	alphabet suit of initials, I think we could
19 Q. The functional specification, I gather from	use Mr. Downton's initials as he spoke
your answer, is not unique to this mobile	specifically to the Powerpoint, so Exhibit ED
radio project as before the Board at this time?	21 No. 1.
22 time? 23 MR. HAYNES:	22 GREENE, Q.C.: 23 Q. It would be Mr. Dunphy who spoke.
LO MIN. HATNES.	23 Q. It would be Mr. Dunphy who spoke.
24 A That's correct	24 MD KENNEDV.
<ul> <li>A. That's correct.</li> <li>Q. In Hydro's experience, as you've outlined with</li> </ul>	24 MR. KENNEDY: th 25 Q. Sorry, Mr. Dunphy.

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	Page 53 Page 54
1 GREENE, Q.C.:	1 Q. Now, at the bottom of page 18, which is, in
2 Q. GD No. 1.	2 fact, the concluding paragraph of the report,
3 CHAIRMAN:	yes, that's right there, Mr. O'Rielly, the
4 Q. Okay.	4 concluding comment is, "overall, it is clear
5 MR. HAYES:	5 given that Newfoundland Power does not need to
6 Q. Thank you, Chair. I'd ask if Mr. O'Riel	
7 could perhaps bring up the report at Section	· · · · · · · · · · · · · · · · · · ·
8 G, Tab 4, the Application, please. Goo	
9 morning gentlemen.	9 Department of Transportation and Works in the
10 MR. HAYNES:	system and allow for the possible integration
11 A. Good morning, Mr. Hayes.	of Newfoundland Power at a later date". And
Q. I just ask that whoever feels most comforts	
answering a particular question, please fee	
14 comfortable to do so. Mr. O'Rielly, if yo	
could go to page 18 of the report, that's	15 A. Yes.
where we'll start. Now gentlemen, this rep	
is the reportsorry, there you are. Thank	that conclusion, however some of the numbers
you, Mr. O'Rielly. Now, this report,	can be a little confounding. So, I'd like to
gentlemen, this is the report that resulted	take a few moments with the assistance of the
for the consultative process that occurred i	
the past year between Newfoundland Pow	
Hydro arising out of the Board's commen	
23 Order P.U. 29 (2003), is that correct?	perhaps if you could go to page B-137 of the
24 MR. DUNPHY:	24 Application. Thank you and just show the
25 A. Yes.	table there. That's fine, thank you. Now,
25 11. 165.	
the project explanation shows capital	Page 55  1 MR. DUNPHY:
2 expenditures of approximately 2.9 million	
dollars in 2005 and approximately 5.4 mill	1 0 1
dollars in 2006 for a total capital	4 radios, maintenance and training, that would
5 expenditure of approximately 8.39 million	
6 correct?	6 Hydro.
7 MR. DUNPHY:	7 Q. Okay, thank you.
8 A. Yes, that's correct.	8 MR. DUNPHY:
9 Q. Okay. Now, Mr. O'Rielly, now if we cou	
back to the report at page 15, scroll to the	10 Q. Thank you. Now, the paragraph that you were
bottom of page 15 when you get there. The	
you go, so we can see the table. Thank yo	
Table one at the bottom of page 15 show	
total capital cost estimate of approximatel	
15 7.183 million dollars for Hydro's new V	
16 system with the Department of Transporta	
and Work participating. Now, is my	
understanding correct that the difference	
between that figure of 7.183 million and t	
20 8.39 million dollar figure referred to on pa	
1	•
1/1 D-13/ Willell We like hooken at its main	21 cost approximately 2 million dollars more with
B-137 which we just looked at, is that th	
22 7.183 million dollars does not include th cost of user radios and certain related	

25

A. Yes, I believe, that's correct.

Q. And that 2 million dollars does not include

24

25

correct?

maintenance and training costs, is the

	Tuge 112 Hydro 5 2000 Capital Dauget Hypheation
Page 57	Page 58
1 MR. HAYES:	1 A. That's correct, again, user radios would be
the cost of Newfoundland Power's user radios	2 excluded from that analysis. The next
and any related training and maintenance cost,	3 paragraph actually explains the details of
4 is that true?	4 what included in there.
5 MR. DUNPHY:	5 Q. Okay, thank you. Is my understanding correct
6 A. No.	6 that the figures in table 2 were derived from
7 Q. Okay. If we could go to page 16, please, just	7 the cost estimate for the total system of
8 the top of the page would be good. At table	8 10.41 million dollars referred to on page 15?
9 2, that's on the top of page 16 also shows an	9 MR. DUNPHY:
estimated capital cost for the new VHF system.	10 A. I'm sorry, could you restate your question?
Now, this table is similar to table 1, is it	Q. The cost estimate in table 2 of 9.203 million
not, except that table 2 has Newfoundland	dollars, was the derived from the total system
Power participating in addition to Department	estimate of 10.41 million dollars including
of Transportation and Works?	Newfoundland Power which was on page 15 of the
15 MR. DUNPHY:	15 report?
16 A. Yes, that's correct.	16 MR. DUNPHY:
17 Q. The estimated total capital cost estimate in	17 A. I believe that to be true.
table 2 is 9.203 million dollars approximately	18 Q. Okay, thank you. So, from the 10.41 million
which is about 2 million dollars higher than	dollars, the cost of Hydro's user radios,
the 7.183 million dollar total capital cost in	20 maintenance and training was taken out,
21 table 1. Now, that 2 million dollar	21 correct?
difference is essentially the total capital	22 MR. DUNPHY:
cost of adding Newfoundland Power to Hydro's	23 A. Yes.
new system, is that correct?	24 Q. And then the balance, in table 2 on page 16,
25 MR. DUNPHY:	the balance of 9.203 million dollars was
Page 50	Page 60
Page 59	Page 60
allocated among Hydro, the Department of	1 that correct?
allocated among Hydro, the Department of Transportation and Work and Newfoundland	1 that correct? 2 MR. DUNPHY:
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Page 61	Page 62
1 MR. HAYES:	1 Q. Okay, thank you. And alternative 4 is the
2 correct?	2 alternative Hydro is proposing in this
3 MR. DUNPHY:	3 proceeding which is a replacement VHF radio
4 A. Yes.	4 system with Department of Transportation and
5 Q. And if go back to page 17, table 4, the costs	5 Works sharing the new system and with
6 associated with that solution are found in	6 Newfoundland Power continuing to use its
7 Item 4, is that correct?	7 existing system for the foreseeable future, is
8 MR. DUNPHY:	8 that correct?
9 A. Yes.	9 MR. DUNPHY:
10 Q. And that option is generally referred to as a	10 A. Yes.
consultants report as alternative 4, is that	11 Q. Now, the figures in the cumulative present
12 correct?	worth column in table 4, those represent the
13 MR. DUNPHY:	capital and operating costs of Hydro only, is
14 A. I believe so, yes.	the correct? That's page 17.
15 Q. Do you want to just confirm that?	15 MR. DUNPHY:
16 (10:45 a.m.)	16 A. Yes, yes, it does.
17 MR. DUNPHY:	17 Q. Yes. I notice when Ms. Greene was examining,
18 A. If I can refer back to the executive summary.	you referred to, in the conclusions, on page 2
Can you quote a specific page?	as being from Newfoundland and Labrador
20 Q. Go to page 1.	20 Hydro's point of view.
21 GREENE, Q.C.:	21 MR. DUNPHY:
22 Q. Page one, yes.	22 A. Yes.
23 MR. DUNPHY:	23 Q. Yes. So, the identification of the least cost
24 A. Yes, I'm sorry.	24 alternative for Newfoundland and Labrador
25 MR. HAYES:	25 Hydro on page 18 of the report again, that is
Page 63	Page 64
1 age of	Page 64
1 made without reference to Newfoundland Power's	proposing for the replacement of its VHF radio
	proposing for the replacement of its VHF radio system is least cost proposal for meeting
1 made without reference to Newfoundland Power's	proposing for the replacement of its VHF radio system is least cost proposal for meeting Hydro's technical requirements and the least
1 made without reference to Newfoundland Power's 2 costs and only refers to least cost in terms 3 of Hydro's cost. 4 MR. DUNPHY:	proposing for the replacement of its VHF radio system is least cost proposal for meeting Hydro's technical requirements and the least cost for the electrical system, is that
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			age NL Hydro 8 2003 Capital Budget Application
	Page 65		Page 66
1 1	HUTCHINGS, Q.C.:	1	view or review by various VPs and the
2	just on the generality of the way Hydro is	2	
3	dealing with capital budget items, we asked a	3	Board of Directors, basically what's before
4	question in the 2004 Capital Budget Hearing,	4	the Board apparently is priority projects.
5	and I don't think we need to bring up the	5	Q. Okay. And I presume that Mr. Martin correctly
6	answer, it's very straightforward, but it was	6	stated the executive position of Hydro
7	IC-49 last time, and it was a question of how	7	yesterday when in response to Commissioner
8	Hydro would rank in terms of order of priority	8	Powell on the issue of deferral of projects,
9	for most essential to least essential, the	9	Mr. Martin said there are lots of other
10	projects in the budget. And the response was	10	projects that are deferred that we don't,
11	basically that Hydro considers all projects	11	either don't think they're justified at the
12	included in the application to be of a	12	
13	priority nature and required to provide	13	
14	reliable service and facilities to its	14	
15	customers. And I take it that's still Hydro's	15	
16	position?	16	
1	MR. HAYNES:	1	MR. HAYNES:
18	A. It's Hydro's position, yes.	18	
19	Q. And has been Hydro's position in respect of	19	-
20	capital budgeting, I guess at least since the	20	
21	time that it was required to come before this	21	that, we assess them, we, sometimes we'll move
22	Board for approval?	22	
1	MR. HAYNES:	23	·
24	A. Our view is that the budgets that have gone	24	
1			·
125	inrough our internal process from the boint of	125	it's not a priority, we don't think it's
25	through our internal process from the point of	25	1 7,
	Page 67		Page 68
1	Page 67 essential to do it at this time, so.	1	Page 68 find the first revision, which was October
1 2	Page 67 essential to do it at this time, so. Q. Right, okay. I wonder if we could now look	1 2	Page 68 find the first revision, which was October 31st, 2001. And that basically indicated that
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October 8, 2004 Mult	i-Page NL Hydro's 2005 Capital Budget Application
Page 69	Page 70
1 HUTCHINGS, Q.C.:	1 be deferred?
2 business case for the replacement of the radio	2 MR. HAYNES:
3 system which was dated March 25, 2003. I	3 A. Yes, that's correct. I think as I mentioned,
4 think that's the next page after the one	4 we consider ourselves to have been very
5 that's up there now. And that's the project	5 fortuitous to have survived this long without
6 that you, I think, all three of you gentlemen	6 a major impairment of the system. But on any
7 spoke to last year as well. Isn't that	7 technical things, I would refer to Mr. Dunphy
8 correct?	8 to clarify any issues that we've had with the
9 MR. HAYNES:	9 system.
10 A. Yes, it is.	10 Q. Right, okay. But Hydro did not put the
11 Q. Yes, okay. And if we could turn to page 13 of	project ahead again for its 2003 Capital
that business case? The conclusion which is	Budget, did it?
there on the screen now at the end is that	13 MR. HAYNES:
14 Hydro should proceed with the installation of	14 A. No. Obviously we were responding to the, I
the mobile trunked radio system as soon as	guess, the rejection of the proposal by the
possible as any further delay will likely	Board and went back for a serious review of
result in the unavailability of any system due	the whole thing and to reaffirm ourselves that
to the deteriorating performance of the	this was the right thing to do and that was
19 current system, correct?	19 our conclusion.
20 MR. HAYNES:	20 Q. Okay.
21 A. Yes.	21 MR. HAYNES:
22 Q. Okay. So is it fair to say that in the fall	22 A. For the previous submission and certainly for
of 2001 it was Hydro's best engineering	this submission.
judgment that this system had to be replaced	Q. If we could look now to the response to IC-39
in 2002 and that that project could not then	from this year? This outlines the operating
Page 71	Page 72
1 experience in respect to the system. And the	1 However, as I stated in my presentation,
2 2004 experience included here is up to,	failure is random in occurrence. We don't
according to the response, September 17, 2004.	know when it will fail, we don't know if it
4 And that has been quite a bit more positive	4 will fail this afternoon, we have no idea.
5 than the 2003 experience, hasn't it?	5 What we do know is that the system is quite
6 MR. HAYNES:	old, it's quite a long time beyond its
7 A. The numbers to date I would defer to Mr.	7 expected design life, it hasn't been supported
8 Dunphy to talk about a specific performance of	for many years and that it's only a matter of
9 the system.	9 time before it will. But we certainly can't
10 Q. Okay.	predict when that catastrophic failure will
11 CHAIRMAN:	be, we only expect that it is going to come.
12 Q. Mr. Hutchings, excuse me, which IC is this?	12 11:15 a.m.)
13 HUTCHINGS, Q.C.:	13 Q. Yes. And as we already touched on, I guess,
14 Q. This is 39.	it was Hydro's best engineering judgment that
15 CHAIRMAN:	this project was required to be undertaken in
16 Q. 39, thank you.	16 2002, correct?
17 HUTCHINGS, Q.C.:	17 MR. DUNPHY:
18 Q. So, Mr. Dunphy, would you agree with me that	18 A. I would say at the time it was prudent. I
the performance of the system in the calendar	think now it's critical that it be replaced.
year 2004 to date, that is to say, to	20 Q. Okay. Do you know the effect on the ratepayer
September 17, 2004, has been more positive	of the deferral of this project from 2002 to
than the performance in 2003?	now an in service date of 2006?
23 MR. DUNPHY:	23 MR. DUNPHY:
24 A. Certainly. We've been extremely lucky. The	24 A. No, sir, I don't.
system has performed well to this time.	25 Q. Okay. Did you hear Mr. Powell's questions to

October 8, 2004 Page 73 Page 74 million project would result in an increase in 1 HUTCHINGS, O.C.: 1 revenue requirement in the range of \$400,000? Mr. Martin yesterday where he referred to Mr. 2 Roberts' evidence about the impact on revenue 3 3 MR. HAYNES: requirement of the \$33.9 million that would go A. I would suggest that Mr. Roberts would be the 4 4 into rate base in 2005? most appropriate person to answer that 5 5 6 MR. DUNPHY: question. 6 A. I certainly remember it in general terms, yes. 7 Q. Okay. But if the effect is proportional, then 7 Q. Yes, okay. And there was \$1.7 million in that would be the result, would it not? 8 8 additional revenue required as a result of 10 that \$33.9 million in rate base, correct? 10 A. I'm not sure it is proportional. I'm not qualified to answer that question. 11 MR. DUNPHY: 11 Q. Okay. No, I'm not asking you if it is 12 A. I'd have to refer back to confirm that. 12 Q. Yeah. Well, you can refer to Mr.--perhaps proportional. I'm saying if it is 13 13 we'll bring up Mr. Roberts' evidence, the proportional then that would be the effect, 14 14 finance evidence at page 6. And at the top of 15 correct? 15 16 that page you can see that the impact on 16 MR. HAYNES: revenue requirement of the inclusion in rate A. Possibly, but Mr. Roberts would have to 17 17 base of approximate 33.9 million of 2005 confirm that. 18 18 capital expenditures related to projects Q. Okay. And the three or four years deferral of 19 19 completed and in service in 2005 would be an that, if in fact, it is in fact a \$400,000 20 20 increase of approximately \$1.7 million? item would amount to a 1.2 to 1.6 million 21 21 22 MR. HAYNES: 22 dollar saving to ratepayers from the deferral A. Yes. 23 of this project from 2002 to 2006, is that 23 Q. Okay. And would you agree with me then that correct? 24 24 the inclusion in rate base of this \$8. 3 25 25 MR. HAYNES: Page 75 Page 76 A. That's only correct if your assumptions are 1 CHAIRMAN: 1 correct, which I really cannot -2 Q. I think I have to concur with that, Mr. 3 Q. On that assumption, on the assumptions that Hutchings, subject to, you know, you making a 3 I've put to you? comment on it. But, I don't know that the 4 4 5 MR. HAYNES: 5 assumptions by these particular witnesses would be in that regard very helpful to the A. - I really cannot testify if that's correct or 6 not. Mr. Roberts would be the most 7 7 Board. 8 appropriate -8 HUTCHINGS, O.C.: 9 Q. Okay. On the assumptions that I put to you, Q. I thought it was pretty straightforward in would you agree with that? terms of the assumptions that were put and I 10 10 would have thought that the witness would be 11 GREENE, O.C.: 11 able to deal with it, Mr. Chair. But in any Q. Mr. Chair, at this point I do have problems 12 12 with the assumptions that Mr. Hutchings is event, we can deal with it with a later 13 13 witness and the issue will be fully canvassed

putting forward. We can explain what the revenue requirements means, we can explain how customers are not impacted until rates get changed and the actual costs get incorporated into the rates. And if Mr. Hutchings wish to pursue this line of questioning, Hydro's

19 position is it should be done through the 20

financial witnesses, not through the operation 21 and engineering witnesses. Because he's now 22

getting into how rates are set and what the 23 impact are on rates and we are not offering 24

these witnesses for that purpose. 25

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17 CHAIRMAN:

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Q. Thank you, Mr. Hutchings. Mr. Kennedy? 18 19 MR. KENNEDY:

the panel, Mr. Chair.

Q. Thank you, Chair. Members of the panel, 20 gentlemen. There was reference made to the 21 fact that part of the thinking, if you will, 22

then. Those are all the questions I have for

that Hydro is employing when putting forward 23

this project as proposed is to minimize or 24 lessen its dependence on third parties, and 25

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1	MR. KENNEDY:	1	component, really. And if you can just give
2	specifically Aliant. You mentioned the fact	2	
3	that you want to bring some of your towers	3	
4	into Hydro owned facilities, if you will. I'm	4	MR. O'RIELLY:
5	wondering if you could just explain exactly	5	Q. (Inaudible).
6	whathow this proposal works in that regard?	6	MR. DUNPHY:
7	Is there a shift away from using third party	7	A. Yes, thank you. We've indicated that the
8	services contemplated or will it be about	8	
9	equal to what you're now using?	9	
10	MR. DUNPHY:	10	
11	A. I guess first off to explain to the members of	11	
12	the Board, the intention here is to utilize	12	•
13	Hydro's existing microwave radio towers. Mr.	13	·
14	Haynes mentioned yesterday that we have a	14	•
15	microwave radio system which starts in St.	15	•
16	John's and terminates in Deer Lake and Bay D'	16	
17	Espoir. And in order to reduce operating	17	
18	costs we intend to move to Hydro owned sights	18	MR. KENNEDY:
19	wherever practical for these radio repeaters.	19	Q. You referenced the fact that the switch is
20	There are operating costs associated with	20	currently located in Gander. If I'm
21	having those in third party sites. So that	21	paraphrasing incorrectly, please advise me,
22	specifically is what we were referring to	22	but that Hydro is having difficulty accessing
23	there. I guess in answer to one of the	23	expertise within Aliant to be able to maintain
24	questions, one of the PUB questions regarding	24	that switch. I think you referenced that most
25	maintenance of the system, that's the other	25	of the people that used to take care of that
	Page 79		Page 80
1	switch, who works for Aliant but used to take	1	MR. DUNPHY:
2	care of that switch for Hydro have since	2	A. We can provide minimal assistance, but not
3	retired or moved off, if you will, to other	3	really. We have the same issues. Additional
4	positions, presumably, but that there's a void	4	training is unavailable. Many of the people
5	inside of Aliant, is that correct?	5	who were involved in the system are currently
6	MR. DUNPHY:	6	enjoying their retirements and the knowledge
7	A. Yes. With respect to the maintenance of this	7	simply is not there to take advantage of.
8	particular piece of equipment. But I think	8	Q. Okay. So, I guess it begs the question then
9	that the primary cause of that is the fact	9	of how do we or how does Hydro intend to avoid
10	that there is no manufacturer support. I	10	ending up in the same position with this new

10 that there is no manufacturer support. I 11 think it's fair to say, and I know I can't 12 speak for Aliant, but I think it's fair to say 13 that Aliant would have the personnel available 14 to maintain the system if additional training 15 were available. My only point was that that ability is not there. They can't take 16 17 advantage of any additional training. So that adds, through attrition of the people who were 18 19 originally trained the knowledge base, if you will, has declined.

Q. And so is it safe to assume then that Hydro

itself is unable to at this point provide

expertise to Aliant to assist with the

maintaining of the switch in Gander, current

10 ending up in the same position with this new 11 system where is there an intention for you to 12 acquire your own expertise or is it entirely a 13 reliance on the third party? 14 MR. DUNPHY: A. No. Certainly we have--as with the existing 15 system we have trained our people in the past 16 17 and we fully intend to train our own people in 18 the maintenance of the system and particularly in the management of the system. 19 20 21

Q. And the budget figures that counsel for Newfoundland Power was bringing you through 22 and indicating the difference between your overall budget amount and the amount that was 24 in your document and some of it related to, I 25 believe, training costs associated with the

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switch?

relying on the Aliant network?

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5 MR. DUNPHY:

Q. And so, is there redundancies built into your

A. Yes, there are. The intention is to utilize wherever possible Hydro's existing facilities

design or some other approach taken which

to minimize the reliance on Aliant's network.

Unfortunately, because of the geographic

reality of Newfoundland, in many locations there are no other alternatives available that

are cost effective. So, the design would, as far as possible, minimize the ability of an

outage in the network to affect the overall

would minimize the exposure that Hydro has to

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	Page 81
1	MR. KENNEDY:
2	new system?
3	MR. DUNPHY:
4	A. Yes. There would be two types of training.
5	There would be training for our maintenance
6	personnel, there would also be user training.
7	Any change in the system will require us to
8	retrain the users in how to access the system.
9	Q. Related to that, if you could just look at
10	PUB-21? And this question asks that in the
11	event of a failure of the Aliant network, what
12	would be the impact on the operation of the
13	proposed MRS and line work in progress. Has
14	Hydro considered alternative means of backhaul
15	(phonetic) communications for backup? So, as
16	a related question then, in addition to you
17	in addition to Hydro relying on Aliant or
18	whoever the ultimate vendor is, but Aliant,
19	presumably, if you were to choose them in
20	providing you with service for the system,
21	you're also relying in part, as I understand
22	it, on Aliant's network in order for this
23	mobile radio system to work?
24	MR. DUNPHY:

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1 MR. DUNPHY: 2 A. Well, there are many different equipment 3 vendors and suppliers in the marketplace that can provide a solution. In many cases there 4 5 is only one vendor of a particular technology. If we were to preselect and insist that a 6 particular technology was going to provide our 7 needs, then one particular vendor knows that 8 9 they are chosen and they can choose to bid the system appropriately. By developing a--or 10 inappropriately as may be the case, I guess. 11 By utilizing a function of specification and 12 indicating what the system has to provide we 13 14 can do a much more--or ensure that a much more 15 competitive process is used so that different vendors will propose cost effective solutions. 16 This is commonly used, it was used, as Mr. 17 Haynes indicated, in many different instances 18 19 in the past to assure we're getting the most appropriate solution at the time. The other 20 point to make is that a year, in technology 21 terms a year is a lifetime. And if we are 22

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A. Yes, that's true.

system. 15 16 Q. You indicated that at one point that in bringing--on your direct in going through the 17 power point presentation that it was not 18 appropriate at this time to choose the final 19 technology solution. Is that correct? 20 21 MR. DUNPHY: 22 A. Yes. 23 Q. Could you tell me why it's not appropriate at this time to choose the final technology 24 solution? 25 Page 84 cost effective. There can be more 1 2 technologies that have been withdrawn from the market. I think our existing system is an 3 example of that in that it was, by the mid 4 5 1990s it was no longer an alternative on the market. 6 Q. So, to paraphrase then, the strategy, if you 7 will, is to maintain a horse race of sorts 8 9 with your potential suppliers so that you get competitive bids from various suppliers? 10 11 MR. DUNPHY: A. Yes. 12 13 Q. Okay. Let's just assume for a moment that approval is given for the project. Could you 14 just bring me through what the process will be 15 in Hydro after that approval is given and 16 bring us up to the actual contract let, if you 17 will? 18 19 (11:30 a.m.) 20 MR. DUNPHY: 21 A. Well, in general terms we would complete a specification which included specific contract 22 terms, legal and other conditions. We would 23 complete the detailed engineering analysis 24 confirming that the function of specifications 25

looking at, you know, going forward with this

project in 2005, there can be new technologies

that have appeared on the market that are more

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1	MR. DUNPHY:	1	is given, that it would take a number of
2	that we have are sufficient and don't need to	2	months before you would actually be in a
3	be changed in any way. We would make sure	3	position to issue your tender?
4		4	MR. DUNPHY:
5		5	A. Yes. And we've talked about some preliminary
6		6	dates for that. I think that Mr. Downton can
7	what was important to be evaluated in the bids	7	correct me if I'm wrong, but, you know, that
8		8	would probably be in the first quarter,
9	system of this size the development of the	9	sometime in the first quarter of 2005 to
10		10	finalize all those requirements.
11	and tender responses from vendors would	11	Q. Okay. And assuming your turn around, you
12		12	indicated that you would expect maybe a month
13		13	or so for tenders to actually be received by
14		14	or bids by Hydro and then that there's an
15	financial implications and the technology	15	evaluation process that would take place and
16		16	then eventually you would select your
17	Q. So without holding Hydro to specific dates,	17	technology. That would be the general
18	when would you expect to be in a position to	18	process?
19	be able to issue a tender?	19	MR. DUNPHY:
20	MR. DUNPHY:	20	A. I would hesitate to say, to suggest that one
21	A. I'd like to give that a little bit more	21	month would be sufficient. In fact, many,
22	thought. I haven't reviewed the proposed	22	many tenders, vendors will request extensions
23	schedule in quite sometime.	23	on, so it would probably be a bit longer than
24	Q. You were referencing months, I think. So is	24	that.
25	it safe to assume that if we assume approval	25	Q. Okay. So, would we be safe in assuming that
	Page 87		Page 88
1	it would take at least six months, say, for	1	to your new system?
2	you to be in a position of actually selecting	2	MR. DUNPHY:
3	the technology that Hydro wants to employ for	3	A. It's a bit preliminary to say that. In fact,
4		4	the RFI that we issued specifically asked
5	MR. DUNPHY:	5	vendors to address the issue of doing a phased
6	A. Yeah, I think it would be safe to say it would	6	replacement so that we could get the switch
7	be at least six months.	7	out first. So I don't really know if that
8	Q. And you have the budgeting spread over two	8	would be the case.
9	years, correct, there's an in service date	9	Q. Okay. If we could just pull up PUB-10 for
10	expected of 2006, correct?	10	just a moment? And, gentlemen, this question
11	MR. DUNPHY:	11	asked please explain how the capital and
12	A. Yes.	12	operating costs were derived. And this is the
13	Q. Would you actually contemplate starting	13	summary of findings from your mobile radio
14	construction of your system in 2005 though?	14	system summary and finding, page 15. And as
15	Part of the 2 million 914 for 2005, presumably	15	you just indicated, you have a specification
16	some of that relates to actual construction of	16	or an RFP that you issued but that there's no
17	a new system?	17	final technology that's being selected. And
1	MR. DUNPHY:	18	so, that begged the question of, well, if
19		19	there is no final technology selected, how was
20	*	20	it that Hydro was able to derive capital and
21	•	21	operating costs in order to conduct its
122	O And you're relying on the existing system	22	analysis And you indicate that it was

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analysis. And you indicate that it was

through a detailed analysis of the proposal

received and Hydro's consultant and Hydro

personnel reviewed the estimates for accuracy

Q. And you're relying on the existing system

while you're putting the new system in? In

other words, it has to be completely installed

before you would actually be able to flip over

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	Page 89		Page 90
1	MR. KENNEDY:	1	Do you recall those questions?
2	and completeness and adjustments were made	2	MR. HAYNES:
3	where warranted based on estimates for similar	3	A. Yes, I do.
4	work and previous experience. So was the	4	Q. Okay. In light of the fact that Hydro hasn't
5	costing data that Hydro used in its analysis	5	selected a final technology and therefore that
6	and as detailed in its summary of findings	6	there is an assumed chance that the project
7	derived from a compilation of the proposals	7	chosen could be technically quite different
8	that were received in reply your RFP or was it	8	than what's presently contemplated, could you
9	one particular vendor's proposal that these	9	give the Board some indication of how accurate
10	costing datas was based upon?	10	you fell the costing data is as indicated in
11	MR. DUNPHY:	11	your actual proposal and what you would expect
12	A. No. It was actually a compilation.	12	to be a reasonable variance from those budget
13	Q. Mr. Haynes, this would be a question directed	13	proposals?
14	more towards you as a follow-up to a line of	14	MR. HAYNES:
15	questions that I pursued yesterday with you.	15	A. And Mr. Gerard can correct me if I'm wrong,
16	And that had to do with your budgeting	16	because I'm going to step a little bit into
17	variances where there's detailed engineering	17	thein the weeds a little bit. But the
18	work yet to be done. Do you recall those	18	estimate that thewhen we went for a request
19	questions?	19	for quotations to the ten or so vendors, we
20	MR. HAYNES:	20	received four that was analyzed, scrutinized
21	A. Yes.	21	and basically a lot of discussion on what
22	Q. And we were talking about what would be an	22	actually went into that particular estimate of
23	acceptable level of plus or minus off of your	23	\$8.4 million. And I was involved in some of
24	original budget estimate where you both have,	24	those discussions on those numbers. Those
25	where you have an MPV and where you don't MPV.	25	technologies are all very similar. It would
	Page 91		Page 92
1	be our estimation that any different	1	actually go outside the scope. The scope is a
2	technology would actually be less than that,	2	functional specification. There are two
3	not more than that. We think that there is a	3	things that we would obviously be concerned
4	reasonable number for what the vendors came	4	with. One is a change of scope where actually
5	back with. We did have four reputable vendors	5	we are doing something different than we
6	come back and obviously they didn't spend two	6	originally proposed and all we propose is to
7	months, you know, preparing a detailed	7	replace the VHF radio. So, you know, there
8	estimate, it's a budgetary number. We're	8	will not be a change in scope, per se. There
9	comfortable that that is an accurate budgetary		
1	commontable that that is an accurate suagetary	9	obviously may be a change in the estimated
10	number. And in fact, if they were to come	9 10	obviously may be a change in the estimated capital cost. I'm reluctant to say there's a
10	•		
	number. And in fact, if they were to come	10	capital cost. I'm reluctant to say there's a
11	number. And in fact, if they were to come back with an alternate technology, obviously	10 11	capital cost. I'm reluctant to say there's a number that, you know, would force us to come
11 12	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper.	10 11 12	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do
11 12 13	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper.  If they come back with an alternative that's	10 11 12 13	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm
11 12 13 14	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper. If they come back with an alternative that's 10 or 15 million dollars, obviously we'd have	10 11 12 13 14	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm reluctant to sit on a number that actually identifies a specific number. It is reported
11 12 13 14 15	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper. If they come back with an alternative that's 10 or 15 million dollars, obviously we'd have to look a little bit harder. But, we do need	10 11 12 13 14 15	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm reluctant to sit on a number that actually identifies a specific number. It is reported
11 12 13 14 15 16	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper. If they come back with an alternative that's 10 or 15 million dollars, obviously we'd have to look a little bit harder. But, we do need a VHF radio system, and the specifications,	10 11 12 13 14 15 16	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm reluctant to sit on a number that actually identifies a specific number. It is reported to the Board routinely, anyway.  Q. Would youyou mentioned about at its essence this is a proposal to replace the mobile radio
11 12 13 14 15 16 17	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper. If they come back with an alternative that's 10 or 15 million dollars, obviously we'd have to look a little bit harder. But, we do need a VHF radio system, and the specifications, the functional specifications allows us to and	10 11 12 13 14 15 16 17	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm reluctant to sit on a number that actually identifies a specific number. It is reported to the Board routinely, anyway.  Q. Would youyou mentioned about at its essence
11 12 13 14 15 16 17 18	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper. If they come back with an alternative that's 10 or 15 million dollars, obviously we'd have to look a little bit harder. But, we do need a VHF radio system, and the specifications, the functional specifications allows us to and allows the vendors to propose technology that	10 11 12 13 14 15 16 17 18	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm reluctant to sit on a number that actually identifies a specific number. It is reported to the Board routinely, anyway.  Q. Would youyou mentioned about at its essence this is a proposal to replace the mobile radio
11 12 13 14 15 16 17 18 19	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper. If they come back with an alternative that's 10 or 15 million dollars, obviously we'd have to look a little bit harder. But, we do need a VHF radio system, and the specifications, the functional specifications allows us to and allows the vendors to propose technology that will meet our needs at the least cost.	10 11 12 13 14 15 16 17 18 19	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm reluctant to sit on a number that actually identifies a specific number. It is reported to the Board routinely, anyway.  Q. Would youyou mentioned about at its essence this is a proposal to replace the mobile radio system and you've developed the spec. Would
11 12 13 14 15 16 17 18 19 20	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper. If they come back with an alternative that's 10 or 15 million dollars, obviously we'd have to look a little bit harder. But, we do need a VHF radio system, and the specifications, the functional specifications allows us to and allows the vendors to propose technology that will meet our needs at the least cost.  Q. Would you be able to provide comment on when	10 11 12 13 14 15 16 17 18 19 20	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm reluctant to sit on a number that actually identifies a specific number. It is reported to the Board routinely, anyway.  Q. Would youyou mentioned about at its essence this is a proposal to replace the mobile radio system and you've developed the spec. Would you consider the ability of Department of
11 12 13 14 15 16 17 18 19 20 21	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper. If they come back with an alternative that's 10 or 15 million dollars, obviously we'd have to look a little bit harder. But, we do need a VHF radio system, and the specifications, the functional specifications allows us to and allows the vendors to propose technology that will meet our needs at the least cost.  Q. Would you be able to provide comment on when you thinkwhen you would consider the project	10 11 12 13 14 15 16 17 18 19 20 21	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm reluctant to sit on a number that actually identifies a specific number. It is reported to the Board routinely, anyway.  Q. Would youyou mentioned about at its essence this is a proposal to replace the mobile radio system and you've developed the spec. Would you consider the ability of Department of Transportation Works to participate in this
11 12 13 14 15 16 17 18 19 20 21 22 23	number. And in fact, if they were to come back with an alternate technology, obviously for us to entertain it, it would be cheaper. If they come back with an alternative that's 10 or 15 million dollars, obviously we'd have to look a little bit harder. But, we do need a VHF radio system, and the specifications, the functional specifications allows us to and allows the vendors to propose technology that will meet our needs at the least cost.  Q. Would you be able to provide comment on when you thinkwhen you would consider the project to have gone outside its scope from what's	10 11 12 13 14 15 16 17 18 19 20 21 22	capital cost. I'm reluctant to say there's a number that, you know, would force us to come back and reconsider the job, because we do need a VHF radio. It's, you know, I'm reluctant to sit on a number that actually identifies a specific number. It is reported to the Board routinely, anyway.  Q. Would youyou mentioned about at its essence this is a proposal to replace the mobile radio system and you've developed the spec. Would you consider the ability of Department of Transportation Works to participate in this system as being a must for that technical

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	Page 93		Page 94
1	MR. HAYNES:	1	Q. I'm not sure if we left with no or yes, but -
2	A. No, in the estimates that were done and in the	2	MR. HAYNES:
3	net present values that were done, we did do	3	A the Department of Transportation and Works
4	the case where Hydro would go alone, without	4	use our system. It's critical to their
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6	Works Services or Department of Transportation	6	
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15	-	1	MR. HAYNES:
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1	MR. HAYNES:	20	
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22	* * *	22	
23		1	MR. HAYNES:
1	MR. HAYNES:	24	
25		25	
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5			MR. HAYNES:
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14			MR. DUNPHY:
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1	MR. HAYNES:	20	· ·
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125	tachnology is abosen will not produde the	25	and Works or Newfoundland Power from being

and Works or Newfoundland Power from being

technology is chosen will not preclude the

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1 MR. KENNEDY:	1 had an opportunity to be able to review
2 able to participate in the project if they	2 Newfoundland Power's reply?
3 wished to do so?	3 MR. HAYNES:
4 MR. HAYNES:	4 A. Yes, certainly we've reviewed their reply.
5 A. That is a part of the functional	5 Q. Just have one straightforward question. Did
6 specification. That would be a change in	6 Hydro conduct its own independent confirmation
7 scope if we were to somehow arrive at that,	7 of Newfoundland Power's calculations as
8 which would be very unlikely.	8 presented in PUB-22?
9 Q. And if it's a change in scope in the project,	9 MR. HAYNES:
would you feel it incumbent upon Hydro to come	10 A. I don't think we -
back to the Board to seek a change in its	11 MR. DOWNTON:
approval or seek reapproval, if you will, of	12 A. No.
the project?	13 MR. HAYNES:
14 MR. HAYNES:	14 A. We're quite confident that Newfoundland Power
15 A. I guess so. I mean, obviously the cost is one	15 can undertake that.
of the driving factors. If that's a	16 Q. I'm sorry?
significant change of scope or if that's a	17 MR. HAYNES:
part of the order, for instance, that we have	18 A. We're quite confident Newfoundland Power has
to include provisions for that and we could	presented the facts. We would notwe have
20 not do that, obviously we would have to advise	20 not done that.
21 the Board.	21 Q. And gentlemen, I just want to go through now
22 Q. Just one final series of questions. PUB-22	the Board's order in P.U.B. 29 to confirm that
was actually an RFI addressed to Newfoundland	23 the directions were expressly complied with,
Power, seeking some information concerning	and if we could just pull that up, please.
25 their participation in this system. Have you	25 Yes, P.U.B. 29 (2003). I'm sorry, P.U. 29,
Page 99	Page 100
and it's page 33, Mr. O'Rielly. Do you have a	1 Q. Yes, yes, I remember seeing them in your -
2 copy of the -	2 GREENE, Q.C.:
3 CHAIRMAN:	3 Q. Page three?
4 Q. Page 33?	4 MR. KENNEDY:
5 MR. KENNEDY:	5 Q. There we go. So the directions were, first,
6 Q. Page 33, Chair, yes.	6 "Newfoundland Power shall submit to Hydro
7 MR. O'RIELLY:	7 technical requirements document, including a
8 Q. It doesn't appear to be there.	8 detailed engineering assessment of the
9 MR. KENNEDY:	9 functional requirements needed by Newfoundland
10 Q. Okay, I think what I can do is sort of	Power for operating a mobile VHF system into
paraphrase. Gentlemen, I believe you have a	the foreseeable future." Was that completed?
copy of the Order in front of you there on	12 MR. DUNPHY:
	13 A. Yes. If you refer to Section 3 actually of
thedo you have a copy of the actual	
directions of the Board flowing out of P.U.	this report, Mr. O'Rielly, it starts on page
directions of the Board flowing out of P.U.  15 29? I think it's actually in your own summary	this report, Mr. O'Rielly, it starts on page seven. We actually went through in point by
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## October 8, 2004 Page 101 Page 102 A. I would say very approximately, yes. 1 MR. DUNPHY: 1 Q. And that Hydro anticipates work actually being A. Yes. 2 Q. Three is incumbent on Newfoundland Power, as done on the radio system in the last half of 3 3 is four and five. Six, and I believe you've the year? Is that correct? 4 4 spoken to this, that sharing agreements with 5 MR. DOWNTON: 5 the Works Services and Transportation have A. Yes. 6 6 7 been firmed up to the extent possible, prior Q. Mr. Haynes, with respect to the line of 7 to your submitting this proposal? questioning on the level of comfort of the 8 8 cost estimate, you mentioned that you yourself 9 MR. DUNPHY: 9 A. Yes, I would concur with that wording, to the 10 were involved with the evaluation of the bids 10 extent possible. that were received with Mr. Downton and Mr. 11 11 Q. That's all the questions I have, Chair, 12 12 Dunphy. Is that correct? members of the panel. Thank you, gentlemen. 13 (11:48 a.m.) 13 14 CHAIRMAN: 14 MR. HAYNES: Q. Ms. Greene, do you have any redirect? 15 A. Yes, very briefly, but I was involved. 15 16 GREENE, Q.C.: 16 Q. And was Hydro's external consultant involved in the evaluation of the bids received? Q. Yes, I do have a couple of areas. The first 17 17 is with respect to the proposed schedule 18 18 MR. HAYNES: should Hydro receive approval for this 19 A. Very much so. project. I understood, Mr. Downton, from your Q. With respect to the cost estimate, you've been 20 20 answers, that Hydro expects to be ready by mid involved in review of other cost estimates for 21 21 22 2005 approximately to be able to award the 22 other significant projects for Hydro? Is that contract to a successful bidder. Is that 23 23 correct? 24 MR. HAYNES: 24 correct? 25 MR. DOWNTON: A. That's correct. Page 103 Page 104 A. Yes, I certainly think they should. Q. Your level of confidence, with respect to the 1 1 2 numbers submitted, how would you describe your 2 Q. And the Granite Canal project, for which you 3 3 were directly responsible, \$135 million level of confidence for that cost estimate project, did that come in on budget and on 4 versus other estimates we have put before this 4 5 Board? schedule? 6 MR. HAYNES: 6 MR. HAYNES: 7 7 A. We are still on budget with that project, and A. Very confident. Q. Hydro regularly reports to the Board. What 8 still on--and was on schedule. 8 9 has its experience been with respect to Q. And that was done to a functional 9 changes in scope and changes in exceeding the specification? 10 10 11 capital cost estimate? 11 MR. HAYNES: A. Yes. Obviously when you go out and build a 12 MR. HAYNES: 12 project of that size, which included by the 13 A. Changes of scope are extremely rare. 13 way a communication system, a microwave Basically occasionally it happens, but it's 14 14 communication system, very comprehensive 15 very rare. On the cost estimates, generally 15

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21 MR. HAYNES:

speaking, we bring most projects in, certainly 16

on the bottom line, fairly close to the

18 estimate. In cases, we have actually been

under a bit. The number of times that we go

20 over is rare.

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21 Q. So would the Board be able to take comfort by

looking at Hydro's past experience with

respect to its ability to bring a project in 23

24 certainly within the budget?

25 MR. HAYNES:

really almost go to the capital budget process review and when a utility reports back on a

project that all came in on budget.

estimate that's before this Board?

A. No, none whatsoever.

Q. Do you have any reason, at this point in time,

as the executive responsible for Hydro, to

question with any degree of uncertainty the

Q. Now looking at some of the questions, which

Page 101 - Page 104

$\simeq$	10001 0, 2004	-1 6	age NL Hydro's 2005 Capital Dudget Application
	Page 105		Page 106
1	GREENE, Q.C.:	1	project, \$8.4 million, this just includes the
2	change in the scope, as you've indicated,	2	cost of the installation, the training of
3	Hydro, it's rare for there to be a change in	3	staff?
4	the scope of the project?	4	MR. HAYNES:
5	MR. HAYNES:	5	A. When weit is common that when we buy a new
6	A. Yes.	6	system, the initial training is usually a part
7	Q. If there's a change in the scope of the	7	of the contract. So there is some training
8	project in a significant way, does it require	8	element in this particular capital budget, and
9	the approval of the Board of Directors of	9	that's not unusual, for the initial training.
10	Hydro?	10	It doesn't cover obviously recurrent training
11	MR. HAYNES:	11	that happens in two years, five years,
12	A. Yes, it does.	12	whatever, but the initial training is a part
13	Q. And we have reportedwe have not had occasion	13	of the package.
14	to report those to the Board because we have	14	Q. Okay. There was reference, I noticed in one
15	had none in the last number of years, have we?	15	of your slides, to users and you mentioned
ı	MR. HAYNES:	16	Abitibi's name, which struck me, and I haven't
17	A. I don't believe there have been any of any	17	heard them and mobile radio connect. Has
18	consequence whatsoever.	18	there been any discussions with them vis-a-
19	Q. Those are all the questions that I have in	19	visassume they must have a mobile radio
20	redirect.	20	system and -
ı	CHAIRMAN:		MR. DUNPHY:
22	Q. Thank you, Ms. Greene. Commissioner Powell,	22	A. We understand they have a mobile radio system
23	do you have any questions?	23	that they use for their woods operations.
ı	COMMISSIONER POWELL:	24	Q. Is there any discussions with any of the
25	Q. Just a couple of items. Mr. Haynes, this	25	Industrial Customers about them taking
20	Q. Just a couple of ficins. Wif. Haynes, this	23	muusutat Customets about mem taking
23		23	<del>-</del>
	Page 107		Page 108
1	Page 107 advantage of yours to help reduce theirthey	1	Page 108 partnership with you, you wouldn't be opposed
1 2	Page 107 advantage of yours to help reduce theirthey have a emphasis on cost reduction, so -	1 2	Page 108 partnership with you, you wouldn't be opposed to investigating that?
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	Page 109		Page 110
	1 COMMISSIONER POWELL:	1	Q. Yes. No, you sort of covered it off. I was
	it may be, to use the expression, the cheapest	2	trying to, myself, balancing and being an
	way for Hydro to repair a line?	3	accountant and saying okay, if I were to put
	4 MR. HAYNES:	4	my bottom line, that I probably wouldn't have
	5 A. The overall reliability at your meter socket,	5	a mobile system, I could do it. But from my
	for instance, I mean, relies on a multitude of	6	
	7 different things that we do. It relies on us	7	shrink because they don't have their power to
	planning the generation appropriately, doing	8	run their whatever.
	9 the right system dispatch from our control	9	MR. HAYNES:
1	centre, or responding to outages and faults	10	A. Yes, and that would also apply to the
1	and the things that Mr. Martin mentioned on	11	commercial customers.
1	the wood pole lines and other projects. So	12	Q. Yes.
	this, you know, the VHF radio project allows	13	MR. HAYNES:
	4 us to contribute to the overall reliability of	14	A. And the household customers as well, for
1	5 the system to all customers. So it is, and	15	financial considerations.
1	6 what we looked at, from a least cost point of	16	Q. Just one, you mentioned, I guess, to Mr.
1	view, was what is the most cost effective way	17	Kennedy, the technology, one of you mentioned,
1	8 for us to provide this service to our	18	a year today is a lifetime in technology. You
	9 operating staff, and it's the reliability of	19	read now about one time just trying to put two
1	this system which also contributes to the	20	different technologies on one pole was an
	reliability at the meter socket. The meter	21	impossibility, and then the ability to have
	socket view as I would refer to it sometimes.	22	multi things on poles came about. Now you
	It contributes to less outages and when there	23	read about having one line having multiple
1	is an outage, to a more timely restoration of	24	technologies going through it, in terms of
	service. I don't know if that answers your -	25	putting power, voice, data all through the
H	Page 111		Page 112
		1	don't know, but you have a thing, accountant's
1	same line. Is that an option, I mean, being explored? When you're putting out your	2	language, but you may have a more narrow
1	request for proposals, I mean, and technology	3	straight jacket than what you envision. So
1	4 is that an open endedwhen you request	$\begin{vmatrix} 3 \\ 4 \end{vmatrix}$	what I gather is that when you lookyou're
1	5 proposals and you say you haven't decided on	5	looking, you want a communication system that
1	6 your technology, is that an open ended, in	6	satisfies all the specs, but how they deliver
1	terms of vendors being able to be ahead of the	7	it, you'll leave that up to them and then
1	8 crowd, so to speak?	8	you'll judge it, whether that fits?
1	9 MR. DUNPHY:		MR. HAYNES:
1	0 A. I'm not quite sure if I understand the	10	A. Yes, I believe that's correct.
1	question, but I guess part of the reason we	11	Q. Those are all the questions I have, Chair.
1	believe the functional specification is the	12	Thank you very much.
1	most appropriate way to go is because there		CHAIRMAN:
1	4 are technology changes and there'sdo develop	14	Q. Commissioner Martin?
	5 new systems or new ways of doing things that		COMMISSIONER MARTIN Q.C.:
1	6 may meet our requirements that will change	16	Q. No.
1	7 from time to time, and so if I understand your		CHAIRMAN:
	question correctly, we certainly try to	18	Q. Mr. Dunphy, I'm just wondering ifI think
	9 structure these types of things so that they	19	you've referenced the phrase catastrophic
1	are as flexible as possible in the longer	20	failure of the system. When you refer to a
1	term. We try and keep a long-term view when	21	catastrophic failure, is that relegated to the
1	we do these things. Did that answer your	22	switch?
1	question?		MR. DUNPHY:
	4 (12:00 p.m.)	24	A. If the switch fails, then the system itself
	25 Q. Yes, definitely. Just I know enough to know I	25	will cease to function.
	· · · · · · · · · · · · · · · · · · ·	1	

1 CHARMAN: 2 Q. I appreciate that, but is the term 3 catastrophic failure of the system, you know, 4 would that be relegated to the switch? 5 MR. DINPHY: 6 A. Yes. 7 Q. You know, what would be another example of a 8 catastrophic failure? 9 MR. DINPHY: 10 A. Yes, that would be the only catastrophic failure of the entire system. If a site controller fails, and if you recall the photograph that it showed of the site in that would only affect that individual iocation. 10 Q. Indicate you've depleted—you haven't depleted your spare parts for the switch at this particular point in time, but practically speaking, it's depleted. 21 MR. DUNPHY: 22 A. Practically speaking, as far as we're 23 concerned, yes, it is depleted. We don't know 24 the condition of those spares. 22 MR. DUNPHY: 23 C. A. Cractically speaking, as far as we're 25 Q. Again, no way to test them at all? 24 MR. DUNPHY: 25 A. No. 26 The controller at our particular reported to in the condition of those spares. 26 Q. Again, no way to test them at all? 27 MR. DUNPHY: 28 A. No. 9 O. So I mean, you're involved with putting up your repeaters and -1 MR. DUNPHY: 19 A. No. 9 O. So I mean, you're involved with putting up your repeaters and -1 MR. DUNPHY: 19 A. Yes. 10 MR. DUNPHY: 21 A. I's a difficult question to answer. We certainly the fire of any projected system. We're hoping to get 15 years from it, from a new system. 15 Was DUNPHY: 16 MR. DUNPHY: 17 A. MR. DUNPHY: 18 A. No. 19 C. Practically speaking, as far as we're and the condition of those spares. 20 Q. Again, no way to test them at all? 21 MR. DUNPHY: 22 A. Yes. 23 Construction in 2005 that you referred to in that would fall within that term, construction? 24 MR. DUNPHY: 25 Was DUNPHY: 26 MR. DUNPHY: 27 MR. DUNPHY: 28 A. No. 29 Construction in 2005 that you referred to in the c2-9, can you give me an example of what would be dead of the convertion of the cate of	1	D 112	Ť	D 114
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7 Q. You know, what would be another example of a catastrophic failure? 8 MR. DINPHY: 10 A. Yes, that would be the only catastrophic failure of the entire system. If a site controller fails, and if you recall the 12 controller fails, and if you recall the 13 photograph that it showed of the site controller at our particular repeater site, 15 that would only affect that individual 16 location. 16 Q. Indicate you've depleted—you haven't depleted 18 your spare parts for the switch at this 19 particular point in time, but practically speaking, it's depleted? 19 MR. DUNPHY: 20 Spacking, it's depleted? 21 MR. DUNPHY: 22 A. Practically speaking, as far as we're 23 concerned, yes, it is depleted. We don't know 24 the condition of those spares. 24 D. Q. Construction in 2005 that you referred to in 18 the 2.9, can you give me an example of what 24 would fail within that term, construction? 25 You're not putting up new towers and what have you. 26 You. 27 MR. DUNPHY: 28 A. No. 29 Q. So I mean, you're involved with putting up your repeaters and - 11 MR. DUNPHY: 29 A. Yes, that would—well, one of Mr. Kennedy's questions was about, you know, we would actually replace the system, and there are two implementation whereby two systems would operate in parallel or one of the alternatives that was identified in the RT is to address if the resisting one. So yes, that 2.9 million quelling that the project was approved, we'd certainly look at assuming that the project was approved, we'd certainly look at any system that we'd communication. 29 Q. You don't have a current contingency plan or any system that you've indicated. 20 possibly in repeater site. 21 MR. DUNPHY: 22 A. Practically speaking as far as we're 25 manufacturer will stand by is often difficult unamufacturer will stand by is often difficult or manufacturer will stand by is often	5	MR. DUNPHY:	5	A. Yes.
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25 Q. If the VHF radio system were approved, as you 25 that, you know, it's not a question of whether	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Construction in 2005 that you referred to in the 2.9, can you give me an example of what would fall within that term, construction? You're not putting up new towers and what have you.</li> <li>MR. DUNPHY: <ul> <li>A. No.</li> <li>Q. So I mean, you're involved with putting up your repeaters and -</li> </ul> </li> <li>MR. DUNPHY: <ul> <li>A. Yes, that wouldwell, one of Mr. Kennedy's questions was about, you know, how we would actually replace the system, and there are two ways to do it. There's a phased implementation whereby two systems would operate in parallel or one of the alternatives that was identified in the RFI is to address if there's any way to put in the new switch first, so that we'd decrease the reliance on the existing one. So yes, that 2.9 million would include, you know, installation of equipment in some fashion, either switches or possibly in repeater sites.</li> </ul> </li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	present it in his particular budget, you know, if there were a catastrophic failure of the current system in like six months or what have you, what would be the impact and how would that be dealt with?  MR. DUNPHY:  A. Well, I think the impact would be overall that, you know, we'd certainly be less efficient in our operations. If the system failed totally and we could not bring it back, we'd certainly look at-assuming that the project was approved, we'd certainly look at any ways within the system being supplied that could mitigate that problem. I'm not quite sure what we would do in the event that the system failed and we know, you know, we had no communications. Obviously we would have to equip people with an inferior form of communication.  Q. You don't have a current contingency plan or anything like that?  MR. DUNPHY:  A. We don't. No, we don't have a - Q. I mean, given the fact that you've indicated

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1 CHAIRMAN:	obviously be handicapped for the interim
2 the system will fail, but when it will fail, I	2 period while it's being replaced or repaired.
3 mean, what's in place at the moment to deal	3 So we will continue to operate. We would
4 with that type of situation?	4 anticipate that outages will be a little bit
5 MR. DUNPHY:	5 extended, if we get into emergency situations,
6 A. Yes. No, we haven't developed a written	6 and I would like to add a littleone slight
7 contingency plan at this point.	7 thing to Gerard's response, that if we had
8 Q. That's all the questions I have. Thank you.	8 awarded a tender and there was a catastrophic
9 Do either of the parties have any questions	9 failure, our only remedy is to go back and to
arising out of the Board's inquiry?	get the vendor to expedite that and that would
11 GREENE, Q.C.:	be at a cost obviously. His proposal is based
12 Q. I just wanted one follow up, and I guess it's	on, I presume, you know, his shop time and so
for Mr. Haynes or Mr. Downton. Mr. Dunphy	on. If we were to go back and to fast track
just said we have no written contingency plan,	that process, fast tracking would actually
but what would happen in the event of a system	cost us additional monies. But from a
failure and how would operations respond to	contingency point of view, it's satellite, VHF
that, Mr. Haynes?	and just a slower response and slower getting
18 MR. HAYNES:	permits out, getting lines fixed. There is no
19 A. If there was a catastrophic failure of the	alternative, you know. There is no functional
system, obviously we would rely on cell phones	alternative out there to the VHF radio system
and satellite phones to the extent that we	in the areas we operate.
have them, and probably acquire some more to	22 Q. So it would be a matter of additional cell
do it. It wouldthat's not what we're	phone coverage where possible and the other
that's not a satisfactory replacement for the	thing would be more travel between crews, so
25 VHF. That would provide uswe would	25 they can communicate what is ongoing and more
Page 119	Page 120
time in responding to the energy control	Canada, and I believe the letter will be self-
2 centre?	2 explanatory in providing further detail into
3 MR. HAYNES:	3 the response by the witness on why that's
4 A. That's correct.	4 potentially not workable, if you will, for
5 Q. So there would be an impact on operations, but	5 Hydro because of the common carrier status
6 we would still be able to deliver power?	6 that Hydro would end up acquiring by virtue of
7 MR. HAYNES:	7 an arrangement with a private entity like
8 A. Yes, but we would be impaired from responding	8 that.
9 as we would prefer to, as we need to really.	9 CHAIRMAN:
10 Q. That's the only thing I had arising. Thank	Q. Thanks, Mr. Kennedy. Thank you, gentlemen.
11 you, Mr. Chair.	Who'd be your next witness, Ms. Greene?
12 CHAIRMAN:	12 GREENE, Q.C.:
13 Q. Thank you. Mr. Hayes?	Q. Mr. Chair and Commissioners, our next area to
14 MR. HAYES:	be covered are the remaining IS&T projects,
15 Q. None arising, Mr. Chair.	other than the radio. So this is where Mr.
16 CHAIRMAN:	Dunphy gets excused and he can now enjoy his
17 Q. Mr. Hutchings?	Thanksgiving weekend coming up, and we have
18 HUTCHINGS, Q.C.:	Mr. Nichols to join the panel. Mr. Downton
19 Q. Nothing, thank you, Mr. Chair.	and Mr. Haynes stay, and they're hoping that
20 MR. KENNEDY:	20 they get to enjoy their Thanksgiving weekend
Q. Chair, just wanted to point out, for the	too, and they may be finished. So I would
benefit of Commissioner Powell, related to a	suggest, if it's convenient, possibly just a
23 question concerning the participation of	five-minute break to allow the exchange of the
Abitibi. There is an RFI. It's PUB-7, which	24 people there.
25 has attached to it a letter from Industry	

CHARMAN: 2 Q.Okay: 3 GRENR, Q.C.: 4 Q. Or we can carry on. It's really up to you. 5 GRENR, Q.C.: 4 Q. No. perhaps we'll take a break. It's 10 a fier. This next panel - 8 GRENR. Q.C.: 9 Q. Will be very short, from my perspective. We have no presentations. I have to qualify Mr. 11 Nichols, and we have very short direct, we have no presentations. I have to qualify Mr. 12 Q. And we have very short direct, we have no presentations. I have to qualify Mr. 13 Nichols, and we have very short direct, we have no presentations. I have to qualify Mr. 14 Nichols, and we have very short direct, we have no presentations. I have to qualify Mr. 15 Michols, and we have very short direct, we have. 16 Q. Can you state your full name for the record, 17 (RESUME - 1229 p.m.) 18 MR. ANGUS NICHOLS (SWORN) 19 CHARMAN: 18 Q. Can you state your full name for the record, 19 please? 2 MR. NICHOLS: 22 MR. NICHOLS: 22 MR. NICHOLS: 22 MR. NICHOLS: 23 A. Angus Nichols. 24 CHARMAN: 25 Q. And Mr. Haynes and Mr. Downton, you're still 2 projects. 2 Q. And what positions have you held during your a career at Hydro? 4 MR. NICHOLS: 2 MR. NICHOLS: 2 MR. NICHOLS: 2 MR. NICHOLS: 3 A. During my time with Hydro, I've worked in the felecontrol department as a control systems programmer. In 1985, I went with the MIS department, at that time, and was a systems programmer. From there, I went to a senior systems analyst in the MIS department. In the 19 year 2000, I was appointed manager of technology planning and project delivery. 16 MR. Downtons: 17 MR. Haynes. 18 A. During my time with Hydro, I've worked in the telecontrol department and the MIS department. 1985, I went with the MIS department, at that time, and was a systems programmer. From there, I went to a senior systems analyst in the MIS department. In the 19 year 2000, I was appointed manager of technology planning and project delivery. 19 MR. Downton? 19 MR. Downton. 19 MR. Downton. 20 Q. And Mr. Nichols, in the witness	October 8, 2004 Mu	tti-Page NL Hydro's 2005 Capital Budget Application
2 Q. Okay. 3 GREENE, Q.C.: 4 Q. Or we can carry on. It's really up to you. 5 CHAIRMAN. 6 Q. No, perhaps we'll take a break. It's 10 7 after. This next panel - 8 GREENE, Q.C.: 10 A, Or we can carry on. It's really up to you. 2 GREENE, Q.C.: 3 Q. Will be very short, from my perspective. We lo have no presentations. I have to qualify Mr. 1 Nichols, and we have very short direct, we lave. 1 CHAIRMAN. 1 Q. Well, we'll probably take at least at 10-minute break in any event. Thank you. 1 (RESUME - 12:24 p.m.) 1 MR. AAGUS NICHOLS (SWORN) 1 please? 2 MR. NICHOLS: 2 A. Angus Nichols. 2 Q. Can you state your full name for the record, please? 2 MR. NICHOLS: 3 A. Angus Nichols. 4 A. T've been with Hydro 22 years. 4 Q. And what positions have you held during your a career at Hydro? 4 MR. NICHOLS: 5 A. During my time with Hydro, I've worked in the telecontrol department as a control systems programmer. From there, I went to a senior systems analyst in the Mis department. 5 A. During my time with Hydro, I've worked in the telecontrol department as a control systems programmer. From there, I went to a senior systems analyst in the Mis department. 5 A. During my time with Hydro, I've worked in the telecontrol department as a control systems programmer. From there, I went to a senior systems analyst in the Mis department. 5 A. During my time with Hydro, I've worked in the telecontrol department as a control systems programmer. From there, I went to a senior systems analyst in the Mis department. 5 A. During my time with Hydro, I've worked in the telecontrol department as a control systems programmer. From there, I went to a senior systems analyst in the Mis department. 6 And in 2003, I was appointed manager of computer operations with the amalgamation of the telecontrol department and the Mis department. 6 And in 2003, I was appointed manager of toemputer operations with the amalgamation of the telecontrol department and the with septicle that was filed for you, it is indicated that you as a graduated from Memorial University in	Page 12	Page 122
3 Q. Thank you, Mr. Chair. At this time, I'm just going to introduce Mr. Nichols and get him to give a little bit of his background. You've already heard about Mr. Haynes and Mr. Pownton, Mr. Nichols, what is your current position with Hydro? Q. Will be very short, from my perspective. We have no presentations. I have to qualify Mr. Nichols, and we have very short direct, we have. Power operations with the analysmation of the technology planning and project delivery. Am. Nichols.  13 CHARMAN: Q. And What positions have you held during your a career at Hydro?  14 Q. And Mr. Haynes and Mr. Downton, you're still programmer. From there, I went to a senior systems analyst in the Mis department. In the relecontrol department and the Mis department. And in 2003, I was appointed manager of technology planning and project delivery. Control systems with the amalgamation of the technology planning and project delivery. Control systems with the amalgamation of the technology planning and project delivery. Control systems and yst in the Mis department. In the was filed for you, it is indicated that you graduated from Memorial University in 1981 with a Bachelor of Science degree in Computer Science. Is that correct?  10 Q. Thank you, Mr. Chair. At this time, I'm just going to introduce Mr. Nichols, was already heard about Mr. Haynes and Mr. Downton Mr. Nichols in the technology planning and project delivery. And the position with Hydro?  2 Q. Cand what a vec call the INSET of technology planning and project delivery. Control department and the Mis department. And in 2003, I was appointed manager of the technology planning and project delivery. Control separation of the technology planning and project delivery. Control separation of the technology planning and project delivery. Control separation of the technology planning and project delivery. Control separation of the technology planning and project delivery. Control separation of the technology planning and project delivery. Control separation of the technology planning an	1 CHAIRMAN:	1 under oath.
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S CHARMAN:   5   give a little bit of his background. You've already heard about Mr. Haynes and Mr.   7   Downton. Mr. Nichols, what is your current   8   Mr. Andrews were well take a break. It's 10   7   Downton. Mr. Nichols, what is your current   8   Mr. Nichols, and we have very short direct, we have no presentations. I have to qualify Mr.   11   Nichols, and we have very short direct, we have no presentations. I have to qualify Mr.   12   Ammander of the wines programmer in the place of the position with Hydro is manager of   11   technology, planning and project delivery.   12   A. My current position with Hydro is manager of   12   A. My current position with Hydro is manager of   13   technology, planning and project delivery.   14   Mr. NICHOLS:   15   A. That is correct.   16   Q. And what are the responsibilities of your   17   current position?   18   Mr. NICHOLS:   18   A. The current responsibilities of my position is   18   That is correct.   19   A. The current responsibilities of my position is   18   That is correct.   19   A. The current position?   18   Mr. NICHOLS:   19   A. The current position with Hydro is manager of   10   C. And what are the responsibilities of your   19   C. And what are the responsibilities of your   18   Mr. NICHOLS:   19   A. The current position with Hydro   19   A. The current position with Hydro   19   A. The current position with Hydro   10   A. My current position with Hydro is manager of   11   technology, planning and project delivery.   16   A. And in position with Hydro   18   Mr. NICHOLS:   18   Mr. NICHOLS:   19   A. The current position with Hydro   19   A. The current position with Hydro   19   A. The current position with Hydro   10   A. The current position with Hydro   10   A. The current po	3 GREENE, Q.C.:	3 Q. Thank you, Mr. Chair. At this time, I'm just
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after. This next panel -  8 GRIENE, Q.C.  9 Q. Will be very short, from my perspective. We have no presentations. I have to qualify Mr.  10 Nichols, and we have very short direct, we have.  12 CHAIRMAN:  13 CHAIRMAN:  14 Q. Well, we'll probably take at least at 10-  15 minute break in any event. Thank you.  16 (BREAK + 1209 p.m.)  17 (RESUME - 1224 p.m.)  18 MR. ANGUS NICHOLS (SWORN)  19 CHAIRMAN:  20 Q. Can you state your full name for the record, 21 please?  21 A. Angus Nichols.  22 GHAIRMAN:  23 A. Angus Nichols.  24 CHAIRMAN:  25 Q. And Mr. Haynes and Mr. Downton, you're still  7 Trojects.  26 Q. And what positions have you held during your 3 career at Hydro?  3 Career at Hydro?  4 MR. NICHOLS:  7 pogrammer. In 1985, I went with the MIS department. In the 6 telecontrol department as a control systems 9 programmer. From there, I went to a senior systems analyst in the MIS department. In the 11 year 2000, I was appointed manager of computer 20 operations with the amalgamation of the telecontrol department and the MIS department. In the 11 telecontrol department and the Mis department. In the 11 year 2000, I was appointed manager of technology planning and project delivery.  18 MR. NICHOLS:  19 A. That is correct.  20 Q. And what position with Hydro 22 years.  21 projects.  22 (D. And what positions have you held during your of received the project descriptions for the 15 telecontrol department and the MIS department. In the 11 year 2000, I was appointed manager of computer 20 operations with the amalgamation of the telecontrol department and the MIS department. In the 31 telecontrol department and the MIS department. In the 32 telecontrol department and the MIS department. In the 34 telecontrol department and the MIS department. In the 35 technology planning and project delivery.  10 Q. And Mr. Nichols, in the witness profile that was filed for you, it is indicated that you 35 technology planning and project delivery.  10 Q. And Mr. Nichols, in the witness profile that was filed for you, it is indicated that	5 CHAIRMAN:	5 give a little bit of his background. You've
8 GRIEENE, Q.C.: 9 Q. Will be very short, from my perspective. We have no presentations. I have to qualify Mr. Nichols, and we have very short direct, we labeled to have. 12 have. 13 CHAIRMAN: 14 Q. Well, we'll probably take at least at 10-15 minute break in any event. Thank you. 16 (BREAK - 12:90 p.m.) 17 (RESUME - 12:24 p.m.) 18 MR. ANGUS NICHOLS (SWORN) 19 CHAIRMAN: 19 Q. Can you state your full name for the record, 21 please? 22 MR. NICHOLS: 23 A. Angus Nichols. 24 CHAIRMAN: 25 Q. And Mr. Haynes and Mr. Downton, you're still 24 CHAIRMAN: 25 Q. And what positions have you held during your 3 career at Hydro? 4 MR. NICHOLS: 5 MR. NICHOLS: 25 MR. NICHOLS: 26 MR. NICHOLS: 27 Q. And what positions have you held during your 3 career at Hydro? 4 MR. NICHOLS: 5 A. During my time with Hydro. I've worked in the 6 telecontrol department as a control systems programmer. In 1985, I went with the MIS department. In the year 2000, I was appointed manager of telecontrol department as a control systems programmer. From there, I went to a senior systems analyst in the MIS department. In the year 2000, I was appointed manager of telecontrol department and the MIS department. In the year 2000, I was appointed manager of telecontrol department and the MIS department. In the wite letecontrol department and the MIS department. In the was filed for you, it is indicated that you graduated from Memorial University in 1981 with a Bachelor of Science degree in Computer Science. Is that correct? 19 MR. DOWNTON: 10 A. Yes, they were. 19 MR. DOWNTON: 10 A. Yes, they were. 19 MR. DOWNTON: 20 A. Yes, I do. 21 MR. NICHOLS: 21 A. That is correct. 22 A. Yes, I do. 23 C. This panel will be talking about the IS&T d. A. Hat is eartied that you graduated from Memorial University in 1981 and project that are listed on pages A-9 and A-10 4 A. Pys, I do. 2 This panel will be talking about the IS&T d. A. Pys, I do. 2 This panel will be talking about the IS&T d. A. Pys, I do. 2 This panel will be talking about the IS&T d. A. Pys, I do. 2 This panel w	6 Q. No, perhaps we'll take a break. It's 10	6 already heard about Mr. Haynes and Mr.
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12   have.   13   CHARMAN:   14   Q. Well, we'll probably take at least at 10-   15   minute break in any event. Thank you.   16   (BREMA 1:209 p.m.)   16   (RESUMF - 12:24 p.m.)   17   (RESUMF - 12:24 p.m.)   18 MR. ANGUS NICHOLS (SWORN)   19 CHAIRMAN:   19 CHAIRMAN:   19 CHAIRMAN:   19 CHAIRMAN:   19 Dease?   12   17 please?   12   18 MR. NICHOLS:   19 A. The current responsibilities of my position is   17 for developing, establishing, the corporate IT   17 strategy policy and also the delivery of all   17 projects.   21 please?   21 in projects.   22 in projects.   23 Q. And Mr. Haynes and Mr. Downton, you're still   22 in projects.   23 Q. And Mr. Haynes and Mr. Downton, you're still   24 NR. NICHOLS:   25 Q. And Mr. Haynes and Mr. Downton, you're still   26 MR. NICHOLS:   27 MR. NICHOLS:   28 MR. NICHOLS:   29 MR. NICHOLS:   29 MR. NICHOLS:   29 MR. NICHOLS:   20 MR. NICHOLS:   20 MR. NICHOLS:   21 mobile radio project, as we've already talked   20 about that project. For the three gentlemen   21 department, at that time, and was a systems   21 projects, as listed on page A-9 prepared   22 department, at that time, and was a systems   24 projects in the MIS department. In the   24 year 2000, I was appointed manager of tot echology planning and project delivery.   25 Q. And Mr. Nichols, in the witness profile that   26 WR. NICHOLS:   27 MR. HAYNES:   28 A. Yes, they were.   29 Q. And Mr. Nichols, in the witness profile that   28 WR. NICHOLS:   29 MR. DOWNTON:   20 A. Yes, I do.   21 MR. NICHOLS:   20 A. Yes, I do.   22 A. Yes, I do.   22 A. Yes, I do.   23 Q. Thank you, Mr. O'Rielly. If we look at page   24 A. Py, the first heading that we see there under   24 A. Py, the first heading that we see there under   25 MR. NICHOLS:   25 MR. NICHOLS:   26 MR. NICHOLS:   27 MR. NICHOLS:   27 MR. NICHOLS:   28 MR. NICHOLS:   29 MR. DOWNTON:   29 MR. DOWNT	have no presentations. I have to qualify Mr.	10 A. My current position with Hydro is manager of
13   CHAIRMAN:   14   Q. Well, we'll probably take at least at 10-15 minute break in any event. Thank you.   15	•	
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20 Q. Can you state your full name for the record, please? 21 please? 22 MR. NICHOLS: 23 A. Angus Nichols. 24 CHAIRMAN: 25 Q. And Mr. Haynes and Mr. Downton, you're still 26 Page 123 1 A. I've been with Hydro 22 years. 2 Q. And what positions have you held during your 3 career at Hydro? 4 MR. NICHOLS: 5 A. During my time with Hydro, I've worked in the telecontrol department as a control systems 7 programmer. In 1985, I went with the MIS department, at that time, and was a systems 9 programmer. From there, I went to a senior 10 systems analyst in the MIS department. In the telecontrol department and the MIS department. In the manager of technology planning and project delivery.  10 Q. And Mr. Nichols, in the witness profile that was filed for you, it is indicated that you graduated from Memorial University in 1981 with a Bachelor of Science degree in Computer Science. Is that correct?  20 Science. Is that correct?  21 MR. NICHOLS: 22 A. Yes, I do. 23 Q. This panel will be talking about the IS&T pojects, as trade you been with Hydro, Mr. Nichols? 25 MR. NICHOLS: 24 MR. NICHOLS: 25 MR. NICHOLS: 26 A. Yes, I do. 27	18 MR. ANGUS NICHOLS (SWORN)	18 MR. NICHOLS:
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16 Q. And Mr. Nichols, in the witness profile that 17 was filed for you, it is indicated that you 18 graduated from Memorial University in 1981 19 with a Bachelor of Science degree in Computer 20 Science. Is that correct? 20 A. Yes, I do. 21 MR. NICHOLS: 22 A. That is correct. 23 Q. This panel will be talking about the IS&T 24 projects that are listed on pages A-9 and A-10 25 the purpose of this hearing? 26 This purpose of this hearing? 27 MR. HAYNES: 28 A. Yes. 29 A. Yes, I do. 20 A. Yes, I do. 21 MR. NICHOLS: 22 A. Yes, I do. 23 Q. Thank you, Mr. O'Rielly. If we look at page 24 A-9, the first heading that we see there under	1	
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20 Science. Is that correct? 21 MR. NICHOLS: 22 A. That is correct. 23 Q. This panel will be talking about the IS&T 24 projects that are listed on pages A-9 and A-10 20 A. Yes, I do. 21 MR. NICHOLS: 22 A. Yes, I do. 23 Q. Thank you, Mr. O'Rielly. If we look at page 24 A-9, the first heading that we see there under	1	
21 MR. NICHOLS: 22 A. That is correct. 23 Q. This panel will be talking about the IS&T 24 projects that are listed on pages A-9 and A-10 25 MR. NICHOLS: 26 A. Yes, I do. 27 Q. Thank you, Mr. O'Rielly. If we look at page A-9, the first heading that we see there under	1	
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projects that are listed on pages A-9 and A-10 24 A-9, the first heading that we see there under		
	123 O This panel will be talking about the IS&T	23 O Thank you Mr O'Rielly If we look at page
25 of the application, with the exception of the 25 the bigger heading of Information Systems and	projects that are listed on pages A-9 and A-10	A-9, the first heading that we see there under

October 8, 2004 Page 125 1 GREENE, O.C.: Telecommunications is software applications, and the first project that is underneath that 3 one is the energy management system, where the 4 Board has already approved \$3.1 million and we 5 6 are requesting approval for \$5.5 million for 7 the continuation of that project. Mr. Downton, would you please describe what that 8 project is for the Board? 10 MR. DOWNTON: A. Yes. What's being proposed for 2005 is the 11 continuation of the project. It will be the 12 third year of the project to replace the 13 energy management system. The energy 14 management system is the computer system and 15 16 the software applications which support the energy management system. As noted, the 17 project completion has changed from February 18 2006 to June 2006. It was decided to put some 19 additional time into what we call the planning 20 phase of the project, which was really the 21 contract preparation, to ensure that Hydro 22 23 received the best possible technical solution and thus, the best financial price as well. 24 The contract was signed in June 2004. At 25

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to provide functionality, which these new application enhancements will provide.

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Hydro does not proceed with any upgrades, skips over a lot of upgrades sometimes, so we don't upgrade on a--you know, every time that a new release comes out, we don't upgrade. We have a policy of where we look at the business requirements. We look at the operating system, you know, that would have to be run to support those functionalities and things like that. So we really look at each one and see which ones should be done and which ones shouldn't be done. An example of this is in the application before you, the Help Desk software, which was installed in the year 2000, and we've run that system now for four years and we're now upgrading it to a Release 10, which we've skipped over two releases at this point in time, and it also has to be--it has to basically be done, also because it's not supported in the environment that we have at this point in time.

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- present, we have received the software 1 development system, which really is used to 2
- take the Hydro-specific information and thus 3 4
  - enable it to be put into the energy management
- system. We've also started extensive staff 5 training and the vendor has also started to 6
- build the system. 7
- Q. When will the project be complete?
- 9 MR. DOWNTON:

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- A. The project will be complete in June 2006.
- Q. The next two significant projects of page A-9 11 are applications enhancements and the 12 applications environment. What types of 13 projects would you typically find in these two 14 categories? 15

## 16 MR. NICHOLS:

A. The types of projects in these two categories 17 really is the applications environment upgrade 18 and really application enhancements. Hydro 19 expects, on an ongoing basis, to have these 20 requirements to keep our existing software 21 applications current, and so that would be the 22 ones in the applications environment 23 discussion. The upgrades are done to ensure 24 that we have vendor support and we also start 25

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this would be under that project is the KPI application where we are upgrading that. We are doing changes to that KPI site so basically to help the business make better decisions on their day-to-day basis and what not. The other thing that we do a lot with our technology is we reuse the technology that we already have in house and that KPI technology is going to be actually built on an application that we've had in place and we use for other things, and we will expand upon that one.

Another example I could give you in that project is the facilities modelling software, which is used to assist our--it's going to be used to assist our engineering staff in assessing the possible risk management strategies as related to the Hydro plant facilities. Another example of how we reuse our technology in this way is that application, when we looked at it, was actually going to be built on the same technology that we use for our KPI site, so that way we get leverage out of technology as far as we can, to get the most bang for the

The other aspect of these types of

enhancements for the business. An example of

applications is software applications

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	Page 129		Page 130
	MR. NICHOLS:	1	The first is listed there as the I series
1 2	buck, as one would say.	2	replacement, and here I wonder if you could
3	Q. And just to explain for the Commissioners,	3	describe that project, please?
4	you've mentioned KPI. That is short for Key	4	MR. NICHOLS:
4	performance indicator? Is that correct?	5	A. The I series server is the name for our AS 400
(	5 MR. NICHOLS:	6	line of computers which IBM makes. IBM has
1	A. Oh yes, yes. Yes, that's correct.	7	had a long history. They brought this machine
1	Q. And the key performance indicators are a new	8	out in 1988, I believe, as a system 36. They
و	regulatory requirement for Hydro? Is that	9	keep changing the name on it, and so it's gone
10	correct? That the Public Utilities Board has	10	from a system 36 to an AS 400 to now it's
1	asked Hydro to start reporting on key	11	called an I series machine.
12	performance indicators, as part of the last	12	This server is used to support our J.D.
13	General Rate Application?	13	Edwards application, which includes such
14	MR. NICHOLS:	14	functions as the financial, the materials
15	A. That is correct, and I believe there's seven	15	management and inventory, the HR payroll, the
10	altogether.	16	engineering and construction, the asset
17	Q. And this software application will allow us to	17	maintenance and customer service systems.
18	$\mathcal{E}$ ,	18	These applications are used on a day-to-day
19	so that we will be able to monitor and report	19	basis to do everything from paying suppliers
20	as required?	20	to running the payroll, to creating work
2	MR. NICHOLS:	21	orders for customer incidents, and to
22	A. That is correct.	22	answering questions by our customers on their
23	Q. Turning then to the next category, which is	23	electrical bills.
24	1 1 1	24	Another software that runs on that
25	under this main category I'd like to address.	25	machine is the reporting showcase tool called
	Page 131		Page 132
	Showcase, which is also supported on this	1	enterprise resource planning system, and what
	server, and this software is used by our	2	it does, it brings together a lot of, you
3	employees to produce reports from the J.D.	3	know, functions within a business together.
4	Edwards system on a day-to-day basis.	4	So basically, it's used for planning the work
1 4	This project proposes the replacement of	5	for the people out in the plant on a day-to-
(	the AS 400 server because of capacity	6	day basis. If there's a problem with a thing,
1	limitations that are adversely affecting	7	they would create a work order on that system
1	Hydro's ability to meet its business and	8	and then it would be used for them to plan
و	customer demands. To give example, we've	9	their work and get that work. It would also
10	suspendedwe've had to suspend the report	10	be used for our general ledger, accounts
1	writer on the system because we have to	11	payable, that type of thing.
12	basically get the customer billing, get the	12	Q. So it's everything from how the work gets
13	payroll actually to complete because of the	13	done, right up to paying suppliers, et cetera,
14	capacity problems on this machine, and also	14	isn't it?
15	another example, we've had to suspend report	15	MR. NICHOLS:
10	writing and queries on the system to get	16	A. That's correct.
17	customer billing systems to complete on time.	17	Q. And it has run into capacity problems? Is
18	- 71 11	18	that correct?
19	• 3	19	MR. NICHOLS:
20		20	A. That is correct.
12	that correct?	21	Q. The next project that I'd like to talk about
2			
22	2 MR. NICHOLS:	22	is the end-user Evergreen program. Could you
23 23 23	A. Yes. Back in 1999, '97, we started to install	22 23	is the end-user Evergreen program. Could you please describe that project, Mr. Nichols?
22	A. Yes. Back in 1999, '97, we started to install	1	• • • • • • • • • • • • • • • • • • • •

	Page 133		Page 134
	MR. NICHOLS:	1	Board? Is that correct?
2	A. This project is a continuous program of the		MR. NICHOLS:
3	replacement of the PC infrastructure, and one	3	A. That is correct.
4	of the things, this is the last year of a	4	Q. Go to page A-10, please, Mr. O'Rielly. This
5	replacement on a replacement which we've	5	page completes the listing of projects under
6	previously done in the past under a lease	6	IS&T. The first category there is called
7	arrangement. So this is the last year of	7	"Network services." Here, of course, we have
8	replacing machines that we had under lease,	8	the radio we've already dealt with, and there
9	and we do not own. As well as replacing the	9	is one other project, which is replace the
10	PCs at thatyou know, when we do this	10	operational data and voice network that's
11	project, we will also be replacing the	11	currently in progress, which is down there
12	operating system on the replacement units so	12	under upgrade of technology. Could you please
13	they will be brought up to the current	13	describe that project for the Commissioners,
14	revision, in order to ensure continued vendor	14	please?
15	support.	15	MR. NICHOLS:
16	In the first year, 2003, Hydro looked at	16	A. Yes. The operational data and voice network
17	three options and chose the least cost option	17	is the network which carries the data between
18	to deal with, which was the replacement of the	18	the energy management system and what we call
19	PCs under the lease program. In preparation	19	the RTUs or the computers that are in our
20	of the 2005 budget, we again reviewed Hydro's	20	various generating, transmission and
21	options and chose the least cost alternative,	21	distribution sites. Basically it provides
22	which was the continuation of the strategy	22	voice communications as well between the
23	that the Board approved in 2003 and 2004.	23	energy control centre, our various sites and
24	Q. So from Hydro's perspective, this is the third	24	also our major customers. This network is
25	year of a program already approved by the	25	critical to ensuring reliable service to our
	Page 135		Page 136
1	customers. The Board, in 2003, approved the	1	line item there, down towards the bottom
2	study for the replacement of this project.	2	that's fine, Mr. O'Rielly. Right there is
3	For 2005, we are proposing, in the second year	3	greatwhich indicates a cost recovery from
4	of the two-year project, that we see this	4	CF(L )Co of a portion of the total capital cost
5	project to completion, which entails the build	5	of this project. And I was wondering if
6	and implementation of that proposed in 2004.	6	somebody on the panel could explain for us how
7	Q. Thank you. That concludes our direct evidence	7	the appropriate level of cost recovery from
8	on this area.	8	CF(L )Co is determined?
1 0 1	CHAIRMAN:	9	MR. DOWNTON:
۱۶(	Q. Thank you, Ms. Greene. Mr. Hayes?	10	A. I guess to go back to your first comment, it's
10	MR. HAYES:	111	•
10		11	the same formula that's used for all three
10	Q. Thank you, Chair. I just have a couple of	12	the same formula that's used for all three projects.
10 11 M	Q. Thank you, Chair. I just have a couple of questions for the panel and they all relate to		the same formula that's used for all three projects.  Q. Okay. Well, in that case perhaps I can just
10 11 M 12	Q. Thank you, Chair. I just have a couple of questions for the panel and they all relate to the same essential topic, and that's with	12	the same formula that's used for all three projects.  Q. Okay. Well, in that case perhaps I can just reference the other two projects. The other
10 11 M 12 13	Q. Thank you, Chair. I just have a couple of questions for the panel and they all relate to the same essential topic, and that's with respect to the cost recovery from CF(L)Co of a	12 13 14 15	the same formula that's used for all three projects.  Q. Okay. Well, in that case perhaps I can just reference the other two projects. The other one is at B-125 and that's the project
10 11 M 12 13 14	Q. Thank you, Chair. I just have a couple of questions for the panel and they all relate to the same essential topic, and that's with respect to the cost recovery from CF(L)Co of a couple of projects. There are actually three	12 13 14	the same formula that's used for all three projects.  Q. Okay. Well, in that case perhaps I can just reference the other two projects. The other one is at B-125 and that's the project replacement for the I series replacement, and
10 11 M 12 13 14 15	Q. Thank you, Chair. I just have a couple of questions for the panel and they all relate to the same essential topic, and that's with respect to the cost recovery from CF(L)Co of a couple of projects. There are actually three projects in the capital budget that have that	12 13 14 15	the same formula that's used for all three projects.  Q. Okay. Well, in that case perhaps I can just reference the other two projects. The other one is at B-125 and that's the project replacement for the I series replacement, and B-132, which is the security strategy
10 11 M 12 13 14 15 16	Q. Thank you, Chair. I just have a couple of questions for the panel and they all relate to the same essential topic, and that's with respect to the cost recovery from CF(L)Co of a couple of projects. There are actually three projects in the capital budget that have that line item, and perhaps I could start with the	12 13 14 15 16	the same formula that's used for all three projects.  Q. Okay. Well, in that case perhaps I can just reference the other two projects. The other one is at B-125 and that's the project replacement for the I series replacement, and B-132, which is the security strategy deployment project. So for all of those, the
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10 11 1 12 13 14 15 16 17 18 19 20 21 22 23	Q. Thank you, Chair. I just have a couple of questions for the panel and they all relate to the same essential topic, and that's with respect to the cost recovery from CF(L)Co of a couple of projects. There are actually three projects in the capital budget that have that line item, and perhaps I could start with the first one, and if the explanation is the same for all three, then somebody could perhaps indicate that. Please, Mr. O'Rielly, if you could go to page B-124, and that's the project explanation for corporate applications	12 13 14 15 16 17 18 19 20 21	the same formula that's used for all three projects.  Q. Okay. Well, in that case perhaps I can just reference the other two projects. The other one is at B-125 and that's the project replacement for the I series replacement, and B-132, which is the security strategy deployment project. So for all of those, the formula is the same, is it?  MR. DOWNTON:  A. Yes.
10 11 M 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. Thank you, Chair. I just have a couple of questions for the panel and they all relate to the same essential topic, and that's with respect to the cost recovery from CF(L)Co of a couple of projects. There are actually three projects in the capital budget that have that line item, and perhaps I could start with the first one, and if the explanation is the same for all three, then somebody could perhaps indicate that. Please, Mr. O'Rielly, if you could go to page B-124, and that's the project explanation for corporate applications environment, and panel, you will note in the	12 13 14 15 16 17 18 19 20 21 22	the same formula that's used for all three projects.  Q. Okay. Well, in that case perhaps I can just reference the other two projects. The other one is at B-125 and that's the project replacement for the I series replacement, and B-132, which is the security strategy deployment project. So for all of those, the formula is the same, is it?  MR. DOWNTON:  A. Yes.  Q. Okay. Well perhaps, Mr. Downton, you'd like
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	Dags 127		Dags 129
١.	Page 137	١.	Page 138
1	MR. DOWNTON:		MR. NICHOLS:
2	3	2	A. I would just like to add also that that is
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4		4	, , , , , , , , , , , , , , , , , , ,
5	` '	5	1 3
6	1 1	6	1 &
7	1	7	11 3
8	,	8	MR. DOWNTON:
9	•	9	A. Yes, that is correct. This is only used for
10	1	10	
11		11	Q. Thank you. Those are all my questions for the
12		12	panel, Chair.
13	the rationale is behind that formula?	13	CHAIRMAN:
14	MR. DOWNTON:	14	Q. Thank you, Mr. Hayes. Mr. Hutchings?
15	A. Basically J.D. Edwards and Lotus Notes are	15	HUTCHINGS, Q.C.:
16	basically the two primary systems that are	16	Q. Mr. Coxworthy has a few items first, and then
17	used throughout the organization, and of	17	I'll carry on.
18	course, the PCs themselves. Everyone who's	18	CHAIRMAN:
19	connected to the network and accesses these	19	Q. Mr. Coxworthy.
20	applications would have a computer, whether it	20	MR. COXWORTHY:
21	be ait doesn't really matter what kind of	21	Q. Thank you, Chair. Good afternoon, gentlemen.
22	computer, whether laptop, desktop or thin	22	If we could turn to Project B-141, the
23	client. And so we basically looked at this	23	microwave site refurbishing under the network
24	will give us an idea of usage of the	24	services? And I wanted to start off by noting
25	applicationof the services by CF(L)Co.	25	in the project justification section, the
	Page 139		Page 140
1		1	work that will mitigate that and extend the
2		2	410
3		3	Q. So when you say that it is a 20-25 year
4		4	
5		5	specifically to the tower, the metal structure
6		6	
7		7	that has a design life of 20 to 25 years?
8			MR. DOWNTON:
9		9	A. The typical design life of these towers, yes,
10		10	is in that order.
1	MR. DOWNTON:	11	Q. And so the painting, is this a replacement of
12		12	
13		13	been applied to this tower when it was first
14		14	
15		15	structures when it was installed?
1	MR. DOWNTON:		MR. DOWNTON:
17		17	A. The tower originally came painted, as part of
18		18	
19	-	19	will determine if painting is appropriate and
20		20	significance of the painting on this is in the
21		21	order of about \$50,000.
22		22	Q. Is there a recommended practice with respect
23	•	23	
24	•	24	
2.	-	2.	eteratures like this exposed to the type of

25

structures like this, exposed to the type of

life. So what we are looking at here is to do

25

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Page 141	Page 142
1 MR. COXWORTHY:	1 A. Yes. Basically that was identified in 2002.
2 elements, of course, that they would be	2 Basically it was identified that we were
3 exposed to?	3 between level three and level four corrosion
4 MR. DOWNTON:	4 and I guess, on the advice of our structural
5 A. On the advise that we get from, I guess, our	5 engineer, he indicated that we should look at
6 structural engineers, they indicate that once	6 painting this tower within the next two years.
you get to what they consider to be a level	7 Q. This tower hasn't been previously repainted
8 four rusting. They basically look at one	8 since it was installed?
being low and five being high. They recommend	9 MR. DOWNTON:
that you initiate the paintor actually, it's	10 A. Not that I'm aware of.
a little bit more than just the paint because	11 Q. How much of the \$290,000 approximately is
you have to go and scrape. You also have to	comprised of this painting portion of the
touch up any places where the galvanization	13 project?
has deteriorated and apply the paint.	14 MR. DOWNTON:
Q. So the recommendation is you wait until it	15 A. I think I indicated, it's in the order of
gets to level four, then you applyyou do the	16 about \$50,000.
things you've just described, including	17 Q. Thank you. The galvanization of the anchor
painting?	heads, how much is that of the overall?
19 MR. DOWNTON:	19 MR. DOWNTON:
20 A. It is based on the judgment of the structural	20 A. That is somewhere in the area of about
21 engineer.	21 \$30,000.
22 Q. Have these towers or this particular tower, I	22 Q. And were they originally galvanized?
should say, reached that level four of	23 MR. DOWNTON:
24 rusting?	24 A. Yes, basically.
25 MR. DOWNTON:	25 Q. So this is regalvanization?
Page 143	Page 144
Page 143  1 MR. DOWNTON:	Page 144  far, is that basically attributable to the
1 MR. DOWNTON:	
1 MR. DOWNTON:	1 far, is that basically attributable to the
1 MR. DOWNTON: 2 A. It's a regalvanization -	far, is that basically attributable to the ordinary wear and tear to be expected on this
1 MR. DOWNTON: 2 A. It's a regalvanization - 3 Q. Is that a fair -	far, is that basically attributable to the ordinary wear and tear to be expected on this type of equipment, in the area that it's been
1 MR. DOWNTON: 2 A. It's a regalvanization - 3 Q. Is that a fair - 4 MR. DOWNTON:	far, is that basically attributable to the ordinary wear and tear to be expected on this type of equipment, in the area that it's been installed?
1 MR. DOWNTON: 2 A. It's a regalvanization - 3 Q. Is that a fair - 4 MR. DOWNTON: 5 A because of detected corrosion.	1 far, is that basically attributable to the 2 ordinary wear and tear to be expected on this 3 type of equipment, in the area that it's been 4 installed? 5 MR. DOWNTON:
1 MR. DOWNTON: 2 A. It's a regalvanization - 3 Q. Is that a fair - 4 MR. DOWNTON: 5 A because of detected corrosion. 6 Q. Is there a similar sort of level two, three,	1 far, is that basically attributable to the 2 ordinary wear and tear to be expected on this 3 type of equipment, in the area that it's been 4 installed? 5 MR. DOWNTON: 6 A. I guess when you look at the life expectancy,
1 MR. DOWNTON: 2 A. It's a regalvanization - 3 Q. Is that a fair - 4 MR. DOWNTON: 5 A because of detected corrosion. 6 Q. Is there a similar sort of level two, three, 7 four process that's gone through there?	1 far, is that basically attributable to the 2 ordinary wear and tear to be expected on this 3 type of equipment, in the area that it's been 4 installed? 5 MR. DOWNTON: 6 A. I guess when you look at the life expectancy, 7 yes.
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1 MR. DOWNTON: 2 A. It's a regalvanization - 3 Q. Is that a fair - 4 MR. DOWNTON: 5 A because of detected corrosion. 6 Q. Is there a similar sort of level two, three, 7 four process that's gone through there? 8 MR. DOWNTON: 9 A. That wasn't identified in the same degree. I 10 guess, the recommendation from the structural 11 engineer was to regalvanize in the next couple	1 far, is that basically attributable to the 2 ordinary wear and tear to be expected on this 3 type of equipment, in the area that it's been 4 installed? 5 MR. DOWNTON: 6 A. I guess when you look at the life expectancy, 7 yes. 8 Q. If you do the type of maintenance that you're 9 going to be doing, the type of refurbishment 10 as you've characterized it, how much longer 11 can you expect to extend the life of this
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1 MR. DOWNTON: 2 A. It's a regalvanization - 3 Q. Is that a fair - 4 MR. DOWNTON: 5 A because of detected corrosion. 6 Q. Is there a similar sort of level two, three, 7 four process that's gone through there? 8 MR. DOWNTON: 9 A. That wasn't identified in the same degree. I 10 guess, the recommendation from the structural 11 engineer was to regalvanize in the next couple 12 of years. 13 Q. And the guys at level four, I presume there 14 are other guy wires at other levels that 15 aren't being replaced. Why do they need to be 16 replaced at this time? 17 MR. DOWNTON: 18 A. Again, it's based on the recommendation from 19 the structural engineer. He noted corrosion 20 on those particular guys. There was no 21 corrosion noted at that time on the other	far, is that basically attributable to the ordinary wear and tear to be expected on this type of equipment, in the area that it's been installed?  MR. DOWNTON: A. I guess when you look at the life expectancy, yes.  Q. If you do the type of maintenance that you're going to be doing, the type of refurbishment as you've characterized it, how much longer can you expect to extend the life of this site, beyond theor of these components, I should say, of this site beyond the 20 to 25 years?  MR. DOWNTON: A. In my estimation, I guess discussions, we expect that we should be able to extend the life upwards to 40 to 50 years for these sites.  Q. So maybe as much as double again?
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additional wear and tear, but is it possible

these components that we've talked about so

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1	MR. COXWORTHY:	1	MR. DOWNTON:
2	that simply by applying the paint, replacing	2	A. Basically, within the detailed electrical
3	some of the guy wires again, regalvanizing the	3	
4	anchor heads, you might get another 15-20	4	
5	years out of this site, even beyond the 40?	5	
6	MR. DOWNTON:	6	
7	A. That is a possibility. Other factors may come		MR. DOWNTON:
8	into play. Basically the -	8	
9	Q. Assuming that the equipment itself doesn't	9	
10	become obsolescent, I suppose. I mean, the	10	
11	microwaveI presume that would be obviously	11	
12	an overriding. But if the actual microwave	12	Q. You say you know the lighting needs to be
13	technology is not been superseded in some	13	
14	sense in that period.	14	MR. DOWNTON:
	MR. DOWNTON:	15	
16	A. I was thinking more of environmental factors,	16	
17	such as the Canadian Electrical Association.	17	
18	Canadian standards basically dictate standards	18	
19	and also if there's any additional ice loading	19	
20	requirements. But other than that, what	20	
21	you're saying is correct.	21	Q. So you know it needs to be repaired, so I
22	Q. The only other component that's been	22	
23	identified here is a detailed electrical	23	
24	system assessment. Does that involve testing	24	· · · · · · · · · · · · · · · · · · ·
25	the electrical systems at the site?	25	MR. DOWNTON:
	Page 147		Page 148
1	A. Well, we know that the lighting system will be	1	
2	repaired. I guess, what we're also looking at	2	
3	is the whole aspect of the transfer switches,	3	
4	the backup power system, the conduit basically	4	
5	on the tower for the lighting, and -	5	
6	Q. So you'll be testing to see if those are still	6	
7	functioning the way they ought to be	7	operation. The Mary March Hill site is, for
8	functioning? Is that -	8	
9	MR. DOWNTON:	9	but Mary March Hill is next to Buchans, and
10	A. Well, I don't have that level of detail. I	10	that particular site carries a teleprotection
11	guess all I'm saying is that we want to carry	11	for transmission lines between Buchans and
12	out an assessment of the electrical equipment.	12	Stoney Brook. It also carries the SCADA for
13	Q. Has that been done before at this site, do you	13	the Hind's Lake and Cat Arm remote Hydro
14	know? Any level of assessment of the	14	sites, as well as all the SCADA for the
15	electrical system in the last 20-25 years,	15	Northern Peninsula and the west coast, I
16	since it was installed?	16	basically go through that site. I also have
17	MR. DOWNTON:	17	operational voice and administrative data and
18	A. Not that I'm aware of.	18	if that site fails, we'll alsoAliant will
19	Q. Not that you're aware of. Has the	19	not be able to provide services in the
20	deterioration that you described at the Mary	20	Buchans/Millertown area, so basically it's a

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23

24

25

critical site, from our perspective.

not painted in 2005?

Q. If the refurbishment that's being proposed

tower in danger of structural failure if it's

does not proceed, Mr. Downton, in 2005, is the

March Hill site impaired its operations, the

A. It has not impaired the operations, I guess,

microwave operations of Hydro in any way to

21

22

23

date?

24 MR. DOWNTON:

$\stackrel{\sim}{\vdash}$			D 150
	Page 149		Page 150
l	MR. DOWNTON:	1	Q. For this particular site?
2	A. I guess based on the advice of our structural	2	MR. DOWNTON:
3	engineer and I say our structural engineer is	3	A. Yes.
4	not a Hydro structural engineer. For the most	4	Q. Because you did mention there are other sites
5	part, we use internal and external and in this	5	that were built around the same time period.
6	particular case, an outside structural	6	MR. DOWNTON:
7	engineer recommended that this work be done	7	A. We have other sites that were built around the
8	and as such, we figure that it is prudent to	8	same time period, we do annual inspections on
9	follow his direction.	9	those sites and we are in the process now of
10	Q. But I guess to use a term that's been used in	10	doing a detailed review on all of the sites.
11	respect of an earlier project, this is not	11	Q. Have some of those other sites also been
12	"hanging by a thread" in terms of the	12	recommended for this type of refurbishment
13	structural integrity of this site, that if	13	within the next two or three years by the same
14	things aren't done in 2005, that you're going	14	structural engineer?
15	to have a failure of the structural elements		MR. DOWNTON:
16	of this site?	16	A. There have not been anythe study is not
ı	MR. DOWNTON:	17	complete so there have not been any formalized
18	A. No, I don't want to speak for the engineer in	18	recommendations at this point.
19	particular, but it was his recommendation that	19	Q. Only in respect of this particular site?
20	this work be done in this time frame.		MR. DOWNTON:
21	Q. Within what time frame?	21	A. That's correct.
ı	MR. DOWNTON:		
ı		22	Q. Thank you, Mr. Downton. If we could move on
23	A. Basically withwell the inspection was done	23	then to a project B-143, Mr. Chair, which is
24	in 2002, his recommendation that we do this	24	the replace remote terminal units for phase 6
25	work in the next two to three years.	25	of that project? And as noted, this is phase
	Page 151		Page 152
1	6 of a 9-phase plan to replace all of the	1	referred to, which I think you said that they
2	obsolete RTUs at Bay d'Espoir. How has the	2	have already been enhanced or had some
3	priority been determined for those	3	additional equipment added, telemetry points I
4	replacements, obviously this has been done	4	think was one of the examples. Was there an
5	over a period of years, how did it come to be	5	enhanced or increased need for reliability
6	decided that these two remote terminal units	6	then with respect to those RTU units that
7	would be made to wait to this point for	7	called for those to have a priority of
8	replacement?	8	replacement over, for instance, the ones that
9	MR. DOWNTON:	9	are being proposed for 2005?
10	A. When we brought this program to the Board in	10	MR. DOWNTON:
11	2000, we had laid out a list of stations, I	11	A. I guess in my estimation, the remote terminal
12	guess, in our estimation at that time we	12	units are all at the same priority. They all
13	looked at the priority based on what we were	13	provide us with the ability or with the energy
14	doing at the various sites; in particular,	14	management system, the energy control center,
15	where we needed to add additional	15	to dispatch our transmission, generation and
16	functionality or points, what we call	16	distribution assets. I guess, we recognized
17	additional telemetry points to the various	17	when we brought the program forward in 2000,
18	sites. We did those first and where we also	18	it was notit did not make sense to try and
19	were changing facilities at other sites, like	19	change out 32 RTUs in one year, so what we
ı			brought forward was a managed plan to replace
20	Springdale, Bottom Brook and a couple of other	20	the obsolescent infrastructure and we did it
21	sites, we did those next because it made more	21	
21	conce co mo months't have to made made	22	trying to take into account the versions other
22	sense, so we wouldn't have to redo work. And	22	trying to take into account the various other
22 23	I guess these particular sites are now being	23	factors that play out.
22		23	

the units that we replaced in 2000. The

manufacturer stopped supporting the Quindar

units in 1993, so right now, I mean, we are--

even if you go to 2005, you're looking at 12

years past the time that we've been able to

get any spares or any kind of manufacturer

support for these facilities. So I guess from

our perspective, yes, the urgency is there to

we have infrastructure which is able to

deliver the services to our customers in a

Q. You've mentioned the fact that the Quindar

manufacturer support is no longer there and I

units, the customer support or the

continue with the program and to ensure that

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Page 153	Page
1 MR. COXWORTHY:	started this replacement project? Have they
2 recognized that it didn't make sense to change	become any more urgent to replace in the
all 32 at once, what were the reasons for	3 interim?
4 that, why it didn't make sense?	4 MR. DOWNTON:
5 MR. DOWNTON:	5 A. I guess from my perspective what I looked at
6 A. I guess a couple of reasons. One, I would	is that these units are six years older than

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- 6 7 focus on the fact that to bring in and try to replace 32 units in one year would be a 8 significant disruption to the business. What 9 10 we also took into consideration is that we wanted to try to extend the life as much as we 11 could of the infrastructure that we had in 12 13 place and I think we've done that. Again, if you look at the plant RTU that was installed 14 in 1980, the economic life for those units are 15 16 typically ten years. Technical life is ten to fifteen years and those particular units will 17 get anywhere from 20 to 26 years of service 18 before they're finally changed out. So I 19 think we've demonstrated what we are trying to 20 do, again, is to extend the life as much as we 21
- 22 can. 23 Q. Is there any more urgency in replacing these two particular RTU units that are being 24 proposed for 2005 now, then there was when you 25

do note in the project justification that one 22 23 of the reasons that has been advanced for this replacement at this time is that spares are no 24

longer available for these systems? 25 Page 155

reliable fashion.

## 1 MR. DOWNTON:

- A. Yes, manufacturer support and spares, third-2 3 party repair services are not available.
- Q. And my question, Mr. Downton, was, was it 4 5 possible or could it have been possible or is it still possible from the RTUs that have 6
- 7 already been replaced, were they or could they
  - have been a source of spares for the remaining
- RTUs, including these two?

## 10 MR. DOWNTON:

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- 11 A. We have kept some spares which we think are critical to help us through the remainder of 12 this replacement program. 13
- Q. So the statement "spares are no longer 14 available for these systems" would have to be 15 qualified, at least to that extent, that there 16 are some critical spares that have been saved 17 from the previously replaced RTUs? 18

## 19 MR. DOWNTON:

20 A. Well I think that when we use the term "spares" in relation to what you'd get from a 21 manufacturer, I usually think that you're 22 getting new spares, something that has not 23 been in service for 20 to 25 years, so I would 24 caution the use of, the fact that we are 25

taking things out of service after 20 or 25 1 years and using any spares to give you the 2 3

same sense of security of a spare that you just got off the shelf from a manufacturer.

Q. And I take your point, Mr. Downton, because I

think, you know, everyone would accept that 6 7 new spares from the manufacturer are not equivalent to spares that have been 8 9 cannibalized from equipment that's been taken out of commission, and fair enough. But also, 10 11 would it also be fair to say that when you are

getting new spares from the manufacturer, 12 you're expecting that they will have a certain 13

period of reliable utility and that what we're 14 talking about here, of course, where these are 15

intended to be replaced at some point, you're 16 not looking for that same length of time of 17

reliability from your spares? 18

## 19 MR. DOWNTON:

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- A. You're not looking at for the same length of 20 time, nor do I expect it either, based on my 21 previous experience. 22
  - Q. Has there been actually any reason since you started this program to use, I've called them "cannibalized spares", but spares that have

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	ig , , i i i i i i i i i i i i i i i i i
Page 157	Page 158
1 MR. COXWORTHY:	1 rooms, as opposed to air conditioning for
2 been salvaged from previously replaced RTUs,	2 office space. But I'd ask youI assume it's
3 has there been any opportunity to actually use	3 Mr. Downton who may be responding to this, are
4 those in any of the RTUs that haven't been	4 these, in fact, limited to rooms that are
5 upgraded?	5 housing communication systems or are they also
6 MR. DOWNTON:	6 including office space?
7 A. We've basically, from what I understand, we've	7 MR. DOWNTON:
8 probably done it once or twice and what we	8 A. Yes, both.
9 found is that some of the spares which we had	9 Q. They're both, are they?
in our inventory didn't work when we put them	10 MR. DOWNTON:
in the RTUs.	11 A. Basically I should clarify because after
Q. Have you been able, though, to eventually find	discussion with air conditioning systems we
the spares that would allow the RTUs to	had earlier, these are actually units as
14 continue to operate?	opposed to systems and that's what is being
15 MR. DOWNTON:	proposed here, that we're replacing air
16 A. Yes, otherwise they would have been replaced	conditioning units. Basically we lookingin
by now.	the proposal at Stoney Brook Terminal Station
18 Q. Thank you, Mr. Downton. Mr. Chair, if we	is for the communications room. At the Deer
could move on to project B-144 which is the	Lake office what we're looking for is a unit
20 replacement of the air conditioners at Stoney	20 to cool what we consider the administrative
Brook and Deer Lake. And I guess I would	area of that office, of the Deer Lake office,
highlight at the outset that unlike some	and also in that administrative area we have
earlier air conditioner systems we've	23 communications equipment as well.
discussed earlier in these hearings, these are	Q. Thank you for that clarification, Mr. Downton.
25 air conditioning systems in communication's	25 When you say "unit" I guess this is as opposed
Daga 150	Daga 160
Page 159	Page 160
1 to a centrally installed air conditioning	1 of the type that's at Stoney Brook are
to a centrally installed air conditioning system and in both places what's being	
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning	of the type that's at Stoney Brook are supposed to be kept at?  3 MR. DOWNTON:
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window	of the type that's at Stoney Brook are supposed to be kept at?
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed -	1 of the type that's at Stoney Brook are 2 supposed to be kept at? 3 MR. DOWNTON: 4 A. I know there are standards, I do not know what 5 those detailed standards are.
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON:	of the type that's at Stoney Brook are supposed to be kept at? MR. DOWNTON: A. I know there are standards, I do not know what those detailed standards are. Q. There was some discussion, again, in the
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install.	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit,	1 of the type that's at Stoney Brook are 2 supposed to be kept at? 3 MR. DOWNTON: 4 A. I know there are standards, I do not know what 5 those detailed standards are. 6 Q. There was some discussion, again, in the 7 context of office space and for human 8 occupancy of ASHRAE standards, but if I say
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not familiar with what those standards are?
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning,	1 of the type that's at Stoney Brook are 2 supposed to be kept at? 3 MR. DOWNTON: 4 A. I know there are standards, I do not know what 5 those detailed standards are. 6 Q. There was some discussion, again, in the 7 context of office space and for human 8 occupancy of ASHRAE standards, but if I say 9 that to you, you would say you're simply not 10 familiar with what those standards are? 11 MR. DOWNTON:
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not	1 of the type that's at Stoney Brook are 2 supposed to be kept at? 3 MR. DOWNTON: 4 A. I know there are standards, I do not know what 5 those detailed standards are. 6 Q. There was some discussion, again, in the 7 context of office space and for human 8 occupancy of ASHRAE standards, but if I say 9 that to you, you would say you're simply not 10 familiar with what those standards are? 11 MR. DOWNTON: 12 A. I know basically the typical standards are for
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function -	1 of the type that's at Stoney Brook are 2 supposed to be kept at? 3 MR. DOWNTON: 4 A. I know there are standards, I do not know what 5 those detailed standards are. 6 Q. There was some discussion, again, in the 7 context of office space and for human 8 occupancy of ASHRAE standards, but if I say 9 that to you, you would say you're simply not 10 familiar with what those standards are? 11 MR. DOWNTON: 12 A. I know basically the typical standards are for 13 a certain temperature at a certain humidity.
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON:	1 of the type that's at Stoney Brook are 2 supposed to be kept at? 3 MR. DOWNTON: 4 A. I know there are standards, I do not know what 5 those detailed standards are. 6 Q. There was some discussion, again, in the 7 context of office space and for human 8 occupancy of ASHRAE standards, but if I say 9 that to you, you would say you're simply not 10 familiar with what those standards are? 11 MR. DOWNTON: 12 A. I know basically the typical standards are for 13 a certain temperature at a certain humidity. 14 Q. So do we know then whether at Stoney Brook
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON:  A. The air cooling is functioning, yes.	1 of the type that's at Stoney Brook are 2 supposed to be kept at? 3 MR. DOWNTON: 4 A. I know there are standards, I do not know what 5 those detailed standards are. 6 Q. There was some discussion, again, in the 7 context of office space and for human 8 occupancy of ASHRAE standards, but if I say 9 that to you, you would say you're simply not 10 familiar with what those standards are? 11 MR. DOWNTON: 12 A. I know basically the typical standards are for 13 a certain temperature at a certain humidity. 14 Q. So do we know then whether at Stoney Brook 15 whether the communications equipment that's
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window mistalled - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON: A. The air cooling is functioning, yes. O. Okay, and from the point of view, thisin	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not familiar with what those standards are?  MR. DOWNTON:  A. I know basically the typical standards are for a certain temperature at a certain humidity.  Q. So do we know then whether at Stoney Brook whether the communications equipment that's being kept in that communications room,
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON: A. The air cooling is functioning, yes. Q. Okay, and from the point of view, thisin this case, this is a communications room	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not familiar with what those standards are?  MR. DOWNTON:  A. I know basically the typical standards are for a certain temperature at a certain humidity.  Q. So do we know then whether at Stoney Brook whether the communications equipment that's being kept in that communications room, whether or not it's being kept outside of any
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON: A. The air cooling is functioning, yes. Q. Okay, and from the point of view, thisin this case, this is a communications room exclusively? In the case of Stoney Brook it's	1 of the type that's at Stoney Brook are 2 supposed to be kept at? 3 MR. DOWNTON: 4 A. I know there are standards, I do not know what 5 those detailed standards are. 6 Q. There was some discussion, again, in the 7 context of office space and for human 8 occupancy of ASHRAE standards, but if I say 9 that to you, you would say you're simply not 10 familiar with what those standards are? 11 MR. DOWNTON: 12 A. I know basically the typical standards are for 13 a certain temperature at a certain humidity. 14 Q. So do we know then whether at Stoney Brook 15 whether the communications equipment that's 16 being kept in that communications room, 17 whether or not it's being kept outside of any 18 established standard or whether in fact it's
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON: A. The air cooling is functioning, yes. Q. Okay, and from the point of view, thisin this case, this is a communications room exclusively? In the case of Stoney Brook it's not co-mingled with office space in terms of	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not familiar with what those standards are?  MR. DOWNTON:  A. I know basically the typical standards are for a certain temperature at a certain humidity.  Q. So do we know then whether at Stoney Brook whether the communications equipment that's being kept in that communications room, whether or not it's being kept outside of any established standard or whether in fact it's still being maintained within an established
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON: A. The air cooling is functioning, yes. Q. Okay, and from the point of view, thisin this case, this is a communications room exclusively? In the case of Stoney Brook it's not co-mingled with office space in terms of the air conditioning need?	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not familiar with what those standards are?  MR. DOWNTON:  A. I know basically the typical standards are for a certain temperature at a certain humidity.  Q. So do we know then whether at Stoney Brook whether the communications equipment that's being kept in that communications room, whether or not it's being kept outside of any established standard or whether in fact it's still being maintained within an established standard for ambient temperature?
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON: A. The air cooling is functioning, yes. Q. Okay, and from the point of view, thisin this case, this is a communications room exclusively? In the case of Stoney Brook it's not co-mingled with office space in terms of the air conditioning need? MR. DOWNTON:	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not familiar with what those standards are?  MR. DOWNTON:  A. I know basically the typical standards are for a certain temperature at a certain humidity.  Q. So do we know then whether at Stoney Brook whether the communications equipment that's being kept in that communications room, whether or not it's being kept outside of any established standard or whether in fact it's still being maintained within an established standard for ambient temperature?
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON: A. The air cooling is functioning, yes. Q. Okay, and from the point of view, thisin this case, this is a communications room exclusively? In the case of Stoney Brook it's not co-mingled with office space in terms of the air conditioning need? MR. DOWNTON: A. No, it's exclusively communications equipment.	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not familiar with what those standards are?  MR. DOWNTON:  A. I know basically the typical standards are for a certain temperature at a certain humidity.  Q. So do we know then whether at Stoney Brook whether the communications equipment that's being kept in that communications room, whether or not it's being kept outside of any established standard or whether in fact it's still being maintained within an established standard for ambient temperature?  MR. DOWNTON:  A. I do not know that detail. I guess all I can
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON: A. The air cooling is functioning, yes. Q. Okay, and from the point of view, thisin this case, this is a communications room exclusively? In the case of Stoney Brook it's not co-mingled with office space in terms of the air conditioning need? MR. DOWNTON: A. No, it's exclusively communications equipment. A. No, it's exclusively communications equipment.	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not familiar with what those standards are?  MR. DOWNTON:  A. I know basically the typical standards are for a certain temperature at a certain humidity.  Q. So do we know then whether at Stoney Brook whether the communications equipment that's being kept in that communications room, whether or not it's being kept outside of any established standard or whether in fact it's still being maintained within an established standard for ambient temperature?  MR. DOWNTON:  A. I do not know that detail. I guess all I can indicate again is that the unit cannot be
to a centrally installed air conditioning system and in both places what's being proposed is purchasing a new air conditioning unit. Would this be sort of a window installed - MR. DOWNTON: A. I would say a window-wall type of install. Q. So if we could discuss the Stoney Brook unit, which is stated in the operating experience as having been installed approximately 15 years ago and is being described as not functioning, the heating and humidification are not functioning. Is the air cooling function - MR. DOWNTON: A. The air cooling is functioning, yes. Q. Okay, and from the point of view, thisin this case, this is a communications room exclusively? In the case of Stoney Brook it's not co-mingled with office space in terms of the air conditioning need? MR. DOWNTON: A. No, it's exclusively communications equipment.	of the type that's at Stoney Brook are supposed to be kept at?  MR. DOWNTON:  A. I know there are standards, I do not know what those detailed standards are.  Q. There was some discussion, again, in the context of office space and for human occupancy of ASHRAE standards, but if I say that to you, you would say you're simply not familiar with what those standards are?  MR. DOWNTON:  A. I know basically the typical standards are for a certain temperature at a certain humidity.  Q. So do we know then whether at Stoney Brook whether the communications equipment that's being kept in that communications room, whether or not it's being kept outside of any established standard or whether in fact it's still being maintained within an established standard for ambient temperature?  MR. DOWNTON:  A. I do not know that detail. I guess all I can

O	ctober 8, 2004 Multi	i-Pa	ge №L Hydro's 2005 Capital Budget Application
	Page 161		Page 162
1	MR. DOWNTON:	1	is that it doesn't happen.
2	equipment that supports the teleprotection on	2	Q. Well how would it happen? I guess you haven't
3	the lines to Bay d'Espoir. Stoney Brook is in	3	been able to tell me in relation to standards
4	Grand Falls, by the way, so basically it	4	how a problem might arise, how -
5	supports the teleprotection on the lines to	5 N	MR. DOWNTON:
6	Bay d'Espoir, on the lines to Buchans, on the	6	A. Well basically if the air conditioning in a
7	line to the mill in Grand Falls, as well as	7	room fails, the equipment that's in a room is
8	the line going towards Gander. It also	8	still going to generate heat, the temperature
9	carries the voice and data that goes into the	9	is going to rise and at some point in time,
10	operational data equipment that goes into the	10	the equipment will fail.
11	mill in Grand Falls. So from our perspective,	11	Q. But if you're not able to tell me that in
12	this is a critical site. I guess when I first	12	reference to any standards, how are you able
13	received this request, to be quite honest, I	13	to make that statement?
14	basically felt that maybe we should repair	14 N	MR. DOWNTON:
15	this under an emergencyon an emergency	15	A. Because I've worked at it for 25 years, I've
16	basis, but I felt that we should be putting	16	basically seen air conditioners fail in
17	these things through the proper process, so	17	computer rooms and I've seen disk drives fail,
18	that's basically why this is being submitted.	18	I've seen computers fail, I've seen radio
19	Q. Has there actually been any difficulty	19	equipment fail, so I guess I recognize that
20	encountered with the use of the communications	20	when a temperature gets up in the area of,
21	equipment at this site as a result of the non-	21	I'll use the fahrenheit scale, 80 to 85
22	functioning of the heating and humidification	22	degrees, equipment will fair.
23	functions?	23	Q. The concern is with heat, excessive heat and
24	MR. DOWNTON:	24	of course, the cooling function is still
25	A. Not as yet, and I guess what we want to ensure	25	working. Is there any reason to think that
	Page 163		Page 164
1	the cooling function won't continue to	1	started that it's inadequate and does not meet
2	_	2	the requirements of an indoor air quality
3	MR. DOWNTON:	3	assessment. When was the Deer Lake office air
4	A. Well I guess our concern is that if it does	4	conditioning unit in question here installed?
5	fail, we can't even repair it.	5 N	MR. DOWNTON:
6	Q. How long have the heating and humidification	6	A. This particular, two to three years ago we
7	functions been non-functioning on this unit?	7	basically purchased a portable unit and put it
8	MR. DOWNTON:	8	in this area. I guess primarily because, I
9	A. This was brought to my attention this year.	9	guess, complaints, if you want to call it
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Q. And I guess my question was for how long has 10 11 it been non-functioning?

12 MR. DOWNTON:

13 A. I do not know, I guess my understanding is that this problem occurred this year. 14

15 Q. Required parts are not available. Can you give us any insight as to what efforts have 16

17 been made to determine that?

18 MR. DOWNTON:

19 A. I guess we brought in an air conditioning company to look at the unit and their 20 21 determination was that this thing could not be 22 fixed and parts were not available for it.

23 Q. Thank you, Mr. Downton. If we could move on then to the air conditioning unit again, I

24 25 believe you said at the Deer Lake office, it's that, from our staff that especially in the July/August time frames it was very warm to the point, same sorts of problems identified by Mr. Martin earlier. But also in the last two years we have put some monitoring equipment in this particular location. We used what we call the administrative area, the office, to house two units; one is used to monitor the microwave radio equipment, the alarm and monitoring equipment on that, as well as the alarm and monitoring for operational voice and data network. And I guess we've used this system and what we found is that it does not provide adequate cooling capacity. So I guess what we've brought forward here as a proposal to put in a unit

_	,	_	or or other state of the state
	Page 165		Page 166
	MR. DOWNTON:	1	, , , , , , , , , , , , , , , , , , ,
2	which will provide adequate cooling capacity	2	1
3	for that particular area alone. We not	3	be made to improve the air quality for an
4	looking at cooling capacity for the total	4	office environment.
5	building.	5	
6	Q. Do you know what the cost was of the	6	
7	inadequate unit that was purchased two or	7	hearing to the American Society of Heating and
8	three years ago?	8	$\mathcal{E}$
l	MR. DOWNTON:	9	Standard and this is at IC-21, I should say,
10	A. It was less than \$1000.00.	10	1 3
11	Q. And what of this \$55,000 expenditure, how much	11	you know whether this air quality assessment
12	of that approximately, to your knowledge, is	12	
13	going to the Deer Lake office portion of this	13	standard, the air quality assessment that was
14	project?	14	
l	MR. DOWNTON:	15	MR. DOWNTON:
16		16	
17	Q. There's reference there to what would appear	17	Q. And that air quality assessment was done prior
18	to be perhaps a standard, that it does not	18	1
19	meet the requirements of an indoor air quality	19	$\mathcal{E}$
20	assessment. Can you tell us what an air		MR. DOWNTON:
21	quality assessment is?	21	A. Yes, it was.
22	MR. DOWNTON:	22	Q. And was that air conditioning unit the one
23	A. We, I don't know all the details, but we,	23	that was proven to be an inadequate purchase
24	about four years ago we engaged an air quality	24	pursuant to a recommendation made by that
25	assessment consultant to basically come in and	25	earlier air quality assessment?
	Page 167		Page 168
1	MR. DOWNTON:	1	actually recommend the type of air
2	A. No, it wasn't.	2	conditioning. We have done similar air
3	Q. It was not?	3	quality assessments as well when we have
4	MR. DOWNTON:	4	complaints and we've done them in Bishop's, as
5	A. No, it was not.	5	well, and Labrador.
6	Q. It was purchased contrary to what was being	6	MR. COXWORTHY:
7	recommended by that assessment?	7	Q. And I think that in part anticipates a
8	MR. DOWNTON:	8	1
9	A. I guess the person in charge of the office put	9	Lake office primarily a human, I don't want to
10	in a unit that he hoped would meet the	10	just say comfort, but a human occupancy issue
11	requirements and I guess what we've shown is	11	as opposed to the fact that there happens to
12	that it has not met the requirements.	12	be also communications equipment in this
ı	(1:15 p.m.)	13	office?
14	GREENE, Q.C.:	14	MR. DOWNTON:
٠		17	
15	Q. For the record, the air quality assessment was	15	•
15 16	Q. For the record, the air quality assessment was done in conjunction with the Occupational		Q. Was that identified by the air quality
l	done in conjunction with the Occupational Health and Safety Department of Newfoundland	15 16 17	Q. Was that identified by the air quality assessment of the Occupational Health & Safety
16	done in conjunction with the Occupational Health and Safety Department of Newfoundland and Labrador Hydro, which in another hat I am	15 16 17 18	Q. Was that identified by the air quality assessment of the Occupational Health & Safety process?
16 17	done in conjunction with the Occupational Health and Safety Department of Newfoundland and Labrador Hydro, which in another hat I am responsible for. It was done in response to a	15 16 17 18 19	<ul><li>Q. Was that identified by the air quality assessment of the Occupational Health &amp; Safety process?</li><li>MR. DOWNTON:</li></ul>
16 17 18 19 20	done in conjunction with the Occupational Health and Safety Department of Newfoundland and Labrador Hydro, which in another hat I am responsible for. It was done in response to a complaint to determine whether the office	15 16 17 18	<ul><li>Q. Was that identified by the air quality assessment of the Occupational Health &amp; Safety process?</li><li>MR. DOWNTON:</li><li>A. Basically that equipment was put in the Deer</li></ul>
16 17 18 19	done in conjunction with the Occupational Health and Safety Department of Newfoundland and Labrador Hydro, which in another hat I am responsible for. It was done in response to a complaint to determine whether the office environment was adequate or not. It did not	15 16 17 18 19 20 21	<ul> <li>Q. Was that identified by the air quality assessment of the Occupational Health &amp; Safety process?</li> <li>MR. DOWNTON:</li> <li>A. Basically that equipment was put in the Deer Lake office after that assessment was done.</li> </ul>
16 17 18 19 20	done in conjunction with the Occupational Health and Safety Department of Newfoundland and Labrador Hydro, which in another hat I am responsible for. It was done in response to a complaint to determine whether the office environment was adequate or not. It did not get into the type of air conditioning. It was	15 16 17 18 19 20 21 22	<ul> <li>Q. Was that identified by the air quality assessment of the Occupational Health &amp; Safety process?</li> <li>MR. DOWNTON:</li> <li>A. Basically that equipment was put in the Deer Lake office after that assessment was done.</li> <li>Q. Okay, so the need for that equipment to have</li> </ul>
16 17 18 19 20 21	done in conjunction with the Occupational Health and Safety Department of Newfoundland and Labrador Hydro, which in another hat I am responsible for. It was done in response to a complaint to determine whether the office environment was adequate or not. It did not get into the type of air conditioning. It was to assess whether there were problems in the	15 16 17 18 19 20 21	<ul> <li>Q. Was that identified by the air quality assessment of the Occupational Health &amp; Safety process?</li> <li>MR. DOWNTON:</li> <li>A. Basically that equipment was put in the Deer Lake office after that assessment was done.</li> <li>Q. Okay, so the need for that equipment to have this type of air conditioning wasn't</li> </ul>
16 17 18 19 20 21 22 23 24	done in conjunction with the Occupational Health and Safety Department of Newfoundland and Labrador Hydro, which in another hat I am responsible for. It was done in response to a complaint to determine whether the office environment was adequate or not. It did not get into the type of air conditioning. It was to assess whether there were problems in the office environment, which it confirmed, which	15 16 17 18 19 20 21 22	<ul> <li>Q. Was that identified by the air quality assessment of the Occupational Health &amp; Safety process?</li> <li>MR. DOWNTON:</li> <li>A. Basically that equipment was put in the Deer Lake office after that assessment was done.</li> <li>Q. Okay, so the need for that equipment to have this type of air conditioning wasn't</li> </ul>
16 17 18 19 20 21 22 23	done in conjunction with the Occupational Health and Safety Department of Newfoundland and Labrador Hydro, which in another hat I am responsible for. It was done in response to a complaint to determine whether the office environment was adequate or not. It did not get into the type of air conditioning. It was to assess whether there were problems in the	15 16 17 18 19 20 21 22 23	<ul> <li>Q. Was that identified by the air quality assessment of the Occupational Health &amp; Safety process?</li> <li>MR. DOWNTON:</li> <li>A. Basically that equipment was put in the Deer Lake office after that assessment was done.</li> <li>Q. Okay, so the need for that equipment to have this type of air conditioning wasn't</li> </ul>

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1 MR. DOWNTON:	particular project, that basically there is
2 A. That is correct.	some allowance for, under those headings, each
3 Q. Thank you, Mr. Downton. I have no further	year in your capital budget?
4 questions. Thank you, Mr. Chair. That	4 MR. DOWNTON:
5 concludes my portion of the questioning.	5 A. Yes, that is correct.
6 CHAIRMAN:	6 Q. Okay. The KPI project is different in that
7 Q. Thank you, Mr. Coxworthy. Mr. Hutchings?	that's potentially a one time enhancement of
8 HUTCHINGS, Q.C.:	8 your capability in that regard in response to
9 Q. Thank you, Mr. Chair. Good afternoon	9 the Board Order, is that correct?
gentlemen. I'd like to start with the	10 MR. NICHOLS:
application's enhancements at page B-120.	11 A. That's not correct. KPI is also an initiative
12 MR. DOWNTON:	which Hydro has which we continue on a yearly
13 A. Before we start, could I have some more water	basis to enhance and create more to help Hydro
14 please?	run its business.
15 Q. Always a legitimate request. I suspect that	15 Q. So when was the first time that this KPI
it will be Mr. Nichols who will be able to	16 heading occurred in the applications
answer these questions, but I'll leave it to	enhancements project?
the panel to determine that. It respect of	18 MR. DOWNTON:
this project, we put a question to you and the	19 A. It didn't come up under KPI. When the KPI
20 answer is at IC-31, which breaks down the	the KPI site is really an Intranet site and
different headings by amount in order to give	that was done about two years ago as part of
us some more detail with respect to this	the Intranet roll out project.
project. Am I correct in saying that items A	23 Q. So what we've seen in Intranet in previous
24 & B, the various minor enhancements and the	24 years has included some aspect of KPI?
25 Intranet are recurring features of this	25 MR. DOWNTON:
Page 171	
1 A. Yes, that is correct.	1 Q. Yes. And I'm thinking back to last year's
2 Q. Okay, all right. Moving then to the	2 proposal which had a minor enhancements
3 facilities failure model, is that, in fact, a	heading and intranet heading and also an
4 one time item, as opposed to a recurring	4 enterprise project management. The enterprise
5 thing?	5 project management was sort of a one time
6 MR. HAYNES:	6 thing as well, wasn't it?
7 A. Yes, it is. That is a one-time acquisition.	7 MR. DOWNTON:
8 Q. Okay, so there is, I guess, a difference in	8 A. That's correct.
9 time between item D and item A, B & C. A, B &	9 Q. We did, last year as well, ask for some detail
C are almost like annual allotments, would you	on the project that was applications
agree, not unlike surge arrestors or	enhancements last year, last years was B-60.
transformers, that these are things that are	I don't think we need to look at that, but
going to recur over time and there'll have to	quite coincidentally, the answer last year in
be an annual allowance for?	the 2004 capital budget was also IC-31. And I
15 MR. HAYNES:	think perhaps that may be available, Mr.
16 A. I would say, yes.	O'Rielly, from last year's hearing. That's
17 MR. DOWNTON:	the 2004 IC-31 and it shows the breakdowns for
18 A. The answer is yes, just so I can concur with	the minor enhancements, the intranet project
19 Mr. Haynes.	and the enterprise project management. I

21

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notice that in the description of the minor

enhancements from your--and I'll get back to

this particular page in a moment--but from

your project description, you talk about the

minor enhancements as being things such as

changes initiated by Canada Post, changes to

extent you find necessary.

applications enhancements.

Q. You can debate amongst yourselves to the

A. I guess from our perspective, I mean, all four

categories fall into what we consider to be

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22 MR. DOWNTON:

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1 MR. DOWNTON:	better manage the various aspects of our
2 income tax calculations and so on. Are these	2 auditing processes. And that was identified
3 basically updates to your existing programs to	3 earlier in the year as a result of an audit
4 take into account external changes?	4 that was done in our environmental management
5 MR. DOWNTON:	5 area.
6 A. In some cases the changes are driven	6 Q. Okay. But I mean, the Canada Post reference
7 externally and in some cases, going through	7 that you make and the income tax
8 the year, we identify areas which we need to	8 calculations, what do they relate to? Is that
9 make improvements and we'll basically do an	9 a change in the price of sending a letter that
application for that particular area.	requires you to update your program?
11 Q. Okay. I mean, at a very different level, I	11 MR. DOWNTON:
mean, I see this as being a release from	12 A. The incentive letter mail out, what it was,
Quickbooks to update your payroll deductions	was the way that the mailing that was put out
for next year. I mean, on a very different	which resulted in an improved operational
level, what you refer to as changes to income	basically we took \$20,000.00 out of our
tax calculations, is that what you're talking	operational budget because of the way that our
17 about?	bulk mailing was done. And that project
18 MR. DOWNTON:	justified itself in about 11 months.
19 A. What we've traditionally seen, some of the	19 Q. So, this was a change in the way that you
20 projects, projects like equalized billing	20 processed bulk mail and you changed your
which basically is a project which the Board	program in order to accommodate that?
directed Hydro to do, also an application to	22 MR. DOWNTON:
help us do FTE reporting. And I guess one	23 A. That's right. It was a piece of software we
other project we're doing this year is a	put in to improve the way the bulk mailing is
project related to audit management so we can	25 done.
Page 1	175 Page 176
1 Q. Okay, and the income tax?	it is 99, that's not a huge change, I guess,
2 MR. DOWNTON:	but in terms of the extent to which you're
3 A. Basically that was put in there as an example,	3 prepared to able to plan this, this year
4 like, I don't remember a detail that we've	4 you've got 43,000 allotted for materials
5 done on that of late.	5 supply and last year there was not allotment
6 Q. I mean, I presume you did up income tax with,	6 for material supply. To the extent that this
you know, deductions from your employees and	is, as it's described to be, unforseen things
8 so on. And each year that needs to be updated	8 that are coming up, I mean, how do you do this
9 to make sure it's current with the existing	9 breakdown?
regulations and so on.	10 MR. NICHOLS:
11 MR. NICHOLS:	11 A. The breakdown basically on material supply is
12 A. That type of change is actually done under	12 basically under the various minor
J.D. Edwards as an operational issue in a	enhancements, that would really be for, like,
14 Veratas, not Veratas, from another company	services for programming services to basically
which basically that provide that update, I	make those changes to our system and whatnot.
believe, around November 15 which we put in	And under the KPI site would be very much the
than for the following year So estually	17 same and under the facilities failure model

17 then for the following year. So, actually 18 this year we're having some problems with 19 other stuff that we're doing to get to fit all this work in. But that's a regular update 20 21 that's done on the J.D. Edwards system. It 22 wouldn't be included in this at all. Q. Just getting back to the item on the screen 23 there, last year the amount that was assigned 24

17 same and under the facilities failure model, 18 that 51,000 is really to purchase a software 19 application for that purpose. Q. Sure, I understand that. I'm focusing on the 20 21 minor enhancements and I mean, last year there 22 was no item for material supply and this year 23 there's 43,000. I'm wondering how you can reach that type of conclusion if what you're 24 dealing with are unforseen items? 25

for minor enhancements was 85,000. This year

25

October 6, 2004	1-1 age NL Hydro's 2005 Capital Budget Application
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1 MR. DOWNTON:	planned. This wasn't an unforseen item. You
2 A. I guess what we've seen in the last couple of	2 knew at the time you budgeted -
years is that we have an average spend on the	3 MR. NICHOLS:
4 minor enhancements of, in the order of about	4 A. It was an unforseen item that came up and
5 \$80,000.00, \$82,000.00, \$84,000.00. And I	5 basically we purchased services to provide
6 guess we make our best guess then, is this	6 that system, that functionality.
7 going to beis there a possibility we're	7 Q. Okay, but how did that allow you to project,
8 going to buy a piece of software or are we	8 last year, that you would, in fact, need
going to end up going outside to get someone	9 \$45,000.00 in engineering services under the
to write an application. So, really it is	minor enhancements?
just an estimate based on our experience.	11 MR. NICHOLS:
12 Q. Is there anything that you can point me to	12 A. Again, going back to what Mr. Downton said, we
which would explain the notion that last year	look at this as these are annual changes that,
there was nothing for material supply and	like, say, come up and changes of, changes
45,000 for engineering. And this year there's	that the Board requests or request that the
43,000 for material supply and nothing for	business give to us that we need to go out and
engineering?	do for the business.
18 MR. NICHOLS:	18 Q. I'm not sure your answer is helping me
19 A. One of the examples that we did last year was	understand this, but let's move on. If we
we built an asset tracking module work flow	20 could look for a moment at IC-49 from this
situation which worked with our J.D. Edwards	year's hearing. This is the updated Section F
system and that basically was contracted out	22 and if we went to page F-6 of this item, you
to an outside. So, that would give you an	see that the applications enhancements
example of how we've come to this conclusion.	approved last year was \$463,000.00 and to the
25 Q. So, that was something that was, in fact,	end of August, only \$51,000.00 has been
Page 179	Page 180
1 expended.	going to purchase under this heading that come
2 MR. DOWNTON:	the end of the year and the money is not
3 A. That's correct.	3 spent, you may feel inclined to spend it on
4 Q. Is there any reason why an expenditure of that	4 things that you wouldn't necessarily think you
5 type would be so strongly concentrated toward	should be spending it on in the beginning of
6 the end of the year?	6 the year.
7 MR. DOWNTON:	7 MR. DOWNTON:
8 A. It's not much different than a lot of other	8 A. I take exception to that. We basically spend
9 projects in the sense that what we find is	9 the money in prudent fashion.
during the first half of the year, we do a lot	Q. So, from the basis of F-6, you fully intend to
of planning for what we're doing. And the	spend another \$412,000.00 between Septembler
last half of the year if really the delivery.	and December 31 under this heading?
13 And a lot of these projects we do not make	13 MR. DOWNTON:
progress payments on. Basically the payments	14 A. All of the work is in progress. And I guess I
are not made until the product is delivered.	come back to the fact that until the products
So, for this type of project, no different	are delivered and we make payment, it really
than a lot of other projects, a lot of the	doesn't show up here.
billing and actually the costing to this would	Q. Okay. The item dealing with the intranet
not be done until later in the year.	talks about improvement to information flow,
20 Q. It just seems to me that a project such as	20 elimination of redundant processes and the
21 this which is intended to respond to	reduction of manual effort associated with
22 unforeseen requirements should typically be a	distributing information. So, that initially
more evenly distributed type of project. And	sounded to me like a project that might result

25

in some cost savings, but in answer to IC- 78

you indicated that there are no staff

the danger remains, I guess, where there's

nothing specified as to exactly what you're

24

25

	Page 181		Page 182
	HUTCHINGS, Q.C.:	1	the internet sites that's being developed.
2	reductions as a result of this. Are there any	2	So, that would allow these people to access
3	savings associated with that project?	3	the latest versions of documentation of when
	(1:30 p.m.)	4	they need it, rather than had documents faxed
ı	MR. DOWNTON:	5	back and forth. So, we basically feel that
	A. We feel there are efficiencies to be gained	6	there are efficiencies gained just in the
6 7	and savings, but we don't basically feel that	7	communications of information.
	they are necessarily identifiable. The		Q. Okay. The project description also refers to
8	intranet is primarily a communications	8	
9	collaboration tool. And I guess what we are	9	providing an enhanced level of customer
10	9	10	service. What specifically is the enhancement to customer service associated with this?
11	trying to do is to leverage that, to better	11	
12	communicate throughout the organization. I		MR. NICHOLS:
13	guess some of the various aspects of what	13	A. One of the examples that's also provided by the internet site is what we would call access
14	we're doing this year. We're focusing on the	14	
15	remote areas, in particular the diesel plants.	15	to our EMS system and also they can access the
16	They have a requirement to have access to	16	reports that are produced by the EMS system
17	documents as it relates to customer	17	through the internet which they can get the
18	information, also what we call MSDS sheets	18	things such as things as they're actually
19	which is related to handling hazardous	19	happening on the system. So, those things are
20	, , , ,	20	provided also through the internet site.
21	1		MR. DOWNTON:
22	· · · · · · · · · · · · · · · · · · ·	22	A. Yes. Some of the examples is that when a
23		23	technician goes to a site, he can take his
24	£ ,	24	laptop, dial into our corporate internet site
25	environmental properties group, that is one of	25	which is what we call the EMS view, he can
	Page 183		Page 184
1	basically look at sequence of events data that	1	managers and supervisor and provide additional
2	basically look at sequence of events data that is current and also look at alarm and events	2	managers and supervisor and provide additional information for them, what we call a drill
	basically look at sequence of events data that is current and also look at alarm and events information that's current so to help him to		managers and supervisor and provide additional information for them, what we call a drill down which is taking some of the information
2 3 4	basically look at sequence of events data that is current and also look at alarm and events information that's current so to help him to troubleshoot equipment at any particular site.	2 3 4	managers and supervisor and provide additional information for them, what we call a drill down which is taking some of the information down to a lower level of, depending on which
2 3 4 5	basically look at sequence of events data that is current and also look at alarm and events information that's current so to help him to troubleshoot equipment at any particular site.  Q. So, is there any established standard for	2 3 4 5	managers and supervisor and provide additional information for them, what we call a drill down which is taking some of the information down to a lower level of, depending on which way you look at it, lower level of detail for
2 3 4	basically look at sequence of events data that is current and also look at alarm and events information that's current so to help him to troubleshoot equipment at any particular site.  Q. So, is there any established standard for customer service that is not being met now	2 3 4 5 6	managers and supervisor and provide additional information for them, what we call a drill down which is taking some of the information down to a lower level of, depending on which way you look at it, lower level of detail for them to make decisions with.
2 3 4 5 6 7	basically look at sequence of events data that is current and also look at alarm and events information that's current so to help him to troubleshoot equipment at any particular site.  Q. So, is there any established standard for customer service that is not being met now that will be met as a result of this project?	2 3 4 5 6 7	managers and supervisor and provide additional information for them, what we call a drill down which is taking some of the information down to a lower level of, depending on which way you look at it, lower level of detail for them to make decisions with.  Q. So, what you mean by business initiatives is
2 3 4 5 6 7 8	basically look at sequence of events data that is current and also look at alarm and events information that's current so to help him to troubleshoot equipment at any particular site.  Q. So, is there any established standard for customer service that is not being met now that will be met as a result of this project?  MR. DOWNTON:	2 3 4 5 6 7 8	managers and supervisor and provide additional information for them, what we call a drill down which is taking some of the information down to a lower level of, depending on which way you look at it, lower level of detail for them to make decisions with.  Q. So, what you mean by business initiatives is pushing information out within your own
2 3 4 5 6 7 8 9	basically look at sequence of events data that is current and also look at alarm and events information that's current so to help him to troubleshoot equipment at any particular site.  Q. So, is there any established standard for customer service that is not being met now that will be met as a result of this project?  MR. DOWNTON:  A. Not that I'm aware. I guess all we're trying	2 3 4 5 6 7 8 9	managers and supervisor and provide additional information for them, what we call a drill down which is taking some of the information down to a lower level of, depending on which way you look at it, lower level of detail for them to make decisions with.  Q. So, what you mean by business initiatives is pushing information out within your own organization. Is that what you mean by
2 3 4 5 6 7 8 9	basically look at sequence of events data that is current and also look at alarm and events information that's current so to help him to troubleshoot equipment at any particular site.  Q. So, is there any established standard for customer service that is not being met now that will be met as a result of this project?  MR. DOWNTON:  A. Not that I'm aware. I guess all we're trying to do is enhance what we have.	2 3 4 5 6 7 8 9	managers and supervisor and provide additional information for them, what we call a drill down which is taking some of the information down to a lower level of, depending on which way you look at it, lower level of detail for them to make decisions with.  Q. So, what you mean by business initiatives is pushing information out within your own organization. Is that what you mean by business initiatives?
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1 MR. NICHOLS:	screen, we do report KPIs to the Board, but
2 A. No, it won't solve the problem, but I guess, 2	they are high level KPIs, but I can drill down
3 the thing is this site basically creates a 3	through production divisions. The manager in
4 user interface for the users to use on a day-	hydro generation plant can drill down and look
5 to-day basis which is fairly user friendly 5	at the performance of Bay D'Espoir plant
6 which makes them easier to use, get the 6	versus Upper Salmon plant. That would
7 information that they need.	obviously not be of interest to my boss or to
8 MR. HAYNES:	the Board, but certainly of interest to him.
9 A. Maybe for the benefit of the Board, just to go 9	So, this KPI system is not just a 7 KPIs, it's
back to the key performance indicators. Hydro	a drilled down, very capable system and a
had started looking at key performance 11	very, very useful information tool. And if we
indicators before it became an issue at the 12	had an event on the system or if I wanted to
Public Utilities Board. And one of the 13	go in and look at something, I don't have to
deficiencies that we had was getting timely 14	trouble somebody, take them away from their
pertinent information to managers and 15	work. I can go in and I can, in a matter of
supervisors and vice-presidents included. And	minutes, go down and see what's happening. If
rather than going down and making a phone call 17	we had an event on the system, I can go into
or looking for someone to come up and go back 18	the EMS side and I can actually look at
and calculate our answer to a question or a 19	specifics in the terminal stations or the
20 performance indices for some particular thing.	generation plant. And it will be enhanced on
21 With the technology that we had, it was, you 21	an ongoing basis, I would suspect, for years.
22 know, accomplishable that we could actually 22	It's a very good, you know, information tool,
mine this information out of the J.D. Edwards 23	not only for the high level KPIs, but for
system, out of EMS system and when I go in, in 24	specifics to each areas of the operations.
25 the morning, if I want to go into the KPI 25 Q	. Just one quick question relative to the
Page 187	Page 188
1 facilities failure model. Has this been 1	stage.
2 identified as an item which will result in 2 MR.	NICHOLS:
3 cost savings in itself.	. No, it would be impossible to quantify at this
4 MR. HAYNES:	point in time, but it is a good tool, it's a
5 A. The facilities failure model is a risk 5	very common tool, popular among many utilities
6 assessment tool specifically for hydro plants 6	now and a growing database.
7 and it's in use at about 30 hydroin July of 7 Q	Okay, thank you. We've gone a little over the
8 2003, it's in use at about 30 different 8	time, I think, which we planned to break, Mr.
9 installations. And it's going to allow us to 9	Chair. I have some other questions for this
better quantify risk when we come in and 10	Panel, so, I think we need to -
	EENE, Q.C.:
12 a hydro plant. And it is anticipated, based 12 Q	. Mr. Chair, I wonder if it would be helpful, I

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on the experience in the industry, Acres, who 13 14 have designed this particular tool, have indicated it's been between 10 and 30 percent 15 savings. But it's going to be specific as to, 16 you know, trying to assess the risk of 17 delaying investment decisions or capital 18 19 replacement decisions. So, it's anticipated that we will, over the long term, save some 20 money by making more prudent decisions on the 21 22 hydro plant equipment, capital replacement

still have a faint hope of getting the Panel done today. I wonder is the Industrials could indicate how much longer they--right now we have no idea how much longer this Panel will be. We don't know if it will five minutes or five hours. Would it be helpful if the Industrials indicated the length of time and then Board counsel. It would give us some idea of what we're looking at. 22 CHAIRMAN: Q. Can you give use some indication there, Mr.

Hutchings, that would be helpful.

Q. So, there's a long terms expectation of

savings which is not quantifiable at this

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programs.

·	1-1 age IVE Hydro 8 2003 Capital Budget Application
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1 HUTCHINGS, Q.C.:	see where we can go from there.
2 Q. I took a little longer with that project than	2 (BREAK - 1:40 p.m. )
3 I had anticipated taking. I had in mind about	3 (RESUME - 1:52 p.m. )
4 an hour.	4 CHAIRMAN:
5 CHAIRMAN:	5 Q. I guess, Mr. Hutchings, I don't know how much
6 Q. An hour more?	faith we had that this is only going to take
7 HUTCHINGS, Q.C.:	7 an hour. It's been a long day already since
8 Q. It would probably be an hour more, I would	8 9:30 this morning. So, I think it's our
9 suspect.	9 inclination that we set this matter over now,
10 GREENE, Q.C.:	adjourn today, and reconvene on the 18th as
11 Q. And then, of course, we have Board counsel.	scheduled at 11:00. And I think the parties
Right now, I have no redirect, so far.	have had some discussion with regard to the
13 MR. KENNEDY:	written statement aspect.
14 Q. Board counsel will have no questions. The	14 MR. KENNEDY:
material has been covered already, singular	15 Q. I didn't with counsel with Hydro, Chair,
	simply because it would verify that the other
1	parties were okay with Hydro's proposal and I
17 GREENE, Q.C.:	
18 Q. So, there is a possibility we could finish by	18 can confirm that they are.
230 and the Panel would be relieved and Mr.	19 CHAIRMAN:
20 Haynes and Mr. Downton and Mr. Nichols could	Q. Okay, so, with regard to the written
go, and would not have to re-appear on the	submissions, the submission of Hydro would be
22 18th.	a reply to the written argument of the
23 CHAIRMAN:	23 Industrial Customers.
24 Q. I think we'll just take a five minute	24 MR. KENNEDY:
25 adjournment here now and we'll come back and	25 Q. Correct. And Newfoundland Power.
Page 191	Page 192
1 CHAIRMAN:	1 that nature.
2 Q. Excuse me, and Newfoundland Power. So, with	2 MR. ALTEEN:
3 that then, we'll adjourn until 11:00 on the	3 Q. Eat before we come, Mr. Chairman.
4 18th.	4 CHAIRMAN:
5 GREENE, Q.C.:	5 Q. Pardon me?
6 Q. Now, on the 18th we have this Panel to finish	6 MR. ALTEEN:
7 and Mr. Roberts, we have no indication that we	7 Q. We should eat before we come.
8 will finish in that day.	8 CHAIRMAN:
9 CHAIRMAN:	9 Q. No, I won't even object if you have a sandwich
10 Q. It's our expectation from what's been said,	at the table. Okay, thank you.
11 Mr. Hutchings, that we would finish on the	11 Adjourned 1:54 p.m.
12 18th and it would be our inclination to clue	11 Majourned 1.5+ p.m.
up the evidentiary portion, the cross-	
1	
15 HUTCHINGS, Q.C.:	
16 Q. That's definitely my expectation, Mr. Chair.	
17 GREENE, Q.C.:	
18 Q. So, sit from 11what is the schedule for the	
19 18th. We start at 11 and we go to 4:30 or as	
20 necessary.	
21 CHAIRMAN:	
Q. I would think probably something along the	
lines of from 11:00 until 1:00 with a short	
break, maybe half an hour or so, if need be	
and come back and finish off, something to	

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1 CERTIFICATE	
2 I, Judy Moss Lauzon, hereby certify that the foregoing is	
3 a true and correct transcript in the matter of	
4 Newfoundland and Labrador Hydro's 2005 Capital Budget	
5 Application, heard on the 8th day of October, A.D., 2004	
6 before the Board of Commissioners of Public Utilities,	
7 Prince Charles Building, St. John's, Newfoundland and	
8 Labrador and was transcribed by me to the best of my	
9 ability by means of a sound apparatus.	
10 Dated at St. John's, Newfoundland and Labrador	
11 this 8th day of October, A.D., 2004	
12 Judy Moss Lauzon	