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1 September 20, 2004
 2 (9:59 a.m.)
 3 CHAIRMAN:
 4 Q. Good morning. I guess there's no doubt
 5 according to the screen what we're here to
 6 consider this morning. This is an application
 7 by Newfoundland Power to seek approval of
 8 their 2005 capital budget. I'd like to begin
 9 by introducing the Commissioners. On my left
 10 is Commissioner Gerard Martin and on my right
 11 is Commissioner Walter Vincent. I see Mr.
 12 Alteen is here and Mr. Hayes.
 13 MR. ALTEEN:
 14 Q. Absolutely.
 15 CHAIRMAN:
 16 Q. You're both here representing Newfoundland
 17 Power. Mr. Kennedy is representing or is
 18 Board counsel, Board hearing counsel and do we
 19 have any other intervenors this morning? No
 20 other parties interested in making any
 21 presentations or -
 22 MR. KENNEDY:
 23 Q. Chair, I would confirm just for the record
 24 that while Newfoundland and Labrador Hydro
 25 provided notice of their intention to

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1 in the amount of \$675,730,000. Approving its
 2 revised forecast average rate base for 2004 in
 3 the amount of \$713,072,000 and approving its
 4 forecast average rate base for 2005 in the
 5 amount of \$740,142,000. And approving revised
 6 values for its rate base and invested capital
 7 for use in its Automatic Adjustment Formula
 8 for the calculation of its return on rate base
 9 for 2005 pursuant to Board Order P.U.19, 2003.
 10 Can confirm as well the appropriate notices
 11 have been provided to the public in accordance
 12 with the Act and specifically, public notice
 13 of this hearing was issued to The Evening
 14 Telegram, The Western Star, The Northern Penn,
 15 The Labradorian, The Aurora and The Grand
 16 Falls Advertiser.
 17 Rules of procedure governing the matter
 18 have been issued to the parties and unless the
 19 Board orders otherwise, they are the ones that
 20 would regulate the operation of the proceeding
 21 here today. I've already confirmed that
 22 Newfoundland and Labrador Hydro, although
 23 filing Notice of Intervention, subsequently
 24 withdraw or provided notice that they would
 25 not be intervening. I will indicate though

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1 intervene in this hearing, they subsequently
 2 provided notice that due to their own time
 3 constraints and their upcoming capital budget,
 4 that they would not be intervening in this
 5 hearing.
 6 CHAIRMAN:
 7 Q. Okay, thank you, Mr. Kennedy. I also would
 8 like to introduce Cheryl Blundon who is the
 9 Board secretary and seated in the back of the
 10 room over in the corner is Doreen Dray and
 11 Doreen is the economic and financial analyst
 12 to the Board.
 13 I would ask Mr. Kennedy now if you could
 14 put on the record, Mr. Kennedy, some of the
 15 matters that you normally put on the record at
 16 this stage.
 17 MR. KENNEDY:
 18 Q. Thank you, Chair. Chair, I can confirm that
 19 the Board has statutory authority to hear this
 20 matter pursuant to Sections 41, 78 and 80 of
 21 the Public Utilities Act. Before you is an
 22 application by Newfoundland Power for approval
 23 of its capital budget in the amount of
 24 \$48,141,000. Also seeking the Board to fix
 25 and determine its average rate base for 2003

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1 that they did request to remain on the mailing
 2 list so that the Clerk of the Board to take
 3 notice of that.
 4 Finally, Chair, I wish to confirm that
 5 pursuant to their mandate as the Board's
 6 financial advisors, Grant Thornton have filed
 7 a report in the form of a letter dated
 8 September 15, 2004 just addressed to Ms.
 9 Doreen Dray with the Board of Commission of
 10 the Public Utilities, confirming that they
 11 have reviewed the items of the Newfoundland
 12 Power capital budget and provides specific
 13 commentary concerning that. It should be
 14 self-explanatory, but I would draw attention
 15 to the fact that as indicated in Grant
 16 Thornton's letter at page 6 of their letter,
 17 or page 5, I think it is, actually--yes,
 18 sorry, page 5 of their letter, the second
 19 paragraph they indicate that at the time of
 20 writing their report there were certain RFI's
 21 that were outstanding from Newfoundland Power,
 22 had not been replied to yet, not from any lack
 23 of effort on the part of the utility I might
 24 add. Everyone is aware it's a short time
 25 frame and at the time that Grant Thornton was

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1 MR. KENNEDY:
 2 requested to write the report and issue it,
 3 those RFI's hadn't come in yet. And they
 4 indicate in that paragraph that these requests
 5 were still outstanding at the time of the
 6 report and "we will review the responses when
 7 received and provide further comments on this
 8 item, if necessary." And it's my intention as
 9 Board hearing counsel to contact Grant
 10 Thornton and I'll ask them to confirm in
 11 writing so that it can be filed on the record
 12 that they have completed that review of the
 13 RFI's and whether there's any specific
 14 comments they wish to make. And I believe
 15 that's it, thank you, Chair.

16 CHAIRMAN:
 17 Q. Thank you, Mr. Kennedy. Do you have anything
 18 to say in relation to anything Mr. Kennedy has
 19 said up to this point, Mr. Alteen?

20 MR. ALTEEN:
 21 Q. I have a brief opening statement, Mr. Chair,
 22 but are we going to mark this letter by Grant
 23 Thornton and put it on the record. It's
 24 probably convenient for the purposes of
 25 housekeeping.

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1 not, we would expect it to conclude in the
 2 morning.

3 CHAIRMAN:
 4 Q. The hours, of course we started at 10:00. I
 5 propose we go to 12:30 and from 2:00 until
 6 4:30. If there's any sign that we could
 7 finish this afternoon well then we'd be
 8 prepared to sit beyond that as opposed to
 9 coming back for an hour in the morning.

10 MR. ALTEEN:
 11 Q. And we'd be committed to that schedule also,
 12 Mr. Chairman.

13 CHAIRMAN:
 14 Q. And we'll have a break sometime around 11:15
 15 this morning and sometime around 3:15 this
 16 afternoon. And since you have Power Point
 17 presentations and I wouldn't want to interrupt
 18 that, any let's say phase of that, we'll set
 19 the break at a time that's convenient giving
 20 regard to the flow that you want to maintain
 21 in your presentation, Mr. Alteen. Okay.
 22 There will be a complete record of the
 23 proceedings maintained by the Clerk of the
 24 Board and all of the exhibits and submissions
 25 that are to be presented should be presented

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1 MR. KENNEDY:
 2 Q. Yes, I would suggest that we--because Grant
 3 Thornton is not actually tendering it as an
 4 Exhibit, I was going to suggest that we put it
 5 in as a consent document -

6 MR. ALTEEN:
 7 Q. We'll consent, Mr. Chairman.

8 MR. KENNEDY:
 9 Q. So it's Consent No. 1, Chair.

10 CHAIRMAN:
 11 Q. Before you get to your opening remarks, Mr.
 12 Alteen, I'd just like to finish up a few of
 13 the housekeeping items that I have. The
 14 procedure will be recorded and transcribed in
 15 the usual manner. Transcripts will be
 16 available, I would expect, tomorrow, Ms.
 17 Blundon, would that be fair? The sitting
 18 hours for today, and I don't know if the
 19 matter will go beyond today, Mr. Alteen, that
 20 pretty well entirely depends on you as to how
 21 long -

22 MR. ALTEEN:
 23 Q. I wouldn't want to shortchange my friend, Mr.
 24 Kennedy in the whole affair, Mr. Chairman, but
 25 we will be hopeful to conclude it today. If

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1 through her, so that a record is properly
 2 maintained. And having said that, unless
 3 there's any other preliminary matters, Mr.
 4 Alteen, are you prepared or ready to proceed
 5 with the presentation of your application?

6 MR. ALTEEN:
 7 Q. Yes, I am, Mr. Chairman, I'll have a brief
 8 opening statement. Good morning, Mr.
 9 Chairman, Commissioners. The application
 10 before you today is essentially asking for
 11 three things. It's asking firstly for an
 12 approval of Newfoundland Power's capital
 13 budget in the amount of \$48,141,000 and that
 14 is a Section 41 Public Utilities Act
 15 application and that section of the Act simply
 16 requires Newfoundland Power to bring forward
 17 its capital expenditures for the ensuing year
 18 prior to December 15th and that's the primary
 19 purpose we are here.

20 The second approval we seek, Mr.
 21 Chairman, is approval of the company's 2003
 22 rate base. That is, application is made under
 23 Section 78 of the Public Utilities Act and
 24 that is sought for purposes of regulatory
 25 continuity. It is a matter of the Board's

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1 MR. ALTEEN:
 2 practice that it is approved, the previous
 3 year's rate base is approved at the next
 4 capital budget hearing, so there's nothing
 5 unusual there.
 6 In terms of the third matter in which we
 7 seek an order, Mr. Chairman, it's the approval
 8 of revised values for rate based invested
 9 capital for use in the Automatic Adjustment
 10 Formula. The Automatic Adjustment Formula as
 11 Mr. Kennedy has indicated will establish the
 12 allowed return on rate base for Newfoundland
 13 Power for 2005 and that formula was approved
 14 by this Board at Newfoundland Power's 2003
 15 General Rate Application. Mr. Chairman, that
 16 application is brought under Section 80 of the
 17 Public Utilities Act which is the fundamental
 18 entitlement of the utility to earn a
 19 reasonable return on its rate base.
 20 Today, the Board shall hear evidence from
 21 three company witnesses, Mr. Chairman. The
 22 first witness will be Mr. Phonse Delaney, he's
 23 Newfoundland Power's Vice President,
 24 Engineering and Operations. He will speak to
 25 the majority of the expenditures in the

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1 in a specialist in information technology to
 2 speak to those expenditures because they tend
 3 to be a little out of the mainstream of those
 4 involved in maintaining, constructing and
 5 operating the electrical system.
 6 The third witness today will be Ms. Lisa
 7 Hutchens, Mr. Chairman. She is Newfoundland
 8 Power's Vice President Finance and Chief
 9 Financial Officer. She will speak to the
 10 issues related to Newfoundland Power's 2003
 11 rate base and the values needed for the
 12 operation of the Automatic Adjustment Formula
 13 on a go forward basis. On matters relating to
 14 the calculation of the 2003 rate base and the
 15 values that go into the formula, Grant
 16 Thornton has conducted its usual review and
 17 we've entered Consent No. 1 on the record.
 18 Mr. Chairman, Grant Thornton has found no
 19 discrepancies or unusual items in those
 20 calculations. So the calculations that
 21 directly affect the orders we're requesting
 22 have been already assessed by Grant Thornton
 23 to be reasonable. So Ms. Hutchens' testimony
 24 on this matter will be relatively summary.
 25 This will provide the Board with the

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1 capital budget. He is the gentleman who has
 2 ultimate responsibility for the infrastructure
 3 of Newfoundland Power, the electrical system
 4 infrastructure and the maintenance, the
 5 operation and the construction of it. He will
 6 be using a Power Point presentation and you
 7 can see the first slide up on the screen. We
 8 anticipate that his presentation will be in
 9 the order of an hour so it will conveniently
 10 meet the schedule, Mr. Chairman, that you've
 11 indicated, give or take 15 minutes. That
 12 Power Point presentation has been filed with
 13 the Board, it was filed on Friday past. We
 14 may wish to mark it for the purposes of this
 15 proceeding and I'd ask Ms. Blundon now if it's
 16 a convenient time to mark it. Perhaps, PD NO.
 17 1, seeing it's Mr. Delaney's Exhibit.
 18 The second witness you're going to hear
 19 from today, Mr. Chairman, is going to be Mr.
 20 Peter Collins. He's Newfoundland Power's
 21 Manager of Information Systems. He will speak
 22 to the information technology expenditures
 23 proposed in the 2005 capital budget. This
 24 Board has heard from Mr. Collins for the last
 25 number of years and it's routine that we bring

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1 appropriate comfort so it can grant the orders
 2 requested on that line.
 3 What we've asked Ms. Hutchens' evidence
 4 to focus primarily on in this proceeding, Mr.
 5 Chairman, is the issue of the amortization
 6 period for the unfunded liability associated
 7 with Newfoundland Power's defined benefit
 8 pension plan. And that's the very issue that
 9 Mr. Kennedy referred to that Grant Thornton
 10 had not had the opportunity to review up to
 11 the time of filing Consent No. 1.
 12 In a nutshell, Mr. Chairman, this issue
 13 is before you today because the amortization
 14 period affects Newfoundland Power's rate base.
 15 As a result of the last General Rate Order of
 16 Newfoundland Power, deferred charges are now
 17 part of Newfoundland Power's rate base. So in
 18 addition to plant, the electrical system
 19 plant, what I would call mainstream capital
 20 expenditures, these deferred charges are in
 21 the rate base. And the predominant one is
 22 deferred pension cost. At Newfoundland
 23 Power's last capital budget, this issue was
 24 raised and Newfoundland Power was requested to
 25 come forward with a report on an appropriate-

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1 MR. KENNEDY:
 2 -or the appropriateness of the current
 3 amortization period. Mr. Chairman, we're four
 4 or five years away from the end of a 25 year
 5 amortization period which commenced in 1984
 6 when that pension plan was created. And that
 7 period we will not be suggesting be changed in
 8 any way. It is prudent and it remains in the
 9 benefit of consumers in terms of the long
 10 term, Mr. Chairman. All of this is governed
 11 by pension laws and regulations and involves
 12 accounting practices and Ms. Hutchens will go
 13 through that. Board staff have raised what I
 14 think is the essential regulatory question, is
 15 whether customers are well served by the
 16 current amortization or might they be better
 17 served by a longer amortization period.
 18 Mr. Chairman, the staff's question is a
 19 reasonable one. Ms. Hutchens' direct evidence
 20 today will summarize Newfoundland Power's view
 21 on this and it will essentially set out and
 22 summarize what's in the record before you
 23 today. And part of that is in the report on
 24 deferred charges and rate base and the report
 25 on the amortization of pension funding which

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1 Adjustment Formula. All is filed. Mr.
 2 Chairman, that concludes my opening remarks.
 3 I'd like to introduce Ms. Colleen Combdon who
 4 is the lady behind the screen over there and
 5 is providing us with the technical assistance
 6 and should there be any call or need to call
 7 up documents, obviously, you can direct that
 8 request to Ms. Combdon and she's fully able
 9 and competent to do that. And with that, Mr.
 10 Chairman, if there's nothing arising, it would
 11 be time to call our first witness, Mr. Phonse
 12 Delaney.
 13 CHAIRMAN:
 14 Q. Very good. Mr. Delaney.
 15 (10:15 a.m.)
 16 MR. ALPHONSUS DELANEY (SWORN)
 17 CHAIRMAN:
 18 Q. Carry on, Mr. Alteen.
 19 MR. ALTEEN:
 20 Q. Mr. Delaney, you are a professional engineer
 21 and the Vice President Engineering and
 22 Operations with Newfoundland Power?
 23 MR. DELANEY:
 24 A. Yes, I am.
 25 Q. You have prepared or supervised a preparation,

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1 would have been filed with the application.
 2 And the rest is in the response to PUB-37 NP
 3 which is a detailed seven part information
 4 request from Board staff which deals with the
 5 matter in which Mr. Brushett is currently
 6 assessing.
 7 Mr. Chairman, so there's no proposal to
 8 change the status quo. The status quo is in
 9 the customers' interest, it's the least cost
 10 way to deal with the unfunded liability.
 11 Nevertheless, Newfoundland Power thinks it's
 12 kind of important that we actually spend a
 13 half hour or 45 minutes going through that on
 14 the record, Mr. Chairman, in a public and a
 15 transparent way. And that's what Ms. Hutchens
 16 will principally be doing.
 17 At the conclusion of the hearing, Mr.
 18 Chairman, I'm pretty confident I'll be
 19 submitting to you that the evidence before you
 20 in totality will justify the Board's approval
 21 in Newfoundland Power's 2005 capital budget in
 22 the amount of \$48,141,000; the Board's
 23 approval of Newfoundland Power's 2003 rate
 24 base as filed, and the Board's approval of the
 25 revised values we used the Automatic

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1 a Power Point presentation you are about to
 2 give to the Board?
 3 A. Yes, I have.
 4 Q. And you have supervised a preparation of all
 5 matters that have been filed with this Board
 6 relating to the engineering and operation of
 7 maintenance of Newfoundland Power's electrical
 8 infrastructure?
 9 A. Yes, I have.
 10 Q. And that includes a report filed in the
 11 principle filing and the responses to
 12 information requests?
 13 A. Yes.
 14 Q. And do you adopt the totality of this as your
 15 evidence in this proceeding?
 16 A. Yes, I do.
 17 Q. Mr. Delaney, would you give the Board a little
 18 bit of an idea of your background, please.
 19 A. Good morning, Chairman and Commissioners. I
 20 have worked with Newfoundland Power for 17
 21 years. During my career I have worked
 22 throughout the company. I've worked in
 23 Operations as an electrical engineer, I've
 24 been based in Stephenville, Corner Brook,
 25 Clarenville, Burin, Carbonear and St. John's.

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1 MR. DELANEY:
 2 I've been involved in all aspects of
 3 engineering and operations of Newfoundland
 4 Power and as well, I've worked as a system
 5 planning engineer in some of our planning
 6 functions at our head office.
 7 On the corporate level, I've led a number
 8 of initiatives. I've negotiated the
 9 operations and engineering practices of the
 10 Aliant pole deal, and I directed the out
 11 sourcing of telecommunications and
 12 transportation functions that are not core to
 13 our business.
 14 Q. Mr. Delaney, thank you for your background.
 15 Now, would you please begin your presentation.
 16 And, Mr. Chairman, I've purposely not
 17 punctuated this with a lot of questions on the
 18 assumption that you'd rather hear from Mr.
 19 Delaney than me.
 20 A. I will start my presentation by giving the
 21 Board a brief overview of Newfoundland Power.
 22 This map highlights our service territory. We
 23 serve approximately 222,000 customers in over
 24 600 communities on the island portion of the
 25 province. Our system is comprised of over

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1 variances.
 2 Q. Okay, Mr. Delaney, now would you take us to
 3 the 2005 Capital Plan?
 4 A. The Capital Plan is contained in Volume 1 of
 5 the pre-filed application. In developing the
 6 plan, I was particularly mindful in two areas,
 7 two key areas; their affordability and
 8 deliverability. Affordability is top of mind,
 9 in that capital expenditure has an impact on
 10 customer rates. So it's therefore important
 11 that we exercise the prudent judgment
 12 necessary to balance the needs to maintain a
 13 safe and reliable power system with a goal of
 14 stabilizing rates through customers. And
 15 second, I'm mindful of deliverability. I want
 16 a budget that can be delivered and executed in
 17 a productive manner.
 18 This is the chart contained on page 2 of
 19 the Capital Plan. The chart shows the
 20 historical capital expenditures from 2000 to
 21 present, as well as the forecast expenditures
 22 out to 2009. Given the extraordinary nature
 23 of the Aliant pole purchase, we've highlighted
 24 it to separate it from the overall total.
 25 Excluding Aliant, the capital expenditures

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1 10,000 kilometers of transmission and
 2 distribution lines, approximately 250,000
 3 poles, 137 substations and 23 hydro electric
 4 plants. We have employees and equipment
 5 positioned across the island in the 23
 6 communities indicated on the map. We need to
 7 maintain a presence throughout the island to
 8 ensure good customer service for both our
 9 urban and our rural customers. Newfoundland
 10 Power is a capital intensive business. Over
 11 the years we have spent over one billion
 12 dollars to build this electrical system.
 13 In this application, we are requesting
 14 the approval of the Board to spend
 15 \$48,141,000. In the remainder of the
 16 presentation I will take the Board through
 17 these three items. First, I'll discuss the
 18 2005 capital plan. That is a plan that we
 19 filed with this application. It's our long
 20 term plan that takes us out to 2009. Then
 21 I'll move into the specifics of the 2005
 22 capital budget. Here, I will describe and
 23 explain the major projects that we have
 24 upcoming next year. And I'll finish with an
 25 explanation of the 2004 capital expenditure

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1 have ranged from a low of \$42.8 million in
 2 2000 to a high of 60.3 million in 2003. And
 3 the company plans to invest approximately 252
 4 million dollars during the 2005 through to the
 5 2009 period.
 6 The Capital Expenditures Plan from 2005
 7 to 2009 are reasonably stable from year to
 8 year. We can see that in 2006 and 2007 there
 9 is some upward pressure. This is because of
 10 the large project in those two years to
 11 refurbish the Rattling Brook hydro plant, and
 12 I'm going to go into detail on that particular
 13 project later in the presentation.
 14 This is the chart on page 3 of the
 15 Capital Plan. This chart shows our capital
 16 expenditures by origin, excluding the Aliant
 17 pole purchase. What I'm showing here are the
 18 main drivers behind the capital program. Note
 19 that there is a relative consistency from year
 20 to year among the various drivers of the
 21 capital expenditure and the drivers are listed
 22 below: the plant replacement, system
 23 additions, information systems, etcetera.
 24 What this chart clearly shows is the
 25 significance of plant replacement in its plan.

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1 MR. DELANEY:
 2 Approximately 60 percent of the capital
 3 expenditures are for straight plant
 4 replacements. That’s about 30 million dollars
 5 per year spent on replacing the aging
 6 infrastructure and equipment of the power
 7 system. As I mentioned before, Newfoundland
 8 Power has spent over one billion dollars to
 9 build this electrical system and as this large
 10 and complex infrastructure continues to age,
 11 it deteriorates and as a consequence it will
 12 become less safe and less reliable and more
 13 expensive to operate and maintain. So we have
 14 our asset management program in place that
 15 seeks to extend the service life of our assets
 16 as long as practical. And we do this through
 17 routine inspections and regular maintenance.
 18 And that’s all based on the premise of finding
 19 a small problem before it becomes a big
 20 problem. So at some point, however, it
 21 becomes prudent to take the old asset out and
 22 put a new one in. We cannot run the power
 23 system to failure. It is unsafe and it’s not
 24 the least cost for our customers to be running
 25 the power system to failure. So after plant

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1 old. It cost over ten million dollars to
 2 build this system and replacement could be as
 3 high as 15 million. Although we don’t
 4 forecast that in this to replace this system
 5 in the next five years, you know, the
 6 technology is changing and vendor support may
 7 require us to revisit that plan. And Mr.
 8 Peter Collins is here, our Manager of
 9 Information Systems, he will be before the
 10 Board later to explain some of the items in
 11 this area. Third, capital expenditures can be
 12 impacted by extreme weather events. In 1984
 13 and again in 1994, the company was severely
 14 hit by sleet storms. Fortunately, we haven’t
 15 had a repeat in 2004. In 2003, Hurricane Juan
 16 caused enormous damage in Nova Scotia. So
 17 it’s impossible for us to forecast these
 18 extreme weather events. That concludes the
 19 2005 capital plan.
 20 MR. ALTEEN:
 21 Q. Okay, Mr. Delaney, would you now take us
 22 through the proposed 2005 capital budget,
 23 please.
 24 A. Mr. Chairman, this is a high level summary of
 25 the 2005 capital budget. This summary is

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1 replacement, the next big driver of capital
 2 expenditure is the customer sales growth.
 3 This expenditure is relatively straightforward
 4 to understand. Each year we connect new
 5 customers to the grid. That requires
 6 investments in the distribution system, in the
 7 poles and wires and equipment required to
 8 provide service to customers. Based on our
 9 current forecast of economic growth, customer
 10 sales growth will require just over 20 percent
 11 of all capital expenditure or about 11 million
 12 dollars annually for the next five years.
 13 The plan delivers stable capital
 14 expenditures over the next five years. It
 15 provides for customer growth and ensures our
 16 power system continues to be safe and
 17 reliable. We have, however, identified three
 18 significant risks with this plan. First,
 19 customer and energy sales growth is a
 20 significant risk. Should economic factors
 21 change such as customer or energy growth
 22 varies from the forecast, then the capital
 23 expenditures will change accordingly. Second,
 24 we have a customer service system, a large,
 25 complicated computer system. It’s 13 years

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1 found in Volume 1, Schedule A of the
 2 Application. The total budget is \$48,141,000
 3 and it’s broken down into several categories.
 4 These categories reflect the electrical
 5 system. They reflect the way we manage and
 6 engineer our assets in Newfoundland Power.
 7 For example, the energy supply category
 8 includes the capital expenditures required for
 9 our generation assets such as our hydro plants
 10 and our thermal plants. And since
 11 Newfoundland Power is primarily a distribution
 12 company, it’s not surprising to see that the
 13 majority of our capital investment is on the
 14 distribution system at \$28,635,000. I will
 15 describe to the Board, projects in each of
 16 these categories with the exception of
 17 information systems, which our Manager of
 18 Information Services, Peter Collins, will
 19 speak to.
 20 The first category is the energy supply
 21 category and here is the list of the projects
 22 pertaining to the company’s hydro electric and
 23 thermal power plants. In 2005, we proposed to
 24 spend \$3,361,000 in the energy supply
 25 category. This list is also found in Volume

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1 MR. DELANEY:
 2 1, Schedule B, page 1 of the Application.
 3 There are three major projects in the
 4 category; the hydro plant facility
 5 rehabilitation project at \$1,887,000; the
 6 Wesleyville gas turbine overhaul at
 7 \$1,124,000; and the Rattling Brook hydro plant
 8 refurbishment at \$350,000. I'll now go
 9 through each project individually.
 10 (10:30 a.m.)
 11 The hydro plant facility rehabilitation
 12 project consists of a number of items, the
 13 largest of which is a refurbishment of
 14 Fenelons Pond dam which is shown here on the
 15 screen. This dam is part of our Seal Cove
 16 hydro system on the Avalon Peninsula and was
 17 originally built in 1946. The estimated cost
 18 to refurbish this dam is \$390,000.
 19 Newfoundland Power operates 23 hydro plants.
 20 The average age of our plants is 59 years and
 21 they provide a low cost and reliable
 22 electrical energy. An item such as the
 23 Fenelons Pond refurbishment will be identified
 24 and prioritized through our dam safety
 25 inspection program. We operate approximately

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1 this spillway structure is in advanced stated
 2 of deterioration. It's a wooden structure.
 3 This would be replaced with a concrete
 4 structure. This here as well has got to be
 5 designed to let the flood waters through
 6 whenever you get, sort of a flood condition on
 7 this pond and it has to be designed
 8 specifically to get the flood water through,
 9 otherwise it will over top the dam, the flood
 10 could over top the dam and that would lead to
 11 complete failure of the dam whenever you over
 12 top. Dams are not designed to be over topped.
 13 So that's a concern with this particular
 14 structure too, that this spillway is designed
 15 to get the right amount of water through under
 16 flood conditions. There's a competitive
 17 market in Newfoundland for this type of heavy,
 18 civil construction work and we'll get this
 19 work done through least cost competitive
 20 tendering.
 21 The second project in the energy supply
 22 category is the Wesleyville gas turbine
 23 overhaul. It is estimated at \$1,124,000. The
 24 gas turbine was recently relocated from the
 25 Burin Peninsula where it was under utilized to

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1 150 dams and we adhere to the Canadian Dam
 2 Association guidelines to manage and engineer
 3 these assets. These are rigorous guidelines
 4 and they are the predominant standard in use
 5 across the country. So if I take you to the
 6 slide here, this is an earth filled dam. This
 7 would be the upward face here holding back the
 8 water on Fenelons Pond. And this here is the
 9 spillway of the dam. Now when you look at
 10 this dam, if it were in good shape, you would
 11 see large boulders on the upstream face and
 12 along the crest of the dam. What we have here
 13 is just a large amount of erosion that's
 14 happened over time. Like this coffer, this
 15 wooden wall through the dam here should not be
 16 exposed. So you got all your what they call
 17 riffraff, it's a large--large boulders have
 18 all eroded or, you know, over the years have
 19 through wave action, etcetera, have become
 20 displaced and fell back into the pond. So we
 21 need to get, you know, all this riffraff put
 22 back on and fill done in the dam. Another
 23 part here, you see significant erosion here
 24 where the water has worn away the material of
 25 the dam and moved it back into the pond. And

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1 Wesleyville and New-Wes-Valley is the
 2 community, to improve the reliability in the
 3 Bonavista north area. It has already
 4 demonstrated its worth. On April 25th and
 5 April 26th, earlier this year, we lost a
 6 transmission line serving the Bonavista north
 7 area due to a sleet storm. And while that
 8 line was down, the gas turbine was able to
 9 provide power to the community for 21 hours.
 10 This project is needed to ensure the gas
 11 turbine remains safe and reliable. I'll take
 12 you to the slide. This is the outside of the
 13 gas turbine facility. This is the entire
 14 facility. Here we have the fuel tanks, the
 15 large building which houses the generator, the
 16 turbine and the controls. And here we have
 17 the exhaust stacks of the gas turbine. So
 18 we're moving--this is the outside of the
 19 facility. We're moving in the outside of the
 20 facility into the inside here, and this is the
 21 gas generator itself. And this is what this
 22 project is all about, it's refurbishing this
 23 gas generator. This generator is actually the
 24 same type of generator that's used in a jet
 25 airplane, same type of jet--it's a jet engine.

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1 MR. DELANEY:
 2 To give you some perspective on this thing,
 3 it--when we push the start button on a gas
 4 generator, it goes from a stationary position
 5 up to 4,800 revolutions per minute. It goes
 6 from room temperature up to 1,100 degrees
 7 fahrenheit in ten minutes. So it's a machine
 8 that has to be very precise. Looking inside
 9 this machine we have a--Rolls-Royce, who are
 10 the manufacturers came and did a boroscope
 11 analysis inside this machine. A boroscope is
 12 a camera on the end of a fibre optic snake
 13 that you can kind of get into the machine and
 14 have a look around inside. And inside this
 15 machine they found corrosion on the blades and
 16 to a trained eye, there's also impact damage.
 17 Something got into this gas turbine through
 18 the air intake, some small pebble or something
 19 like that and caused impact damage. The
 20 equipment manufacturers tell us we should
 21 refurbish this unit. The corrosion is--when
 22 you think of the tolerances that a machine
 23 that goes from zero to 4,800 RPM in ten
 24 minutes has to meet, those tolerances, we
 25 think it's prudent to refurbish this unit.

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1 current estimate for the entire project is
 2 11.4 million dollars. We plan in next year in
 3 2005 to spend \$350,000 on engineering with the
 4 actual construction being done in 2006 and
 5 2007. Like I said, this project is being
 6 driven by the need to replace almost two
 7 kilometers of wood state penstock. We've
 8 replaced a lot of penstock over the years but
 9 two kilometers would represent the biggest job
 10 we've undertaken. This 46 year old wood state
 11 penstock is deteriorated and it must be
 12 replaced in the near term. The penstock, just
 13 to take you through the pictures here, is 2. 1
 14 to 2.3 meters in diameter. And you can see
 15 the water just coming out of the penstock
 16 here. It's in an advanced state of
 17 deterioration. If you look at the penstock
 18 here and the water is spraying out of the side
 19 going down to the surge tank.
 20 There's a tremendous amount of energy in
 21 a pipe, 2.1 to 2.3 meters thick delivering 14
 22 megawatts of power. So this is at the end of
 23 its useful life, we wanted to get it out of
 24 the system, we wanted to replace it. While
 25 we're doing that, we want to take a look at

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1 So, our plan next year is to unbolt this gas
 2 generator and ship it off to a refurbishment
 3 facility where it will be overhauled. But at
 4 the same time we're going to--there's a market
 5 in jet engines and we will go to the market
 6 and see if we get something off the shelf and
 7 compare that versus the refurbishment, to make
 8 sure this is all done at least cost.
 9 The next project, Mr. Chairman, in the
 10 energy supply category is the Rattling Brook
 11 hydro plan refurbishment at \$350,000.
 12 Rattling Brook plant is located in the town of
 13 Norris Arm in central Newfoundland. This
 14 plant was built in 1958. It is our biggest
 15 hydro electric plant. It has a nominal
 16 capacity of 12.75 megawatts and its normal
 17 production is 69.4 gigawatt hours per year.
 18 So just to put that in perspective, let's say
 19 at five cents a kilowatt hour, this plant
 20 produces three and a half million dollars in
 21 power every year. This project is being
 22 driven by the need to refurbish the 46 year
 23 old penstock, need to replace, sorry, the 46
 24 year old wooden penstock. And this is going
 25 to be a big and complicated project. Our

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1 the whole plant. We've got the surge tank,
 2 this is 312 feet high. This picture is
 3 actually spread out a bit so that we can get
 4 the surge tank into the picture. There's some
 5 rehabilitation work got to be done on this
 6 surge tank and if we can get it now, it will
 7 avoid a big cost down the road, so we can get
 8 it as part of this overall project. And when
 9 we go into the plant, it was built in 1958,
 10 there's a lot of old electronics, some old
 11 mechanical equipment. And while we have this
 12 plant down it will give us a window of
 13 opportunity to get some of this old stuff
 14 done. This is the synchronizer that's
 15 required to synchronize the system, the plant
 16 to the system to bring it back on. And it's
 17 got the vacuum tube still in it so it's
 18 something that's obsolete. The surge tank,
 19 just to give you an example, that's basically
 20 the pressure relief device of this plant. If
 21 this plant shuts down there has to be some way
 22 to release the pressure so the pressure
 23 actually shoots up through the penstock--
 24 through the surge tank. To ensure the
 25 project, the full 11.4 million dollar project

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1 MR. DELANEY:
 2 proceeds in an orderly and planned manner, in
 3 2005 we want to focus on engineering. Before
 4 one tender is let or any of the materials
 5 purchased, I want to make sure that we've
 6 vetted this project and all the i's are dotted
 7 and all the t's are crossed. Just to give the
 8 Board some insight into the need to spend the
 9 considerable time on the detailed engineering,
 10 I'll just highlight one item that's got to be
 11 engineered in 2005 and there are many, many
 12 complications in this project. Our current
 13 plan envisions replacing the penstock in two
 14 sections. Now we're planning that way to
 15 limit the construction window so we can avoid
 16 spillage of water. We can dam up the water so
 17 we don't need to lose any water by narrowing
 18 down the construction schedule. So we'll do
 19 it in two sections, that's the plan. But
 20 there's risks associated with that that have
 21 to be evaluated. When you do the penstock in
 22 two parts you have to find a way to keep water
 23 in the top part of the penstock when you do
 24 the bottom part because if you let the water
 25 out, if there's no water inside the penstock,

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1 expenditure is broken down into six projects
 2 as shown on the screen. Now I'm going to
 3 describe in detail the two largest projects;
 4 the replacement and standby substation
 5 equipment project at \$1,052,000 and the
 6 distribution system feeder remote control
 7 project at \$1,114,000.
 8 This slide shows several of the major
 9 equipment items that can be found in our
 10 substations. Here we have the--pointing at
 11 the slide--the substation transformer. Most
 12 substations are built around the substation
 13 transformer. It's the device that's
 14 converting the voltage that comes in on a
 15 transmission line to the voltage that goes out
 16 on the distribution line. Substations contain
 17 battery banks. Battery banks are actually
 18 vital to the power system operation because
 19 when you think of it, when the power goes out,
 20 everything runs on batteries. So batteries
 21 are vital to the operation of the power system
 22 when the power goes out.
 23 Potential transformers, these are the
 24 devices that sense the voltages on the line
 25 and send the signals to a control system,

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1 it will collapse and I certainly don't want
 2 that on my hands, a collapsed penstock. So
 3 there are ways to do it. You can design a
 4 bulkhead, certain transition joints. There
 5 are things that can be done to do this in two
 6 parts and spread the capital out over time.
 7 So we'll have to evaluate those costs and
 8 those risks associated with doing it in two
 9 stages versus one stage. So there is a need--
 10 I need the detailed engineering to ensure this
 11 project is delivered at the least cost.
 12 That's our focus for next year.
 13 This is our 2005 capital budget for
 14 substations. This list of projects--this is
 15 moving down through the list now. I'm out of
 16 energy supply into substations. This is our
 17 2005 capital budget as shown in Schedule B,
 18 page two of the application. Now a substation
 19 contains all the high voltage equipment such
 20 as transformers and breakers and voltage
 21 regulators. And this equipment is used to
 22 control the transmission and distribution of
 23 power. We managed 137 substations across the
 24 province. In 2005 we propose to spend
 25 \$3,337,000 in the substations category. This

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1 which operate circuit breakers. So this then
 2 is basically picking up what the voltage is on
 3 the line, sending a representative sample of
 4 that voltage at low voltage, which in turn
 5 goes into the control system and we're able to
 6 detect where there's problems on the line
 7 through a potential transformer and send that
 8 over and open and close the circuit breaker,
 9 and a circuit breaker is the same as a circuit
 10 breaker in your house. It opens and closes
 11 the line.
 12 In total, we manage about 1500 pieces of
 13 major substation equipment. A substation
 14 transformer installed will cost between one
 15 and two million dollars. A substation circuit
 16 breaker installed will cost 125 to \$250,000.
 17 These are expensive items. In managing
 18 substation assets, our goal is to extend the
 19 service life of the equipment as long as
 20 practical. That involves a sophisticated
 21 maintenance strategy and you can't understand
 22 this capital expenditure unless you understand
 23 the maintenance strategy behind it. And a
 24 maintenance strategy is simple. Is based on
 25 the fact that most of this substation

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1 MR. DELANEY:
 2 equipment is oil filled.
 3 So at regular intervals what we do is we
 4 take samples of the oil, and this is a
 5 relatively new development for us based on new
 6 industry practices and new chemical analysis
 7 techniques. At regular intervals, we take
 8 samples of the oil from the equipment and have
 9 it analyzed for its chemical content at a
 10 laboratory that specializes in this type of
 11 analysis. That oil sample will establish the
 12 baseline or the fingerprint of the device. So
 13 what we do is, at regular intervals, we'll
 14 sample the oil in this equipment, and if
 15 there's no change in the chemical content of
 16 the oil, well there's no need to haul this
 17 equipment apart and do maintenance. It
 18 prevents unnecessary work. But if we see a
 19 change in the chemical content of the oil, if
 20 there's more copper or there's more paper or,
 21 you know, some change in that chemical
 22 content, then we know there's something going
 23 on inside the machine and that will trigger a
 24 maintenance overhaul of the equipment to
 25 identify the source of the problem.

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1 sample, there's something wrong with this
 2 unit. It was, you know, there was some change
 3 in the chemical content. So we knew that. We
 4 were able to get our portable transformer over
 5 to Deer Lake, take that transformer out of
 6 service and do the work before the transformer
 7 failed. That whole thing cost us about
 8 \$30,000 and about a 15-minute outage for
 9 customers. So it points to the value of a
 10 maintenance strategy in terms of minimizing
 11 these capital expenditures, and I'm certain
 12 with this Replacement of Standby Substation
 13 Equipment Project, we're minimizing our
 14 capital expenditures.
 15 Mr. Chairman, this is our system control
 16 centre where we monitor and control much of
 17 the power system. Another of the big projects
 18 in the substations category I alluded to
 19 before is the Distribution Feeder Remote
 20 Control Project at one million--I think it was
 21 \$1,052,000. No, \$1,114,000. We started that
 22 project in 2002 and we plan to continue in
 23 2005 and for the duration of the capital plan.
 24 We have 300 feeders in our system. Each has a
 25 device that monitors and controls the feeder.

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1 Through this approach, we're better able
 2 to manage all these big equipment items, avoid
 3 unnecessary work and we're reducing our
 4 capital cost because we're preventing
 5 premature failures of equipment. There's a
 6 good example. In 2002, we lost a substation
 7 transformer in Burin. It failed and caused a
 8 nine-hour outage. The direct cost to fix the
 9 transformer was \$170,000. But that failure
 10 led to a chain of events as the systems
 11 interconnect, as is like to do, first it
 12 deferred the relocation of the gas turbine
 13 from Salt Pond to Wesleyville, because we had
 14 a nine-hour outage, we had customer concerns.
 15 So we decided that we would not relocate the
 16 gas turbine from Salt Pond to Wesleyville, and
 17 that caused an increase in cost. And then we
 18 bought a supplemental before the Board to
 19 install a new transformer in that area to
 20 provide backup for the unit that had failed.
 21 In contrast, the exact same thing
 22 happened in Deer Lake a year after. We had
 23 the same problem, a tap changer problem in the
 24 transformer. But this time, we picked it up
 25 during an oil sample. We picked up the oil

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1 The device is either a relay or reclosures.
 2 This project involves the replacement of these
 3 reclosures and relays with newer, more
 4 technically advanced units, and the project is
 5 timely, due to the age of the existing
 6 equipment. By the end of 2005, we will be able
 7 to monitor and control 115 of our 300 feeders
 8 from our System Control Centre, and what we're
 9 doing in the field is we're replacing the
 10 relays and reclosures for each of these
 11 feeders and bringing all the intelligence back
 12 to the System Control Centre.
 13 With the remote monitoring and control of
 14 feeders, our operators now at the System
 15 Control Centre can quickly pinpoint a trouble
 16 spot and direct the field crews accordingly.
 17 There's instances when the operators can just
 18 restore power from the System Control Centre
 19 and not dispatch any field staff. This has
 20 reduced our outage durations. It has reduced
 21 a lot of us out there stumbling around, you
 22 know, out there trying to find the problems,
 23 because there's no intelligence on these
 24 systems that don't have the remote control,
 25 and it's reduced our cost. It's reduced outage

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1 MR. DELANEY:
 2 durations, reduced costs. Just by comparison,
 3 on the feeders that we don't have this remote
 4 control technology, we got to wait until the
 5 customer calls in before we know there's an
 6 outage. So when the customer calls in, is
 7 that one customer? Is it localized or is it
 8 widespread? We don't know until more
 9 customers call in or we dispatch the crews to
 10 go out and look. So overall this has improved
 11 our operations tremendously, this program.
 12 This is our transmission category,
 13 working down through the list of the Capital
 14 Budget, and it can be found in Schedule B,
 15 page three. Transmission lines run from
 16 substation to substation. They operate at
 17 very high voltages. In our case, we have
 18 138,000 volt lines and 66,000 volt lines.
 19 They're often remotely located, accessible by
 20 snowmobile or ATV. We operate 110
 21 transmission lines and it has an overall
 22 length of over 2,000 kilometres. 30 percent
 23 of our transmission is more than 40 years old.
 24 We manage the transmission lines by visually
 25 inspecting every line every year and every

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1 five-kilometre section of transmission line
 2 11L that runs from our Tors Cove hydro plant
 3 into our Mobile substation. This line was
 4 built during World War II and is now 62 years
 5 old and deteriorated to the point that
 6 replacement is necessary.
 7 And finally, we plan to rebuild a five-
 8 kilometre section of transmission line 124L
 9 that runs between Clarenville and Gambo. This
 10 line is 40 years old. The problem with the
 11 124L line is one of clearance. This line
 12 operates at 138,000 volts. On this line, we
 13 don't have enough clearance between the line
 14 and the ground, particularly in winter when
 15 you get ice building up on the line and at the
 16 same time you have a large amount of snow
 17 cover. We got a lot of snowmobilers that
 18 travel this particular transmission line
 19 corridor, as they do all of our transmission
 20 line corridors. So the adequacy of this
 21 ground clearance is a great concern for public
 22 safety.
 23 Mr. Chairman, this is the 2005 Capital
 24 Budget for distribution, which is found in
 25 Schedule B on page four. Newfoundland Power

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1 five years, we conduct a climbing inspection,
 2 a detailed climbing inspection. The problems
 3 and deficiencies that we find through that
 4 course of inspection drive the transmission
 5 capital budget.
 6 In 2005, we propose to spend \$2,597, 000
 7 on rebuilding and refurbishing transmission
 8 lines, and no new transmission lines are
 9 planned. There are three big items in this
 10 transmission line category and the cost in
 11 total, \$1,550,000. And then there's a large
 12 number of small items totalling \$1,047,000 and
 13 these small items are small repairs on about
 14 50 lines. But I'll go into the three big
 15 items in detail.
 16 (10:49 a.m.)
 17 First, we plan to rebuild an eight-
 18 kilometre section of transmission line 43L
 19 that runs between the communities of Heart's
 20 Content and New Chelsea. This line is 48
 21 years old. We've extended the service line as
 22 long as it is prudent and we're concerned
 23 about the overall condition of this line that
 24 carries 66,000 volts.
 25 The second line we plan to rebuild is a

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1 is primarily a distribution company. It's our
 2 largest category of expenditure. We operate
 3 over 8,000 kilometres of distribution lines to
 4 serve 222,000 customers. The proposed capital
 5 expenditures in distribution category amount
 6 of \$28,635,000 or 59 percent of this total
 7 budget.
 8 I'm going to approach my presentation of
 9 distribution in two parts. First, just to
 10 take you through, I'm going to explain the
 11 portion of the distribution budget that's
 12 primarily driven by customer growth. In that
 13 area, we have extensions, meters, services,
 14 streetlights, transformers and down here,
 15 feeder additions and upgrades to accommodate
 16 growth. These are the category the projects
 17 are primarily driven by growth.
 18 Second, I'm going to explain how we
 19 manage the existing network, the existing
 20 8,000 kilometres of line out there, and to do
 21 that, I'm going to explain the reconstruction
 22 project, the rebuild distribution lines and
 23 the distribution reliability initiative. This
 24 is the way I kind of think of distribution,
 25 customer growth and then maintaining and

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1 MR. DELANEY:
 2 running existing system as we have.
 3 Just for completeness, I'll explain the
 4 remaining items on this list. We have the
 5 Aliant pole purchase. That covers the 2005
 6 instalment associated with the Support
 7 Structures Agreement that we entered into with
 8 Aliant and that was brought before the Board
 9 and approved by the Board in 2001 and the
 10 final instalment will be made in 2005.
 11 We have a project here Relocate-Replace
 12 Distribution Lines for Third Parties. It's
 13 somewhat self-explanatory. Throughout the
 14 year, we'll get requests from municipalities,
 15 provincial government, federal government,
 16 Aliant, cable TV, property developers, various
 17 requests to relocate a line and customers pay
 18 for a portion of the relocation of that line.
 19 And we have interest during construction which
 20 is the interest that will be charged to work
 21 in progress in distribution throughout the
 22 year.
 23 Let's look first at the customer growth
 24 components of distribution. About 40 percent
 25 of the distribution category or \$11.4 million

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1 expenditures to determine per unit costs of
 2 connecting new customers. In recent years,
 3 growth has been more robust than forecast, and
 4 that's put some upward pressure on the capital
 5 expenditure required for customer growth. In
 6 2005, we are forecasting 2,461 new customers
 7 will attach to the system, and that compares
 8 to 2,832 we expect to connect in 2004.
 9 Another part of managing growth is to
 10 step back and look at the overall distribution
 11 network with engineering modelling and
 12 analysis and determine whether we have to
 13 install new feeders to increase capacity,
 14 whether we have parts of the system that are
 15 overloaded due to the general growth in an
 16 area, in a particular geographical area. And
 17 this budget contains 319,000 for a new feeder
 18 out of the Virginia Waters substation on the
 19 east end of St. John's, and this is needed
 20 because we have seen a large amount of growth
 21 in the Stavanger and the Clovelly areas and we
 22 did a planning study, which is filed with this
 23 application, which shows that the least cost
 24 way to handle some of the overload conditions
 25 that we have in that area is to build this new

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1 in capital expenditure is needed to connect
 2 new homes and businesses to the power grid. A
 3 new customer will require new poles, new
 4 conductors, new wires. We have to install
 5 distribution transformers. We run service
 6 wires from the utility pole to the premises
 7 and we install a meter. Typically for every
 8 three or four customers connected to the
 9 system, there's a new street light involved.
 10 This is an area where we contract out the
 11 majority of the line work in a competitive
 12 tendering process. The work involved with
 13 construction of distribution lines is
 14 relatively simple construction work and is
 15 highly standardized. So over the years, we've
 16 reached these costs, in terms of extending
 17 service to new customers, by developing our
 18 contractors and working with our contractors,
 19 and we have a highly competitive market in
 20 Newfoundland for line construction work, which
 21 we avail of.
 22 To develop the estimates for capital
 23 required for customer growth, we develop a
 24 customer growth forecast, based on economic
 25 modelling, and we consider the historical

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1 feeder.
 2 So here are the three main projects that
 3 show our strategy for capital expenditure
 4 related to the existing 8,000-kilometre
 5 distribution network. I'll go through each
 6 one of these individually. The first two, the
 7 Distribution Reliability Initiative and
 8 Rebuild Distribution Lines, are proactive
 9 approaches to managing the network and
 10 reconstruction, by its nature, is reactive.
 11 The Distribution Reliability Initiative
 12 Project is estimated at \$872,000, and in 2005,
 13 we plan to rebuild a feeder that runs from
 14 New-Wes-Valley to Lumsden. We started this
 15 work in 2004. It was a two-year project, so
 16 we're planning to do the rest of the
 17 reliability rebuild on this feeder in 2005,
 18 and we're planning to start on the rebuild of
 19 the Gander Bay to Carmanville feeder in this
 20 area.
 21 We have 300 distribution feeders. We did
 22 a detailed analysis of the worst feeders in
 23 the systems in terms of reliability
 24 performance. We ranked our feeders and its
 25 filed with this application. We've ranked the

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1 MR. DELANEY:
 2 feeders by SAIDI and SAIFI statistics. Now
 3 the SAIDI, these are the statistics that are
 4 used Canada wide. The SAIDI is the measure of
 5 the number of hours that a customer is without
 6 power. And the SAIFI is simply the number of
 7 outages that a customer experiences.
 8 So we ranked all of our feeders. Then we
 9 looked at each feeder individually to
 10 determine the root cause of the poor
 11 reliability problem. In some cases, we'd
 12 already had taken action to solve the
 13 reliability problem. In other cases, you find
 14 the reliability problem may be related to
 15 trees. So there's nothing you're going to do
 16 in capital to address a reliability problem
 17 related to trees. It's about tree trimming.
 18 So it's not only a capital exercise. It's an
 19 exercise in managing the whole company. But
 20 as you work down through the list of the worst
 21 feeders by reliability, you're going to find
 22 these feeders that exhibit poor reliability
 23 performance because the overall line--because
 24 of the overall condition of the line, overall
 25 deterioration of the line, factors such as the

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1 lines. I'll just take you through some of
 2 these now.
 3 (11:00 a.m.)
 4 Up here in this corner, we have cutouts,
 5 defective cutouts. You see these out on the
 6 lines. It's a mechanical switch that opens or
 7 closes a distribution transformer or branch
 8 line. A lineman would use a stick to open and
 9 close it. We're finding these are breaking
 10 out there in great frequency. You go into any
 11 safety meeting in this company between January
 12 and April and this will be top of the list of
 13 the linemen. They need to open and close
 14 these and they're falling apart as they're
 15 opening and closing them and they're ending up
 16 with the stick with the high voltage wire at
 17 the end of the stick and it's a safety
 18 concern. So part of the rebuild distribution
 19 lines project is replacing defective cutouts,
 20 and these are two that are broken in two.
 21 Industry-wide problem.
 22 Rusting transformers. In our salt
 23 corrosive environment in Newfoundland, we have
 24 a big, big problem with rust, corrosion on
 25 transformers. We've moved to stainless steel,

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1 line is simply not strong enough to withstand
 2 the environmental conditions in which it must
 3 operate, in terms of the high wind and ice and
 4 stuff, and you'll find lines that have
 5 deteriorated that are away from the road, sort
 6 of these characteristics. And these are the
 7 types of problems we found in the Wesleyville
 8 02 and the Gander Bay 02 feeders. Over the
 9 past five years, customers on these feeders
 10 have experienced reliability three and a half
 11 times worst than the company average, and that
 12 indicates to me--I've travelled along these
 13 feeders several times. These feeders are
 14 simply worn out.
 15 Mr. Chairman, this is the--while the
 16 distribution reliability project focuses on
 17 specific geographical areas, the rebuild
 18 distribution lines project deals with problems
 19 that are system wide and not necessarily
 20 geographically specific. These are problems
 21 that we have everywhere on the distribution
 22 system. This project is estimated at
 23 \$4,210,000. And this slide shows some of the
 24 problems that are out there that we are
 25 addressing under the rebuild distribution

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1 ten-year warranty, a good decision that we
 2 made and we're having good success with
 3 stainless steel out there with the corrosion
 4 problem.
 5 Sleeves, automatic sleeves, these are
 6 basically connections connecting two pieces of
 7 wire together. Back in the early 90s, there
 8 was a major productivity gain with automatic
 9 sleeves. Easy way to hook wire together.
 10 They've proven throughout the industry to not
 11 be that great. They're rusting. So this is a
 12 problem we're dealing with, as are all
 13 utilities, with automatic sleeves
 14 deteriorating out there.
 15 And in St. John's particularly, padmount
 16 transformer, similar to this problem with old
 17 transformers, we have corrosion and these
 18 transformers reaching the end of their lives.
 19 There are numerous problems when you put a
 20 padmount transformer on a person's property,
 21 in terms of backfilling and landscaping and
 22 other things. But these have all reached the
 23 end of their lives, so there's a fair amount
 24 of corrosion on them as well. So that's part
 25 of what we're addressing. There are other

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1 MR. DELANEY:
 2 things too, but that give you the feel for
 3 there are a number of items out there in the
 4 distribution system that need to be handled.
 5 My chief concern with all this work is
 6 it's a big system. There's a lot of work.
 7 How do we go about it in a productive,
 8 methodical, planned fashion? To achieve this,
 9 our procedure is to inspect our distribution
 10 lines on a five-year cycle and there we'll
 11 develop our estimates and plans for the
 12 upcoming year, and the five-year cycle is
 13 relatively common throughout the industry.
 14 So then what we do in executing the work
 15 is we have utilized what we've come to call in
 16 the company as a mobile workforce. We
 17 assemble a large number of crews, typically,
 18 you know, 12 or 15, you know, the numbers vary
 19 but that magnitude of crews. We set out a
 20 longer day, usually a ten-hour day. And we
 21 pre-assemble all the material, do all the
 22 staging and then we'll take the power off at
 23 the customers' convenience, you know,
 24 scheduled with the customer, a lot of contact
 25 back and forth with the customer, arrange

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1 year, either through inspections or otherwise,
 2 that have to be dealt with immediately because
 3 they're either broken or they're in a state
 4 where a imminent failure. So far this year,
 5 for example, these are typically very small
 6 projects. There's been 160 jobs in the
 7 reconstruction projects so far this year and
 8 the average cost of those jobs is \$8600, and
 9 we estimate our--we do our estimate for future
 10 years cost based on history.
 11 This is the general property budget.
 12 It's found in Schedule B, page five. It's
 13 \$1,016,000 and just over two percent of the
 14 total budget. Newfoundland Power has 36
 15 offices, service buildings and district
 16 buildings. We manage 25,000 metres of space
 17 and we plan to spend \$325,000 or less than one
 18 percent of our capital on property. We
 19 propose to spend \$691,000 on tools and
 20 equipment. Operating a power system requires
 21 many tools, such as the hot line tools used to
 22 perform this complex job here. In this job,
 23 the linemen have used these hot line sticks to
 24 hold off the energized conductor. So this is
 25 138,000 volts running here. So they're doing

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1 typically a three-hour outage, and we blitz
 2 the thing. We blitz the feeder with the large
 3 number of crews. We found that that approach
 4 to rebuilding distribution lines project has
 5 been highly effective and productive. And I
 6 also note, there's a project in the
 7 information systems budget for the development
 8 of a line inspections software database that's
 9 going to help us further improve our
 10 efficiency and organization of the work with
 11 respect to this project.
 12 The last item in managing the
 13 distribution network is the reconstruction
 14 project. Reconstruction is used to fix
 15 distribution plant that has failed or is in
 16 the danger of imminent failure. In this
 17 picture here, we can see some storm damage
 18 down in Ferryland. As a result of a storm,
 19 the cribs and the poles were washed away and
 20 the poles ended up--the picture is not there,
 21 but the poles ended up falling down. So this
 22 is the type of problem that we deal with
 23 reconstruction. When you're managing a big
 24 network, there's a large number of items that
 25 will come to your attention throughout the

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1 this job, keeping the power on, and doing this
 2 job on this line. So of course, this hot line
 3 gear has to have a very high standard and if
 4 it fails any of its tests, we replace it. So
 5 customers are not seeing an outage in this
 6 particular--for this particular job.
 7 Mr. Chairman, in 2005, we propose to
 8 spend \$2,642,000 in the transportation
 9 category, as seen here in Schedule B, page
 10 six. We operate a fleet of some 400 vehicles,
 11 which include 80 heavy-duty vehicles, 195
 12 passenger vehicles, and 125 off-road vehicles.
 13 We are essentially a mobile company. Many of
 14 our employees, such as our line personnel,
 15 technicians, meter readers, are mobile for the
 16 majority of the day and their workplace is on
 17 the road, in their vehicles. We will not be
 18 increasing the size of the fleet. We need to
 19 replace seven heavy-duty vehicles, 46
 20 passenger vehicles and eight small all-terrain
 21 vehicles, such as snowmobiles. For our heavy
 22 fleet vehicles, our replacement guideline is
 23 ten years or 250,000 kilometres. For
 24 passenger vehicles, the replacement guideline
 25 is five years or 150,000 kilometres. And this

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1 MR. DELANEY:
 2 guideline initiates a review of the vehicle
 3 maintenance costs, the operating history and
 4 the overall condition of the vehicle before a
 5 final decision is made to replace the vehicle.
 6 When you compare our 2005 capital budget
 7 for transportation with history, it's about
 8 ten percent higher than the average of the
 9 past five years, and this is driven by two
 10 main factors. First, there's been a
 11 consolidation amongst the heavy-line truck
 12 manufacturers. There are a number of the
 13 lower end competitors have dropped out of the
 14 business and we're seeing a general price
 15 increase from the manufacturers that now
 16 dominate the market. Second, in the early 80s
 17 and--excuse me, in the late 80s, early 90s, we
 18 moved into hot line work. Now that is
 19 working, as I showed in that picture, working
 20 on the lines, on the power lines while the
 21 lines were energized at high voltage. The
 22 picture I showed you was transmission, but we
 23 also did it on distribution. This change in
 24 work required a new type of truck, and so we
 25 saw a large number of trucks come in in the

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1 The unforeseen allowance is \$750,000 and
 2 shown in Schedule B, page nine. This
 3 allowance is used for emergencies, to cover
 4 any unforeseen capital expenditures which have
 5 not been budgeted elsewhere, and the purpose
 6 of the allowance is to permit the company to
 7 act quickly to deal with an unforeseen event
 8 in advance of seeking the specific approval of
 9 the Board.
 10 And that concludes the capital budget for
 11 2005.
 12 MR. ALTEEN:
 13 Q. Okay then, Mr. Delaney, would you now comment
 14 on the variances with respect to the current
 15 2004 Capital Budget for the Board?
 16 A. Mr. Chairman, this big table here is the 2004
 17 Capital Expenditure status report from Volume
 18 1 of the pre-filed application. In column
 19 one, we have the capital expenditure category.
 20 That's the energy supply, substations,
 21 transmission, et cetera. Column two is the
 22 budget, as approved by the Board. The third
 23 column shows the forecast 2004 expenditures as
 24 of June 30th.
 25 Column four shows the forecast deferrals.

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1 early 90s. So these trucks now are ten plus
 2 years old and we're seeing a bubble in
 3 replacement of heavy-duty trucks that we
 4 expect to level off in the next few years.
 5 Least cost transportation management
 6 requires that we consider our fuel and
 7 maintenance costs, those operating costs, in
 8 conjunction with the capital expenditure, and
 9 prudent capital expenditure has been the main
 10 reason why we have been able to control our
 11 transportation operating costs.
 12 The telecommunications category is
 13 \$60,000, as shown in Schedule B, page seven.
 14 We do not have a telecommunications
 15 department. It's not core to our business.
 16 Our VHF radio system is in good working
 17 condition. We expect it to last to at least
 18 2011. There's a relatively small expenditure
 19 required to replace about 20 of the 340 VHF
 20 mobile radios that we have in operation.
 21 General expenses capital is \$2,800,000.
 22 This is the amount of Newfoundland Power's
 23 administrative expenses that are charged to
 24 capital and this is calculated in accordance
 25 with Board orders.

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1 Now these deferrals result from our decision
 2 to manage the overall capital expenditure in
 3 2004 to more closely match the overall budget
 4 as approved by the Board. The main driver of
 5 the increased expenditure was customer growth,
 6 and we've exercised engineering judgment in
 7 selecting these deferrals. However, there are
 8 reliability and costs risks in deferring any
 9 project. The fifth column shows the total
 10 forecasted expenditure, including deferrals,
 11 and column six shows the variance between the
 12 budget, as approved by the Board, and our
 13 forecasted expenditure.
 14 As of June 30th, we were forecasting a
 15 total of 3.2 million or approximately six
 16 percent above budget, which is consistent with
 17 the past five years. Variances from budget
 18 are unavoidable due to many circumstances.
 19 For example, the customer growth may turn out
 20 to be greater or less than forecasted during
 21 the budget process. Second, much of our work
 22 is refurbishment and as we get into the work,
 23 there are discoveries and change conditions
 24 that were not originally anticipated and
 25 included in the original cost estimate. And

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1 MR. DELANEY:
 2 third, there's a time difference between the
 3 preparation of the estimate and the actual
 4 construction, and sometimes more than a year,
 5 and in that interval, market prices change for
 6 equipment, materials and contract labour.
 7 Detailed explanations of the individual
 8 variances are pre-filed in Appendix A of the
 9 2004 Capital Expenditure Status Report, and
 10 I'd like to explain the larger variances.
 11 The energy supply category has a forecast
 12 variance of approximately \$680,000. This is
 13 primarily due to increases in material and
 14 engineering costs associated with the New
 15 Chelsea hydro plant refurbishment project.
 16 For example, the price of steel is up
 17 significantly from when the estimate was
 18 prepared.
 19 The distribution category has a forecast
 20 variance of approximately 2.5 million. This
 21 is primarily because customer growth has
 22 exceeded our expectations, particularly in the
 23 Northeast Avalon.
 24 One other significant variation is the
 25 variation associated with the 2002 project

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1 unusable or needed significant refurbishment.
 2 This resulted in \$580,000 in additional direct
 3 costs, plus the associated engineering.
 4 As I mentioned earlier, the gas turbine
 5 is in service and has already demonstrated its
 6 worth, having kept the lights on for 21 hours
 7 down in Wesleyville during a sleet storm on
 8 April 25th-26th. When we revisit the original
 9 plan where we compared the relocation of the
 10 gas turbine to building a second transmission
 11 line, to installing a new generation in
 12 Wesleyville, when we go back and revisit that
 13 plan and we put in the installed cost of the
 14 gas turbine, the actual costs, we find that
 15 it's still the least cost plan for improving
 16 reliability in Bonavista North, to the tune of
 17 \$1.9 million in net present value. So
 18 relocating the gas turbine, with the actual
 19 costing, is still the least cost thing to do
 20 down in that area to improve the reliability.
 21 Q. Now Mr. Delaney, do you have any concluding
 22 remarks with regard to the 2005 Capital Budget
 23 application?
 24 A. This is a prudent budget that addresses needs
 25 in many areas, including the customer service,

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1 Wesleyville Gas Turbine Relocation. This
 2 project was approved in 2002 to relocate an
 3 under-utilized gas turbine from Burin to
 4 Wesleyville to improve reliability in the
 5 Bonavista North area. This energy supply
 6 project came in significantly over budget, and
 7 the main cause of the variances can be
 8 summarized in two parts. First, the system
 9 problems on the Burin in early 2002, due to
 10 those system problems, we decided to postpone
 11 the project for one year, due to customer
 12 concerns. We subsequently filed a
 13 supplemental budget with the Board for capital
 14 expenditure on the Burin to deal with the
 15 problem there, and when that project was
 16 finished, we moved the gas turbine. This
 17 delay caused approximately \$520,000 in
 18 additional direct costs, plus the associated
 19 engineering, project management and
 20 supervision costs.
 21 Second, this was a very complex and
 22 complicated project. We found during the
 23 course of the work that a number of the
 24 components of the gas turbine, that we had
 25 originally intended to reuse, were found to be

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1 reliability and safety. Many of the projects
 2 in this budget rely on engineering judgment
 3 and I lead an engineering team at Newfoundland
 4 Power and we have fulfilled that professional
 5 obligation. We operate Newfoundland Power as
 6 a business. We manage a large network in a
 7 planned and organized way. We have good
 8 inspection programs, good maintenance
 9 programs, all based on industry best
 10 practices, and we seek to maximize the service
 11 life of our assets. This is a proactive
 12 budget and although failures are inevitable,
 13 we can't be reactive and be least cost at the
 14 same time. This budget meets the goal of
 15 reasonable service at least cost, and the
 16 company seeks the Board's approval for this
 17 \$48,141,000 capital budget for 2005. Thank
 18 you, Mr. Chairman.
 19 Q. We're right about on time, Mr. Chairman.
 20 CHAIRMAN:
 21 Q. Good timing, Mr. Alteen. Thank you.
 22 MR. ALTEEN:
 23 Q. Thank you.
 24 CHAIRMAN:
 25 Q. We'll break for 15 minutes.

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1 (BREAK - 11:15 A.M.)
 2 (11:36 a.m.)
 3 CHAIRMAN:
 4 Q. Mr. Alteen, are you finished with Mr. Delaney
 5 for now?
 6 MR. ALTEEN:
 7 Q. He's available for cross-examination, Mr.
 8 Chairman.
 9 CHAIRMAN:
 10 Q. Thank you. Mr. Kennedy, are you ready to
 11 proceed?
 12 MR. KENNEDY:
 13 Q. I am, Chair, thank you.
 14 CHAIRMAN:
 15 Q. I understand you'll be taking us to lunch? I
 16 mean, up to the time of lunch?
 17 MR. KENNEDY:
 18 Q. Yes.
 19 CHAIRMAN:
 20 Q. There's a difference.
 21 MR. KENNEDY:
 22 Q. Yes, there is. I suspect so. This is one of
 23 those it's only going to take me a few minutes
 24 to ask the questions, so subject to the
 25 witness' responses, but I would suggest that

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1 Q. Thank you.
 2 MR. KENNEDY:
 3 Q. So this document that's before you, Mr.
 4 Delaney, is the PUB-27 point one. And this
 5 question asked Newfoundland Power to, in
 6 relation to the projects that were listed,
 7 provide the aggregate of all costs contained
 8 in the projects that are directly attributable
 9 to the growth in customers experienced by
 10 Newfoundland Power. I note that in reply by
 11 Newfoundland Power you say that the majority
 12 of the growth is attributable in new
 13 customers, however, a component of the total
 14 load growth is also attributable to existing
 15 customers who increase their energy usage.
 16 And is it I understand correctly that
 17 Newfoundland Power doesn't break out projects
 18 related to growth in new customers from
 19 projects related to growth in energy sales per
 20 se, that they're not tracked separately? If
 21 you read the last line in that reply?
 22 A. Yes, that's correct.
 23 Q. Okay. The references in the question to the
 24 project numbers B-31 and the like are as
 25 provided in your table below, extensions,

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1 it will be about an hour in total. Mr.
 2 Delaney, I'd like to start off by dealing with
 3 the growth driven projects in the distribution
 4 section of your capital budget. And a good
 5 place to start, Chair, would be to just do a
 6 review of some of the RFIs that were submitted
 7 in answer by Newfoundland Power and
 8 specifically PUB-27. And PUB-27 is a number
 9 of parts. And I'd just like to bring the
 10 Panel quickly through those parts first with
 11 the witness and then as a follow-up, I've done
 12 a spreadsheet which I plan to hand out and ask
 13 the witness some questions about. And I've
 14 provided that spreadsheet to counsel for
 15 Newfoundland Power but only yesterday which I
 16 note under Rules to Procedure is technically
 17 not 24 hours, it was a 24 hour time frame on
 18 new documentation. But I don't intend to put
 19 it forward as an exhibit, per se, it's just an
 20 illustrative aid for the Panel.
 21 MR. ALTEEN:
 22 Q. We're thankful for the heads up we got, Mr.
 23 Chairman. We're on an abbreviated time
 24 schedule.
 25 CHAIRMAN:

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1 meters, services, street lights, distribution
 2 transformers, reconstruction, rebuild
 3 distribution lines, distribution reliability
 4 initiative and additions to accommodate
 5 growth. And this I think dovetails with a
 6 chart that you had up in your power point
 7 presentation. And could you confirm that,
 8 first of all, that I have, in listing those
 9 projects, managed to capture all the projects
 10 in the distribution section that would have
 11 growth as a component of it?
 12 A. Yes, yes, I think you have, yeah.
 13 Q. Okay. I think that dovetails with what you
 14 indicated when you were going through your
 15 power point presentation. And again, just to
 16 make sure that I've got a firm understanding,
 17 in the case of project, for instance, B 31
 18 extensions where you have a budget of
 19 \$6,374,000 for your 2005 capital plan, you
 20 indicate that 100 percent of that project
 21 category is attributable to growth, so that
 22 would be attributable to growth in customers
 23 and attributable to growth in energy sales,
 24 correct?
 25 A. On the distribution system, yes.

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1 MR. KENNEDY:
 2 Q. Right. Extensions on, these are all
 3 distribution related projects?
 4 A. Yes.
 5 Q. Okay. And so B 31, extension on your
 6 distribution related--distribution related
 7 projects, budgeted for 6 million, 374, 100
 8 percent of that is related to the growth in
 9 new customers or energy sale?
 10 A. Yes, that's correct.
 11 Q. Okay. If we go to B 27.2. And, Mr. Delaney,
 12 this RFI asked the same question in effect, or
 13 at least dealing with the same projects for
 14 distribution, extensions, meters, services and
 15 so on. It asked Newfoundland Power to provide
 16 the unit cost per new customer for each of
 17 those budget categories. And again, this is,
 18 includes the unit cost per new customer for
 19 both growth related to, the number of new
 20 customers in growth related to increased
 21 energy sales, correct?
 22 A. Yeah -
 23 Q. That unit cost per new customer, for instance,
 24 for extensions of \$2,590 per customer would
 25 include the expenditures related to growth in

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1 what I'd like to do, and I believe the witness
 2 already has a copy of this or does he?
 3 CHAIRMAN:
 4 Q. You might give him one just to make sure he's
 5 talking from the same piece of paper you have.
 6 MR. KENNEDY:
 7 Q. Okay. Chair, this is the spreadsheet that I
 8 did up and I'll explain it once it's handed
 9 out. Yeah, we can put it in as Information
 10 No. 1. Now, members to the Panel, by way of
 11 explanation, what I've done is taken the
 12 information that was in the RFIs that we just
 13 went through and just put them down into a
 14 different format and basically included all
 15 the information in one spreadsheet. And so it
 16 should--each piece of information in here
 17 should tie directly to an RFI except for where
 18 you'll see unit costs over budget by, and
 19 actual annual growth and unit costs. They're
 20 my own calculations based on the figures that
 21 Newfoundland Power provided in the responses
 22 to the RFI. And so, just taking the year
 23 2001, because that's the full--first complete
 24 year. You'll see that I have a percent
 25 attributable to growth, that's as per the RFI

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1 extensions that's attributable both to the
 2 increase in customers and an increase in
 3 energy sales?
 4 A. That's correct.
 5 Q. Okay. And so what we have, if I'm reading
 6 this correctly, is that the unit costs per new
 7 customer for 2005 is budgeted at a total of
 8 \$4619 per new customer?
 9 A. Yes, that's correct.
 10 Q. Okay. Now, Panel members, just so you have
 11 the reference, I think it might be handy to
 12 just go to 27.3 at the documents. And 27.3
 13 asks for the same information for those same
 14 budget categories only now for the fiscal
 15 years 2000 through to 2003. And there's
 16 attachments, there's five pages to that RFI,
 17 just so you see where it's from. If we could
 18 go to 27.5 These are the--this question asks
 19 for the growth and net growth in new customers
 20 as well as--or just new customers for each of
 21 those fiscal years, so that you see that
 22 information is there. And then 27.8, please?
 23 27.8 provided the growth in energy sales for
 24 each of those years. And I think that that's
 25 all the RFIs that we need to look at. And now

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1 that Newfoundland Power would have responded
 2 to showing, in the case of extensions, 100
 3 percent of the budget item is attributable to
 4 growth, 20 percent for meters, 70 percent for
 5 services and so forth. They had a budget of
 6 \$4,005,000 in 2001 for extensions. And a
 7 budgeted unit cost in 2001 of \$1693 per
 8 customer. Their actual expenditures under
 9 extensions for 2001 would have been 5,404,000.
 10 Their unit cost actually for extensions was
 11 \$2343. And then I've calculated in the case
 12 of 2001 for unit costs, the unit costs went
 13 over budget in that year by 28 percent for
 14 extensions. And the actual annual growth in
 15 unit costs, that would have been from year
 16 2000 to year 2001, were 38 percent for
 17 extensions. The bold numbers that you see
 18 right next to those two columns, 23 percent
 19 and 27 percent are the total. So in other
 20 words, when taking into account all
 21 categories, extensions, meters, services,
 22 street lights, transformers and additions, the
 23 unit costs went over budget by 23 percent in
 24 the year 2001 and the actual annual growth in
 25 unit sales from 2001 as compared to 2000 would

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1 have been 27 percent.
 2 (11:48 a.m.)
 3 CHAIRMAN:
 4 Q. You mentioned a number of 28 percent, Mr.
 5 Kennedy. Where did you come up with that?
 6 MR. KENNEDY:
 7 Q. Thirty-eight percent I think I -
 8 CHAIRMAN:
 9 Q. Okay.
 10 MR. KENNEDY:
 11 Q. If I said 28, it was an error, Chair. The 38
 12 percent is just I was referring to the unit
 13 costs over budget in extensions in 2001,
 14 you'll see a 38 percent figure there.
 15 CHAIRMAN:
 16 Q. Yes, I do.
 17 MR. KENNEDY:
 18 Q. So, Mr. Delaney, having a fairly brief, I
 19 appreciate, opportunity to look at this
 20 information presented in this format, I wonder
 21 if you can provide the Panel with an
 22 explanation, if you would, for some of the
 23 trends that we see or seem to be apparent in
 24 this document between the budgeting of unit
 25 costs and then the actual annual growth in

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1 up and assume they're correct, but we'll go on
 2 that assumption that -
 3 Q. I'm a lawyer, not an accountant, so I'll
 4 respect your being subject to your own
 5 verification. There may actually be an
 6 anomaly there, so.
 7 A. If we look at the unit growth cost of 39
 8 percent that would compare 2005 to 2000, the
 9 main factor that would drive the growth in
 10 unit cost would have occurred between the year
 11 2000 and 2001. In 2001 we purchased all of
 12 Aliant's poles and from 2001 onward we were
 13 responsible for installing 100 percent of the
 14 poles on the island, and in turn we charged
 15 Aliant the rentals on those poles. In 2000
 16 Aliant were installing, I don't have the exact
 17 numbers, but Aliant were installing the
 18 majority of the poles on the island in the
 19 year 2000. So when you think of the cost of
 20 extensions, a large component of the cost is
 21 the cost of installing the pole. So in 2000
 22 we had a situation where we were installing
 23 far fewer poles than we were in subsequent
 24 years. Now, that's been balanced off with the
 25 rentals that we get from now installing posts,

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1 unit costs year over year for the period 2000
 2 to 2005? So, for instance, in 2000 your unit
 3 costs were over budget, came in over budget by
 4 45 percent. The amount that it cost you to
 5 hook up a new customer was 45 percent greater
 6 than you budgeted in 2000. That's repeated
 7 again in 2001 by 23 percent, your unit costs
 8 went over budget by 23 percent. 2000 your
 9 unit costs went over budget by 16 percent.
 10 And then your unit costs went over budget by 2
 11 percent in 2003. Your budgeting growth in the
 12 unit costs in 2004 as compared to 2003 of an
 13 extra 19 percent, and your budget to budget
 14 growth form 2005 compared to 2004 is two
 15 percent as an overall. Could you explain
 16 what's taking place here, why the unit costs
 17 to hook up a new customer would increase a
 18 total of 52 percent in that five year--sorry,
 19 39 percent in that five year period as is
 20 reflected by that last number down in the
 21 column?
 22 A. Yes. There are a number of factors involved
 23 in this explanation. First of all we look at
 24 the--and I'll caution that I haven't had a
 25 chance to vet all these numbers and add them

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1 but in the year 2000 we were actually paying
 2 some rent. There was an agreement going back
 3 and forth between us and Aliant. We were
 4 paying rentals on their poles, they were
 5 paying rentals on ours. So if you look at the
 6 overall per unit cost, let's use 2001 to get
 7 Aliant out of the picture, because pole
 8 installations is a significant part of the
 9 cost of serving new customers, we'll have the
 10 actual per unit cost in 2001 at \$4226, if I'm
 11 reading this correctly, as compared to 4619 in
 12 2005, which is a change somewhere in the
 13 neighbourhood of 9 or 10 percent increase as
 14 opposed to 39. So there has been an increase
 15 in the per unit cost from 2001 to 2205 of
 16 approximately 9, 10 percent, in that order of
 17 magnitude. Now, per unit cost, when you're
 18 trying to develop a budget for how much do you
 19 have to spend to connect customers to the grid
 20 in the coming year, it's not an exact science.
 21 The best information we have is to develop a
 22 forecast of the number of new customers we
 23 expect and look at our history, look at our
 24 system and derive a per unit cost. But when
 25 you think of how the distribution's

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1 MR. DELANEY:
 2 infrastructure is built out, there's this
 3 timing lag between when we build and when the
 4 customer connects. When you get into a period
 5 of high growth, what happens is we're building
 6 our infrastructure and building our
 7 infrastructure and building a lot of
 8 infrastructure quick and customers are hooking
 9 up. When the growth tapers off, the customers
 10 come in and fill in the infrastructure. So in
 11 periods of high growth our per unit cost per
 12 customer will tend to be greater than in
 13 periods of low growth when the per unit cost
 14 per customer will be less. I'll give you a
 15 good example. I was directly involved in
 16 Southlands back when we developed this
 17 methodology in the early '90s, we developed
 18 this concept, this way of trying to anticipate
 19 what the customer growth would be in the next
 20 year. We built the entire infrastructure for
 21 Southlands in one year and that just so
 22 happened in the early '90s turn down in the
 23 economy. So we put all this extension work
 24 in, put all these transformers in, the
 25 customers never showed up. But as the

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1 cost, extra material cost, but there is a
 2 component in there that's related to timing
 3 differences with respect to when we build the
 4 infrastructure and with respect to when the
 5 customer attaches.
 6 Q. Okay. A couple of follow-up questions to
 7 that, Mr. Delaney. There's a column there
 8 about customer growth and I took them, that's
 9 the gross customer growth figures that were
 10 provided in--just so we have the specific
 11 reference. That's in 27.5, that RFI, and it
 12 was both the net domestic growth and the gross
 13 domestic growth figures provided. And I took
 14 the percent change, I guess, year over year
 15 that showed up in that table for gross
 16 domestic growth. And in turn I took the
 17 energy growth from 27.8. You wouldn't really
 18 classify the growth year over year from that
 19 period, 2000 to 2005 as the high growth era,
 20 would you? Like, would growth of 1.3 percent
 21 up to a maximum of 1.6 percent year over year
 22 be considered by Newfoundland Power to be high
 23 growth?
 24 A. I think overall in the province, that's
 25 correct, but for the northeast Avalon we have

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1 customers showed up in Southlands over the
 2 '90s and in recent years the per unit cost in
 3 that particular subdivision was very low. So,
 4 it's a good way, it's a good way of--it's the
 5 best way we've got to predict what our future
 6 expenditures will be to connect customer
 7 growth, but it's not perfect. We've attempted
 8 even to try to track subdivision lot growth
 9 and try to make the formula based on
 10 subdivision lot rather than customer, because
 11 we're building the infrastructure to the lot,
 12 not so much the customer, because of this
 13 timing difference and that never really worked
 14 because it's when you go out and talk to
 15 developers, etcetera, you'll get very
 16 optimistic estimates as to how much is going
 17 to be done next year. That being said, that's
 18 the main mover behind the extensions account
 19 is a little bit of out of sync with customer
 20 growth. But if we compare it, 2005, the per
 21 unit cost to 2001, we have a difference of
 22 somewhere around 9 or 10 percent in per unit
 23 growth, which, you know, it's about 10
 24 percent, there's a certain element of that
 25 related to inflation, extra, you know, labour

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1 seen growth in the last few years that is very
 2 high in comparison to history. The
 3 developments in the St. John's area in
 4 particular and some in the Corner Brook area
 5 with respect to Humber Valley Resort are
 6 growth rates that I would characterize as very
 7 high relative to what I've seen in my career.
 8 Q. I'll assist you there, Mr. Delaney. There's
 9 PUB-10.2. If you could just scroll down to
 10 the chart there? The question asked for each
 11 of the years from 2000 to 2004 showing a
 12 breakdown--show a breakdown by rural and urban
 13 growth, sorry, of the number of customers
 14 added to the system. So, for instance, in
 15 2004 forecast the eastern region you're
 16 forecasting 2265 new customers, 1643 of which
 17 come from St. John's, but in the western
 18 region you're only seeing 567 new customers.
 19 So that's what you're indicating that the
 20 growth is in pockets there, I take it, that
 21 there's high growth in some--higher growth in
 22 some regions of Newfoundland Power's
 23 distribution territory as opposed to other
 24 areas, that's what you're suggesting?
 25 A. Yes, that's correct.

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1 MR. KENNEDY:
 2 (12:00 p.m.)
 3 Q. And that that would--and so if we go back to
 4 Information No. 1, the customer growth column,
 5 although the numbers are not high in the sense
 6 of growth year over year of 1.3 percent, 1.2
 7 percent, you're suggesting that they may mask
 8 some more volatile growth that's occurring in
 9 specific regions in the province and that goes
 10 to explain some of the reasons why your unit
 11 costs have increased as much as they have in
 12 the same period? Is that the tick tack toe,
 13 if you will, that you're -
 14 A. I'm not really sure that because the growth is
 15 more concentrated in one area than another
 16 area that that would lead to a change in the
 17 per unit cost. I don't think that's correct.
 18 Q. Okay. See, because, like, there's some
 19 anomalies that just sort of pop out at you.
 20 If you look at 2004, for instance, and you
 21 look at meters, you have budgeted \$235,000 for
 22 the current capital budget year and the unit
 23 cost is \$102 per meter, but the preceding year
 24 your actual unit cost for a meter was \$39 for
 25 162 percent growth in the cost of new meters

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1 unit costs have been increasing during that
 2 period, correct?
 3 A. Yeah, just looking at it, see, the meters
 4 represent about somewhere between one and two
 5 percent of the cost of hooking up a new
 6 customer. So they're not a main driver in the
 7 overall per unit cost. The main drivers would
 8 be in the bigger items which would include
 9 extensions, services and transformers.
 10 Q. Right.
 11 A. And if I may, I'll just go into a little bit
 12 into the services--to the other items to give
 13 the Board a flavour of what are some of the
 14 components behind this per unit cost. I
 15 described extensions, how there are timing
 16 difference between the installation of a plant
 17 and the customers actually showing up, which
 18 is one of the factors behind extensions. If
 19 we look at services, there has been some
 20 increase in the per unit cost of services over
 21 the years. One of the factors behind that was
 22 we, in early--around 2002, 2001 we brought a
 23 program out in the Company mainly targeted at
 24 our line staff to do it right the first time.
 25 And you know, it was all about getting quality

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1 per customer. Now, I'll try to assist you
 2 here. Is that related to those new automatic
 3 reader meters, the ADR, I think it was called,
 4 meter?
 5 A. Yes, the change in unit cost, actual unit cost
 6 between 2004 and 2003 is due to the
 7 installation of AMR meters in 2004 that was
 8 not there in 2003, that's the automatic meter
 9 reading, that's correct.
 10 Q. Okay. Because otherwise your unit cost for
 11 you meters were actually always well below
 12 budget. In 2000 you came in 26 percent below
 13 budget, in 2001 you came in 29 percent below
 14 budget, 2002, 23 percent below budget, and
 15 2003, 33 percent below budget, and 2005 you
 16 were 23 percent below budget. So the meters
 17 have generally come in lower than budgeted,
 18 correct?
 19 A. Yes, they have.
 20 Q. So -
 21 A. According to this spreadsheet, yes.
 22 Q. Right. So the meters, at least according to
 23 the spreadsheet, and again, they're just the
 24 numbers that were provided in the RFIs, the
 25 meters really aren't the driver of why your

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1 control into the system to prevent future
 2 problems. So with respect to services, it's
 3 actually one area that we focused on a lot,
 4 that linemen when they went out and did a
 5 service, to do it right the first time. And
 6 that added a little bit of labour to our
 7 services account, but we expect to get the
 8 dividends down the road. Some of the things
 9 we did, we came up with a different type of
 10 air seal with the connections on the services
 11 that required longer to tape it up and stuff.
 12 So we made a deliberate effort to improve the
 13 quality of work with respect to services.
 14 Transformers, there is some per unit change in
 15 the cost of transformers. And if you remember
 16 my slide, I showed an old transformer and a
 17 new transformer. We moved to stainless steel
 18 transformers in the early, around 2000, 2001.
 19 And that increase the per unit cost of
 20 transformers from a capital sense but it will
 21 decrease our operating costs down the road.
 22 So there are some drivers there. So when I
 23 look at this whole \$11,000,000, \$11,368,000
 24 that it's costing us to hook up new customers
 25 and I see a growth in that per unit cost from

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1 MR. DELANEY:
 2 2001 to 2005 of somewhere around 9, 10
 3 percent. That would be what we're dealing
 4 with in terms of, you know, the new things
 5 we've done in capital in terms of improving
 6 our services, improving our transformers with
 7 the thinking being that we'll get operating
 8 cost dividends down the road.
 9 Q. Just so we have again a reference
 10 specifically, 27.11, 27.11. For the benefit
 11 of the Panel members. Panel members, this is
 12 an RFI that asked for a reconciliation of the
 13 costs in the capital budget as per the earlier
 14 questions in the RFI 27, one, six, nine and
 15 ten. And this is what you were referring to a
 16 moment ago, Mr. Delaney, if I'm correct, the
 17 11,368,000. So that's the portion of the
 18 distribution budget that's related
 19 specifically to growth?
 20 A. That's related to growth, yes.
 21 Q. And within that number the unit cost per new
 22 customer that account for that 11 million 368,
 23 according to Info No. 1, have increased by
 24 overall 39 percent since the year 2000 to the
 25 year 2005? And again, I'll respect you to

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1 our distribution feeders and determine whether
 2 any are overloaded. Now, that's not because
 3 of customer growth in the given years, it's
 4 because of the accumulation of customer growth
 5 up to that point. So the feeder additions for
 6 load growth is not something that we equate to
 7 that number of customers in that year, it's
 8 equated to looking at the power system, is
 9 this feeder overloaded, do the engineering
 10 analysis, do a study of alternative of what's
 11 the least cost way and determine what way to
 12 address the system overload. So it's a little
 13 different than the other projects in that
 14 regard.
 15 Q. Okay. I just want to complete the record on
 16 this, Chair. And Mr. Delaney, I just wanted
 17 to point out to the Board the actual formula
 18 that's used by Newfoundland Power to arrive at
 19 its budgeted figure for expenditures per new
 20 customer. And this is provided in PUB-28.1.
 21 And that's the second page of 28.1, or
 22 Attachment A, sorry, that is, yeah. We'll
 23 need that as well, but the actual 28.1 should
 24 be there as well. Yeah, here we go. So, Mr.
 25 Delaney, this asks for the working

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1 suggest that it's subject to your own checking
 2 of those numbers because that's my figure,
 3 but.
 4 A. From 2000 to 2005 it's increased 39 percent.
 5 However, in 2000 we were in the situation
 6 where Aliant were installing a large portion
 7 of the poles in the Province of Newfoundland,
 8 so the equation changed quite a bit between
 9 2000 and 2001. And I don't think a comparison
 10 between 2005 and 2000 is meaningful, but a
 11 comparison between 2005 and 2001 would be a
 12 more meaningful comparison to take into the
 13 account that Aliant are not--Aliant stopped
 14 installing poles in 2001, but in 2000 a large
 15 portion of the cost associated with connecting
 16 new customers was borne by Aliant. As well,
 17 there's another thing I might add. The
 18 project additions, feeder additions for load
 19 growth and reliability is included here. We
 20 approach the justification of that project
 21 totally differently. We don't estimate the
 22 cost of that project based on pre unit cost or
 23 customer growth. What that project is based
 24 on is justified on the basis of engineering
 25 analysis of the system. We'll look at all of

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1 calculations to show the historical based
 2 costs in each of the above projects. And the
 3 first one was B 31, which is the extensions
 4 project which we were just looking at. And do
 5 I gather correctly that Newfoundland Power, in
 6 putting together its budget, say, for this
 7 capital year, 2005, uses a calculation which
 8 involves an analysis of the historical
 9 expenditures that's then adjusted for
 10 inflation and then it uses that to figure out
 11 what its budget will be for 2005 for
 12 extensions attributable to new growth in
 13 customers and energy sales?
 14 A. Could you repeat that?
 15 Q. Sure. I guess it is, that's a mouthful.
 16 Let's put it this way. In doing your budget
 17 for 2005 do you look--and trying to figure out
 18 how much your extension budget should be based
 19 on your expected growth in new customers, you
 20 look to your experience in the preceding year
 21 as to how much it costs to hook up new
 22 customers?
 23 A. That's correct.
 24 Q. Okay. And that there's a specific formula you
 25 use and that's in the Attachment A?

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1 MR. KENNEDY:
 2 A. Yes, that's correct.
 3 Q. And as indicated in Attachment A, you take the
 4 historical labour cost per customer, which is
 5 the historic actual labour cost, minus any
 6 special projects labour costs and then you
 7 divide it by the number of customers, new
 8 customers that have come on the system,
 9 correct?
 10 A. That's correct.
 11 Q. And then you'd do the same calculation for
 12 your non-labour costs, so presumably that's
 13 materials mostly?
 14 A. Yes, that's correct. Some material and--yes,
 15 that's correct, yes.
 16 Q. Okay, and again you except out any special
 17 projects that are special?
 18 A. That's correct.
 19 Q. And then you take a total of those, so you
 20 just add those together, and then you take
 21 that total and you divide it by--you do it for
 22 five years and you divide that by five years
 23 in order to get an average of what that
 24 historical costs, including both labour and
 25 non-labour has been for the cost per total new

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1 it's formula based to an extent, but if there
 2 are special projects or if there are special
 3 things we know about that could happen, we
 4 will put those factors into the delegation of
 5 this budget as well. So it's formula driven,
 6 but there is some--there's some judgment got
 7 to be exercised.
 8 (12:15 p.m.)
 9 Q. So Mr. Delaney, accepting your explanation
 10 that some of the reason why the unit costs
 11 have increased is attributable to the fact
 12 that your doing early bills in some areas
 13 where the number of new customers is low and
 14 so the unit cost ends up being high. In
 15 effect you're almost sort of over building an
 16 area in anticipation of further growth in the
 17 future occurring, correct? In other words, if
 18 you have a hundred new customers move into a
 19 subdivision, you build your substation on the
 20 basis that the subdivision plans to have a
 21 thousand new homes?
 22 A. Most subdivisions now are built in phases and
 23 we use our judgment in terms of how much of
 24 the subdivision you will build at any one
 25 time. We also got to be very cognizant that

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1 customer?
 2 A. Yes, that's correct.
 3 Q. Okay. So if your actuals are increasing, your
 4 average historical expenditure per customer is
 5 increasing, correct? If the actual cost of
 6 labour and non-labour and the combination of
 7 the two, year over year, is increasing, your
 8 average is going to increase; one follows the
 9 other?
 10 A. Yes, you would think, yes.
 11 Q. So if your actual costs are increasing, it
 12 places a, if I may, an upper bias on your
 13 calculation of what your budget should be for
 14 a given budget year. So for instance, 2005
 15 being based on a record of increasing
 16 historical expenditures to hook up new
 17 customers, that trend would be reflected in
 18 your budget in 2005 by a corresponding
 19 increase?
 20 A. The budget is formula driven to a certain
 21 extent, based on history, based on our per
 22 unit costs and we will look at the budget and
 23 see how it compares to previous years and see
 24 if it makes sense too. There's a certain
 25 override that we will look at the budget and

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1 after the houses get built, it will get more
 2 expensive for us to get in there and get our
 3 stuff--like, get our work done after the
 4 houses are built, so we tend to try to get
 5 ahead of the housing.
 6 Q. And so is it safe to assume that that unit
 7 cost per new customer should start to decrease
 8 as we move forward and these areas where
 9 you've experienced a necessity to build plant
 10 in excess of what was needed and drive up your
 11 unit cost will begin to reverse as new
 12 customers come into those same areas?
 13 A. I think that's true. If we see a downturn in
 14 economic growth, in terms of residential
 15 subdivision construction and commercial
 16 subdivision construction in the Northeast
 17 Avalon, where we've seen most of the growth,
 18 if we see that turn down, I would expect our
 19 per unit cost to hook up a new customer would
 20 decrease.
 21 Q. So can you give the panel any indication of
 22 when you would expect for us to hit that
 23 tipping point? Is that something that you can
 24 foresee?
 25 A. We use the forecast of the Conference Board of

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1 MR. DELANEY:
 2 Canada and we look at other forecasters in
 3 terms of, you know, our director of forecast
 4 produces for us the forecast based on the
 5 economic information he has in front of him as
 6 to where he sees growth going in the next
 7 year. And like all forecasts, it holds an
 8 element of uncertainty.
 9 Q. In a case of the extension's budget for the
 10 unit cost, would there be a labour component
 11 in that extension's budget?
 12 A. Yes, absolutely.
 13 Q. And in accordance with the way this works now,
 14 all the labour associated with that extension
 15 gets booked as capital, correct? It's treated
 16 as a capital expenditure?
 17 A. Yes, all the labour associated with an
 18 extension would be charged to the capital
 19 expenditure, yes.
 20 Q. None of the labour associated with the new
 21 customer would be clerical in nature, would
 22 it, that would involve just signing up a new
 23 customer? Like none of the labour I see here,
 24 for instance, in your expenditures related to
 25 growth would be clerical, the signing on of a

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1 hundred and thirty-three thousand for a
 2 variance of one million five hundred and
 3 fifty-nine thousand or 93 percent over budget,
 4 correct?
 5 A. Yes, that's correct.
 6 Q. And that number, one million six seventy-four,
 7 that was the original budget put forward by
 8 Newfoundland Power as part of its 2002 Capital
 9 Budget Application? Am I gathering that
 10 correct because it says 2002 project?
 11 A. Yes, that was put forward in 2002.
 12 Q. Okay, so it was work that was going to be
 13 carried out in 2002?
 14 A. Exactly, correct.
 15 Q. And then just before you went to actually
 16 relocate the gas turbine in accordance with
 17 that proposal that was approved by the Board,
 18 there was a major system failure in the Burin
 19 Peninsula?
 20 A. Yes, that's correct.
 21 Q. And the gas turbine, I take it, played a role
 22 then in addressing that system failure. It
 23 provided energy to the system during the
 24 failure?
 25 A. Yes, it did, yes.

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1 new customer in your customer service
 2 department, the more operational related -
 3 A. Subject to check, I don't think that that's
 4 the case that our costs and our
 5 representatives would charge any portion of
 6 their time to capital.
 7 Q. Okay. Just in the ten minutes we have before
 8 lunch, Mr. Delaney, I wonder if we could have
 9 a chat about the Wesleyville Gas Turbine
 10 overhaul. And I think the first place to
 11 start would be in the variance report, which
 12 is volume one--it's not actually called
 13 variance report, it's called the 2004 Capital
 14 Expenditure Status Report, and it's the
 15 attachment A. There you go, and it's item 6,
 16 Chris. Here we go. Do you have that in front
 17 of you now, Mr. Delaney?
 18 A. Yes.
 19 Q. Okay. And you've already spoken about this in
 20 your direct presentation. I just have a
 21 couple of questions first relating to your
 22 variance report here. It is indicated that
 23 the budget originally for this project was one
 24 million six hundred and seventy-four thousand
 25 and it ended up coming in at three million two

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1 Q. And so until you felt--until Newfoundland
 2 Power felt confident about what it was doing
 3 down in the Burin area to address this system
 4 issue, it kept the gas turbine down there? It
 5 decided to postpone and delay the move?
 6 A. Because of the system problem, yes, we decided
 7 due to the customer concerns that arose as a
 8 result of that long outage, we decided to
 9 defer the relocation into the subsequent year.
 10 Q. And so was the work on this commenced in 2003
 11 then? Once that Burin issue got resolved, did
 12 the project actually start in 2003?
 13 A. Now there may have been some work in 2002, but
 14 the project began in earnest in 2003, yes.
 15 Q. And I understand it was completed in the
 16 second quarter of 2004? That last paragraph
 17 there actually if you scroll down please,
 18 there's another paragraph underneath that
 19 relating to this. You'll see it says the gas
 20 turbine was relocated and commissioned for
 21 operation at the end of the fourth quarter
 22 2003. And then the work associated with
 23 upgrading the lube oil cooling system, fuel
 24 system and providing remote control was
 25 completed in the second quarter of 2004?

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1 MR. DELANEY:
 2 A. Yes, that's correct.
 3 Q. Okay. Earlier in that paragraph or the
 4 paragraph just above that one, it indicates
 5 that following the decision to postpone
 6 relocation and retendering in 2003, the
 7 contract costs to relocate the gas turbine
 8 increased by four hundred and twenty thousand
 9 to seven hundred and seventy thousand. So do
 10 I gather correctly then that Newfoundland
 11 Power went back out to tender in 2003 to seek
 12 new bids for the relocation of this gas
 13 turbine?
 14 A. Yes. we did, we went--after our decision to
 15 defer the relocation, the contract we had in
 16 place on which we built the estimate was no
 17 more, and so we went back to tender to get
 18 revised estimates for relocating the gas
 19 turbine.
 20 Q. Right, and it says, as a result of that, the
 21 contract costs to relocate went up by three
 22 hundred and fifty thousand and that ended up
 23 increasing your interest during construction
 24 charge by ninety-six thousand?
 25 A. I think the contract to--okay, the original

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1 Q. Want me to say that again? Okay, I just want
 2 to make sure that we're clear on the record,
 3 any increase in the interest during
 4 construction charge would be attributable to
 5 the increased cost in the project attributable
 6 to the postponement, not directly related to
 7 the postponement; in other words, just because
 8 you postpone a project doesn't mean your
 9 interest during construction increases. It's
 10 only if your cost increases as a result of
 11 your postponement that your interest during
 12 construction will increase?
 13 A. No, I think the fact that the project took
 14 longer to do and spread it over a longer time
 15 period would increase the interest during
 16 construction.
 17 Q. Okay.
 18 A. If given two projects that were of the same
 19 value, if one were done in a longer period of
 20 time, relative to the other one, that would
 21 have a larger component of interest during
 22 construction.
 23 Q. Okay, and then we had--and I think you
 24 referenced this that there was assessment of
 25 equipment during the dismantling of this

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1 contract labour cost was three fifty and it
 2 went up to seven seventy for a different of
 3 four hundred and twenty thousand.
 4 Q. Oh, I'm sorry, increased by four twenty?
 5 A. Yes.
 6 Q. Right, okay, so the labour increased by four
 7 twenty per the replies you got back on your
 8 tender, and that increased your interest
 9 during construction--well, just as we said the
 10 postponement of the project, so it may not be
 11 particularly related specifically to that
 12 increase in contract costs, it just overall,
 13 the delay -
 14 A. The delay is responsible, as we put in here,
 15 for five hundred--well, it's four hundred and
 16 twenty plus ninety-six thousand in direct
 17 increase in costs, yes.
 18 Q. Right. Now, the postponement itself of the
 19 project wouldn't necessarily increase your
 20 interest during construction, it's the actual
 21 increase in the project costs caused by the
 22 postponement that increased your interest
 23 during construction?
 24 A. Ah, I think you're going to have to repeat
 25 that.

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1 project which indicated that you needed to
 2 refurbish some equipment you hadn't expected
 3 to refurbish and that costs an extra five
 4 hundred and eighty thousand dollars?
 5 A. That's correct.
 6 Q. Okay. And then you've got, the last sentence,
 7 additional scope of work, along with delays in
 8 completing that project resulted in additional
 9 engineering and project management and
 10 supervision costs totalling 460,000?
 11 A. Yes, that's correct.
 12 Q. Would that be mostly internal labour?
 13 A. That's mostly internal, yes.
 14 Q. Okay. So Mr. Delaney, there must have been
 15 some point in time, in 2003, before you
 16 actually started this work, where you realized
 17 that the project budget had increased fairly
 18 dramatically. Before you started the work,
 19 you must have known that, for instance, as is
 20 indicated here when you re-tendered, that your
 21 contract costs had gone up by \$420,000 alone,
 22 and the nature of the project seemed to change
 23 the minute you got into it. I'm just
 24 wondering why Newfoundland Power wouldn't have
 25 sought approval of the Board for this project,

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1 MR. KENNEDY:
 2 on the basis of these new figures that
 3 Newfoundland Power was aware of?
 4 A. As we became aware of the variance in the
 5 project, it was reported to the Board in our
 6 quarterly reports of variance to the Board.
 7 The scope--it's my understanding that should
 8 the scope of the project change, then we would
 9 come back to the Board for approval. Through
 10 the course of this, the scope of this project
 11 didn't change. It was taking a gas turbine
 12 from Salt Pond and moving it to Wesleyville.
 13 The project remained the project. There were
 14 significant variances and those were reported
 15 to the Board through our reporting of
 16 quarterly variances to the Board. So because
 17 the scope did not change or the nature, the
 18 entire nature of the project did not change,
 19 we did not come back to the Board for specific
 20 approval.
 21 Q. Okay, Mr. Delaney, I just got one more sort of
 22 area I wanted to cover with this and it's
 23 something sort of, I think, could do with a
 24 little bit of an explanation. And this refers
 25 to a report by Rolls-Royce and we'll find that

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1 2 of the Rolls-Royce report under
 2 "Conclusions". And if we could just keep that
 3 then, please, and then just toggle back to the
 4 Rolls-Royce report and go to page 2. So
 5 that's that--that's the energy supply appendix
 6 2, Attachment A. Yes, there we go, and if we
 7 could just go to page 2 of that. And right
 8 there, 2.1, paragraph 2.1 and the conclusion
 9 was, "The gas generator was suspected prior to
 10 the move and the recommendation at that time
 11 was to have the unit sent to an approved
 12 overhaul facility for repair prior to running
 13 the unit. This visit was not different in
 14 that the customer was informed that the gas
 15 generator is in poor condition and should be
 16 overhauled as soon as possible to prevent the
 17 possibility of a catastrophic failure." Now,
 18 I think you just confirmed there that the unit
 19 was actually run in April of this year in
 20 order to address a system outage up in the
 21 Bonavista Peninsula, is that correct?
 22 A. Yes, it was, on the Bonavista North.
 23 Q. Bonavista North, is it? So that would sort of
 24 run somewhat counter, I'd suggest to the
 25 conclusion that Rolls-Royce representative

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1 in--this is in volume 2 of the Application
 2 under Energy Supply and then there's an
 3 appendix 2, No. 2. And then there's an
 4 Attachment A, and could you just describe, Mr.
 5 Delaney, what it is that we're looking at
 6 there on the screen?
 7 A. This is a report compiled by Rolls-Royce who
 8 are the original equipment manufacturers of
 9 the Avon gas turbine, so they are the
 10 specialists in this particular type of gas
 11 turbine. This is a report that they filed on
 12 December 7th of 2003. Where is this to?
 13 Appendix 2? Okay, this is a -
 14 Q. Yes, this is under volume 2, "Energy Supply",
 15 Appendix 2, and then there's an Attachment A.
 16 A. So this is the Rolls-Royce recommendations for
 17 the work required on the gas generator unit.
 18 This is a report that Rolls-Royce provided to
 19 us after we had installed the unit in
 20 Wesleyville.
 21 Q. Okay. Can we just keep that handy please and
 22 then can we just go to PUB-31.1. There we go,
 23 thank you. And this asked a question
 24 specifically about a passage that's in the
 25 Rolls-Royce report and that passage is at page

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1 gave that it should be overhauled prior to
 2 running the unit?
 3 A. I'll give some history on this to answer the
 4 question and to put it in perspective. In
 5 2000, we had Trans Canada Turbines come down
 6 and did a detailed analysis of the Wesleyville
 7 gas turbine involving internal inspection
 8 using boroscope and evaluation of the unit,
 9 and it was given a clean bill of health. In
 10 2003, when we started the move of the gas
 11 turbine from Salt Pond to Wesleyville, around
 12 March, we had Rolls-Royce come in and do
 13 another boroscope analysis inside the machine.
 14 The purpose we did that, was let's see what
 15 this thing looks like inside now, so after
 16 it's done, to make sure everything worked
 17 right from before the move, after the move and
 18 if something should happen in the interim,
 19 then our contractor, who was in charge of the
 20 relocating, would have been responsible. When
 21 in March, when Rolls-Royce did this analysis,
 22 this is the one that they refer to, the prior
 23 analysis, they recommended that we overhaul
 24 the machine. So at that time we were faced
 25 with a decision. We had delayed this project

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1 MR. DELANEY:
 2 one year already. We had reliability problems
 3 in Bonavista North that had to be addressed,
 4 so we made the decision to move the gas
 5 turbine. I personally met with the
 6 representatives from Rolls-Royce to field out
 7 their judgment with respect to this move, and
 8 based on my meetings with them in March and
 9 again later on after the December inspection,
 10 I decided based on our use of the gas turbine
 11 that we could move this project into 2005.
 12 Now by that, what I mean is when Rolls-Royce
 13 were looking at gas turbines and their
 14 judgment is, you know, is very good, they're
 15 the specialists, they are the experts in this
 16 field, but we run our gas turbine for short
 17 durations, very small short durations, time at
 18 a time. This gas turbine is not on, staying
 19 on. So my discussions and looking at the
 20 report with the situation we were in, we used
 21 our best engineering judgment that we would
 22 continue on with the unit, continue on with
 23 the project, get it in place, test it, run it
 24 up, it's been successful so far and we bought
 25 a project before the Board now to get this

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1 that you will look at, at the time?
 2 A. That's correct.
 3 Q. Okay, so is it you're seeking approval from
 4 the Board then under this project to do either
 5 one of those? Because the way the project is
 6 presented, it's an actual approval for the
 7 turbine overhaul, but you could determine in
 8 2005 that you may actually, in fact, purchase
 9 a used gas turbine?
 10 A. Yes, we'll solve the problem for whatever is
 11 least cost. We have there the estimate to
 12 overhaul the unit that we've gotten from
 13 Rolls-Royce and their facility that overhauls
 14 these types of engines, but at the same time,
 15 you know, we know there is a market out there,
 16 so if in fact we find that replacing the unit
 17 is a more cost effective solution, then, of
 18 course, we would look at that.
 19 Q. Chair, that's probably a good place to break
 20 for lunch.
 21 CHAIRMAN:
 22 Q. Fine, we'll come back at 2:00. Everyone okay
 23 with that? Thank you.
 24 (12:37 p.m.) (ADJOURNED FOR LUNCH)
 25 (2:00 p.m.)

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1 overhaul done next year. So that's the
 2 background on the decisions made with respect
 3 to the overhaul of this gas turbine.
 4 Q. And, Mr. Delaney, you indicate in response to
 5 PUB-31.2 that the cost that could be
 6 considered to be now need to be duplicated in
 7 removing this gas turbine unit to get an
 8 overhaul and then reinstalling it, for what
 9 would amount to a second time in its present
 10 location in Wesleyville, are, you quote--and
 11 that's the bottom paragraph at line 24, "a
 12 relatively small part of the overall project."
 13 Could you let me know what is considered to be
 14 a relatively small part of the overall project
 15 in a dollar figure?
 16 A. We--that would be less than five thousand
 17 dollars.
 18 Q. So two to four days?
 19 A. It would be less than five thousand dollars.
 20 Q. You indicated, I think under your direct
 21 presentation that--and also in reply to PUB
 22 2.1 and 2.2, that the decision about whether
 23 to actually purchase a used gas turbine, I
 24 guess, versus overhauling your existing unit,
 25 is one that you haven't decided yet. It's one

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1 CHAIRMAN:
 2 Q. So, if Mr. Delaney is ready, Mr. Kennedy, I
 3 guess you want to resume?
 4 MR. KENNEDY:
 5 Q. Yes, Chair, I have a few more questions for
 6 Mr. Delaney, but I think this will hopefully
 7 might finish today, so. Mr. Delaney, the
 8 first thing I wanted to ask you a question
 9 about was just an issue concerning the
 10 contributions in aid of construction and how
 11 that works just so we can get it on the
 12 record. I think the first place to start
 13 would be the variance report again. And
 14 that's Volume 1, yeah. And the status
 15 reports, yeah. And we're dealing with the
 16 attachments, A, and we're dealing with items
 17 13, 14 and 18, so 13 first. I just wanted to
 18 first to set the groundwork, Mr. Delaney. And
 19 these are the ones that I've picked out of the
 20 variance report that in explaining a variance
 21 provide a commentary that had to do with the
 22 over costs or overrun, if you will, was
 23 attributable, at least in part, to requests by
 24 third parties. One was relating to the
 25 rebuilding of transmission lines for 188,000.

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1 MR. KENNEDY:
 2 And then item No. 14, and these were an
 3 increase in your extensions budget related to
 4 customer driven projects. Examples of
 5 significant projects include Humber Valley
 6 Resort development in the Corner Brook area,
 7 the INCO, Voisey's Bay demonstration plant in
 8 Argentia and a line extension for various
 9 services previously served by the distribution
 10 system operated by the Argentia management
 11 authority. And then if we could just go over
 12 to 18? This is to explain the variance of
 13 \$385,000, which is actually I've worked out
 14 164 percent over budget on that item. The
 15 variance is a result of higher than expected
 16 number of third party requests to relocate
 17 distribution lines. And they were completed
 18 by Department of--for Department of
 19 Transportation work as well as replacements
 20 required by the cable television company.
 21 Now, just setting that as the groundwork, I
 22 wonder if we could go to PUB-59? And this is
 23 relating to that note 14 on the extensions and
 24 explaining the variance of the million 898.
 25 And then there's a list there of the location

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1 instance, another project like St. Fintan's
 2 Cell, the contribution in aid of construction
 3 was actually in excess of the project cost?
 4 A. When we determine the CIAC that's required for
 5 any particular extension, we're governed by
 6 the CIAC policy as approved by the Public
 7 Utilities Board. The concept behind that
 8 policy or the underlining the rules of the
 9 policy is that you look at your customer and
 10 try to--and you estimate the future revenue
 11 stream from that customer. And for each
 12 customer we will provide a minimum, an
 13 investment in terms of hooking that customer
 14 up to the system. So where the customer's
 15 future revenues are not compensatory or
 16 greater than that investment that we'll lay
 17 out first, then that customer would be
 18 required to pay a CIAC and this is governed
 19 under the CIAC policy. So in the case of the
 20 Humber Valley Resort we'd estimate our cost,
 21 estimated the future revenue stream from
 22 Humber Valley Resort, CIAC policy tells us
 23 what our investment should be, so the
 24 difference between what was needed to, you
 25 know, finance this thing, between what we

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1 of the project and the number of customers
 2 impacted and the total cost and the
 3 contribution in aid of construction to recover
 4 or recovered and any other details. And
 5 flipping over to the other page, the page 2 of
 6 2, there's two there that, I guess, caught my
 7 eye, three, really. There's the Humber Valley
 8 Resort, Phase 2, Corner Brook area. Number of
 9 customers, 16 residential. Total cost,
 10 338,360. And the contribution in aid of
 11 recovery was 29,298. And similarly for your--
 12 the Phase 3, which is split, I guess, between
 13 residential and commercial, project costs of
 14 108,000, 18,867 as the CIAC. But then if you
 15 look at the next one, it goes St. Fintan's
 16 Cell Site, Stephenville area, one commercial
 17 customer, the cost of the project was 64,000
 18 but the contribution in aid of construction
 19 was 85,777. So, I'm wondering if you could
 20 provide an explanation, first, why the
 21 contributions in aid of construction for, in
 22 particular, the Humber Valley projects seem to
 23 be so low in comparison to the cost of the
 24 project, what would be the policy followed
 25 there, and secondly, why in the case of, for

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1 would get, the difference is what the customer
 2 has to make up in terms of the CIAC upfront,
 3 the CIAC cost. It's done as per policy
 4 approved by the Board on an individual basis.
 5 The Board would have specifically approved
 6 both of those projects and the detailed
 7 calculations therein. In a situation like the
 8 St. Fintan's Cell Site, in some situations
 9 where we're building extremely long lines to
 10 service one very small customer, in this case
 11 a \$64,000 line gone in to serve a very small
 12 load, we also look at the operating and
 13 maintenance cost for that line going down,
 14 going into the future. And in some cases it
 15 will actually be the case that the customer
 16 has to pay us more upfront than the cost of
 17 building the line because that will take into
 18 account the operating and maintenance cost we
 19 have to recover over time. So in some cases
 20 CIAC could actually even be bigger than the
 21 capital cost. But all of these are done,
 22 approved by the CIAC policy of the Board.
 23 Q. And that would apply if we look at PUB-60,
 24 just so we're clear on it, that there's
 25 another Humber Valley Resort, Phase 1, Corner

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1 MR. KENNEDY:
 2 Brook area, if you just scroll down there, for
 3 a project cost of 219,813, but there was zero
 4 dollars in contribution in aid of
 5 construction. And again, that would have been
 6 something in accordance with the CIAC policy?
 7 A. Yes, that's correct. We would have done the
 8 calculation and determined that no CIAC was
 9 involved in that, in Phase 1 of the Humber
 10 Valley project.
 11 Q. And what goes into your invested plant and
 12 therefore constituted part of your rate base
 13 is the net of those two, it would be the net
 14 of your total project cost less your
 15 contribution in aid of construction?
 16 A. I understand that to be so. I'm not an expert
 17 on rate base, but there is a line item in our
 18 rate base calculation for contributions for
 19 country homes and contributions in aid of
 20 construction. Lisa Hutchens would be our
 21 expert in terms of the application of that
 22 formula.
 23 Q. If we could go to PUB-63? And if we could
 24 just scroll down? This is relating to the
 25 note 18, which is the relocation and

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1 we're the landlord, sort of a landlord rental
 2 agreement, and Aliant would pay for our
 3 transfer costs, those are the costs associated
 4 with transferring our line off the old pole
 5 onto the new pole, and we apply a betterment
 6 in that regard. So looking at this on the
 7 surface, these 25 small projects, it looks to
 8 me that there's a fair amount of those that
 9 would be old plant. So when we transfer from
 10 the old pole to the new pole, put in our new
 11 structures, there's a benefit derived to us in
 12 terms that we have a new, all the attachments
 13 to the pole are new versus the old ones so
 14 there's a betterment calculation that takes
 15 place there.
 16 Q. Mr. Delaney, just switching topics. I wonder
 17 if we could look at PUB-68? This again
 18 relates to the capital expenditure status
 19 report. And it's relating to note 23 in that
 20 document which is additions to real property
 21 and it was a reported variance of \$97,000.
 22 And you'll see that item No. 4 in that table
 23 there's mechanical maintenance shop, Duffy
 24 Place, a forecast expenditure in 2004 of
 25 \$49,000 for a variance of \$49,000 because you

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1 replacement of distribution lines for third
 2 parties, and that was the one that had the
 3 variance of 385,000 but was 164 percent over
 4 budget. You've got Aliant in there,
 5 September, 2003, forecast cost, and this is
 6 for year to date in June, 2004, 214,000 and
 7 then the recovery amount as 25,000. So,
 8 again, is that done in accordance with CIAC
 9 policy then, the recovery of project cost for
 10 the relocation of lines specifically requested
 11 by third parties, presumably Aliant in this
 12 case?
 13 A. The recovery of the cost associated with
 14 relocates and rebuilds for Aliant are governed
 15 under the support structure agreement that we
 16 have with Aliant that we entered into in 2001.
 17 There's a myriad, there are a number of
 18 combinations, a number of various scenarios
 19 out there with respect to the replacement and
 20 relocating a pole that we could encounter.
 21 Generally it works like this, when Aliant
 22 needs to build new--bring in new wires, put up
 23 new wires on the pole, if the poles have to be
 24 replaced or relocated to accommodate that,
 25 then we pay the cost of the pole, because

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1 hadn't actually budgeted anything for the
 2 mechanical maintenance shop in your 2004
 3 capital budget application. Is that correct?
 4 A. That's correct.
 5 Q. Okay. So if we could just keep that in mind
 6 and then go to Volume 2 of the application and
 7 general property, Appendix 2, page 1? Now,
 8 Mr. Delaney, item 1 there is the Duffy Place
 9 renovate maintenance centre, cost of \$100,000,
 10 which is part of your overall project cost for
 11 additions to real property of a total of 325.
 12 And I had--am I understanding correctly that
 13 the \$49,000 expenditure in 2004 which related
 14 to the mechanical maintenance shop in Duffy
 15 Place is the same, is that the same thing that
 16 we're talking about here, Duffy Place renovate
 17 maintenance centre, are they one and the same?
 18 Should they have been treated one and the
 19 same, as the same project, in other words?
 20 A. They are the same facility.
 21 Q. I guess what I'm asking is you've got \$49, 000
 22 that was spent on that facility related to, as
 23 it's described, installation of--renovations
 24 to the Duffy Place facility to accommodate the
 25 installation of office furniture and work

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1 MR. KENNEDY:
 2 stations for additional staff assigned to work
 3 on the asset management initiative. And the
 4 description is in this document we've got on
 5 the screen is to renovate the maintenance
 6 centre to accommodate generation mechanical
 7 maintenance personnel. So, is that the same--
 8 I guess what I'm asking is is you spent
 9 \$49,000 in 2004 which wasn't specifically
 10 budget approved, but you have \$100,000
 11 budgeted in 2005, and it seems to be one and
 12 the same, that the amount in 2005 is just a
 13 continuation of something that you started in
 14 2004, and if so, the obvious question is, why
 15 wasn't this presented as a budget, a project
 16 in 2005 of \$149,000 and to do the project with
 17 the specific approval of the Board?
 18 A. The reason it wasn't presented in 2005 is
 19 because we had to do something right away.
 20 And I guess this points to the problems with
 21 defining a project. I'll describe what
 22 happened. In 2003, 2004 we embarked on asset
 23 management initiative in Newfoundland Power.
 24 It's about getting into predicting
 25 maintenance. We bought some information

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1 this is unacceptable, we had to do something
 2 here. We went out and got a plan put together
 3 and we had a design done as to for office area
 4 for our staff, staging area, proper storage of
 5 the tools and equipment. And the whole plan
 6 cost \$150,000. So, this year we are under a
 7 lot of pressure with respect to capital. We
 8 are in--we deferred some projects, as I
 9 highlighted earlier, to manage the overall
 10 capital expenditure to get it to match budget.
 11 In this year I did not want to take the full
 12 \$150,000. I wanted to address the immediate
 13 problem of getting the employees off of that
 14 loft and into suitable work stations. So,
 15 yes, we could have put a project together for
 16 150,000, brought it to the Board and
 17 immediately deferred two thirds of it, but
 18 we've been quite open and this is disclosed
 19 here in terms of the thing to do was to get--I
 20 wanted to minimize that expenditure, do as
 21 little as I had to do this year. We got our
 22 staff--the project is done. We got our staff
 23 downstairs in suitable, you know, working
 24 environment and next year we plan to complete
 25 the rest of the project which will be a

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1 technology in, some support. The strategy is
 2 all about planning jobs, scheduling jobs,
 3 doing it right the first time, being
 4 productive, being efficient, extending the
 5 service life of the equipment, all these
 6 things. To accomplish that we had to put the
 7 team together in one location. And it was an
 8 oversight in the 2004 budget. There should
 9 have been money allocated in 2004 to achieve
 10 that purpose. We put our group together in a
 11 garage, it's a building adjacent to Duffy
 12 Place that at one time had been a vehicle
 13 service centre. So what we basically had
 14 there is we had our planners and schedulers in
 15 the building. Because of the oversight we
 16 never had the money. We had planners and
 17 schedulers in that building, working PCs and
 18 our spare parts put there, our tools, try to
 19 bring the team together, asset management.
 20 There was insufficient lighting, the
 21 technicians were working in the loft of the
 22 garage, there was a set of wooden steps that
 23 went up to that loft that were unacceptable,
 24 it was dusty. It was a garage environment.
 25 So we looked at this earlier this year, said

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1 staging area for our mechanical maintenance
 2 men in terms of their spare parts and their
 3 equipment and have the team together, and it's
 4 been quite successful for us.
 5 Q. Okay. I have one more series of questions
 6 relating to the variances and the definition
 7 of project, Mr. Delaney, and that's if we
 8 could go to the status report again and the
 9 Volume 1 status report and Appendix A, and
 10 it's item 1? There we go. And this had to do
 11 with the hydro plant's facility rehabilitation
 12 which went 252,000 over budget, which I
 13 calculated at 22 percent. And it indicates in
 14 here that the variance is primarily the result
 15 of implementing demand metering in plants for
 16 the hydro demand energy rate, installing fire
 17 and intruder alarm in our hydro plant
 18 buildings and an increase in the Rattling
 19 Brook generator rewind. Then it goes on to
 20 explain that the demand metering in the plants
 21 is required to implement a demand energy rate
 22 for Hydro's billing of Newfoundland Power.
 23 And the alarms project was not originally
 24 included in the budget for 2004 as the
 25 requirement for alarms was only recently

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1 MR. KENNEDY:
 2 identified after completion of independent
 3 risk inspections of the various plants. Now,
 4 if we could first just go to PUB-41.1? And
 5 the question asked, "Explain why if the"--and
 6 it was quote from that section, "the alarms
 7 project was not originally included in the
 8 budget for 2004, why if that was the case the
 9 Company did not seek approval from the Board
 10 prior to proceeding with the project?" And
 11 the reply is that, well, under Section 41 of
 12 the Public Utilities Act approval is only
 13 required if the cost of the construction or
 14 purchase is in excess of 50,000 and the cost
 15 to install the fire and intruder alarms was
 16 forecasted at 48,000 and consequently specific
 17 prior approval of the Board is not required.
 18 Now, I wonder if we could just keep in mind
 19 that reply now look at PUB-48? And PUB-48
 20 indicates that after a breakdown of the
 21 252,000 overrun under this item and as is
 22 indicated in the earlier reply, some of this
 23 was attributable to a metering purchase for
 24 the proposed demand energy rate and that as
 25 indicated in this chart, while the budget for

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1 Q. I just have one more series of questions, I
 2 think, Mr. Delaney, and that's relating to
 3 your transmission rebuild part of your
 4 project. And it says specifically there's two
 5 projects in there, B 29 and B 30. And this is
 6 relating to the rebuilds of 43L and 124L, is
 7 that correct?
 8 A. That's correct.
 9 Q. Okay. And as I understood it, it was to
 10 address some SAIFI and SAIDI issues, is that
 11 correct, on those lines?
 12 A. No.
 13 Q. Oh, okay. So what's the justification for the
 14 project then?
 15 A. The justification for 124L is because the line
 16 is, there's not sufficient clearance between
 17 the line and the ground and it is a public
 18 safety hazard.
 19 Q. So, when you say rebuild, is that--that
 20 doesn't involve a rebuilding of your towers
 21 and all the associated hardware then, does it?
 22 A. Yes, it does. It's a complete rebuild of the
 23 line.
 24 Q. And is that only way to resolve an issue with
 25 insufficient ground clearance?

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1 that was zero, because it wasn't anticipated,
 2 I guess, at the time you did your 2003, you
 3 know, drafting of your 2004 capital budget,
 4 you're now forecasting \$100,000 expenditure
 5 under that item. And I guess in light of the
 6 reply that, well, you didn't seek approval for
 7 the fire alarms because it was under 50,000,
 8 this item is clearly above 50,000, and I'm
 9 wondering if the Company has a position on
 10 whether it intends to seek approval of the
 11 Public Utilities Board of that budget item as
 12 a separate project?
 13 (2:25 p.m.)
 14 A. Yes, we do. When this project came to our
 15 attention, there was some urgency in getting
 16 some work done. The demand rate will be
 17 implemented, is said to be implemented on
 18 January 1st. We had quite a bit of work to do
 19 in our hydro plants and our thermal plants to
 20 get the proper metering in, so there was some
 21 sense of urgency in getting this project off
 22 the ground. To date we've spent approximately
 23 \$20,000 and we anticipate that we will come
 24 before the Board to seek approval for the
 25 forecast--for the amount required.

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1 A. It is.
 2 Q. Okay. And what about the justification for
 3 43L?
 4 A. 43L is a line that's build in 1946--excuse me.
 5 1956. Given the age and the overall
 6 deterioration of the line it is our
 7 engineering judgment that it needs to be
 8 replaced, the entire length of the line which
 9 we will--we have divided the project into
 10 three parts and we anticipate rebuilding that
 11 entire line over the next three years.
 12 Q. Okay. Could we just go to PUB 9.3, please?
 13 And I'm interested in the SAIFI and SAIDI
 14 specifics for your 43L line, sir. And to a
 15 layman's interpretation of this data it would
 16 seem to suggest that your SAIDI and SAIFI
 17 figures for 43L are better than, generally
 18 better than your system average and in actual
 19 fact you've had no interruptions there in 2003
 20 or 2004 and none in 2001?
 21 A. That's correct.
 22 Q. And if you go over to the Attachment A to this
 23 response, we look at page 2 of 3, and we look
 24 at the actual comments relating to what caused
 25 the outages that are reported in 2002 which

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1 MR. KENNEDY:
 2 has got the SAIDI in 2002 of 1.9449, which is
 3 above your system average of .9 and you have a
 4 SAIFI on 43L in 2002 of 4, which is well above
 5 your system average of .84. But then if you
 6 look at the reasons, there's three of them, a
 7 trip due to washing down insulators, line
 8 tripped while crew were washing down
 9 insulators and line crew--line tripped while
 10 crew were washing down insulators. And the
 11 other ones are related to salt spray. So I
 12 guess I'm wondering first, in light of the
 13 fact that your SAIFI and SAIDI statistics seem
 14 to be much better than your system average and
 15 that the majority of the reasons for the
 16 outage in 2002 are actual human intervention,
 17 if you will, by Newfoundland Power's own
 18 employees why a rebuild to 43L is going to
 19 improve things?
 20 A. When we evaluate transmission for replacement,
 21 SAIDI and SAIFI are considerations, although
 22 they are not all we consider. SAIDI and SAIFI
 23 in terms of planning I more or less look at
 24 those statistics in terms of from a customer
 25 service angle because it's what the customer

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1 respect to this cascade issue, knowing that
 2 the poles are dried out, feedback from the
 3 line department, when you look at--when we're
 4 looking at 110 transmission lines out there,
 5 what causes us the most concern, in terms of a
 6 big event that's going to cost us a lot of
 7 money, it's not, you know, a beyond compare
 8 (phonetic) so to speak, that if you get a big
 9 cascading event, we could be into a million
 10 dollar or more type of problem down on this
 11 line. I think the time is right, right now,
 12 to address the problems on 43L over the next
 13 three years and get this line rebuilt.
 14 Q. That's all the questions I have, Chair. Thank
 15 you very much, Mr. Delaney.
 16 CHAIRMAN:
 17 Q. Okay, Mr. Kennedy. From here, do you want to--
 18 -do you have any questions?
 19 MR. ALTEEN:
 20 Q. I have one small question on redirect. I can
 21 do it after you or before you, Mr. Chairman.
 22 I'm free.
 23 CHAIRMAN:
 24 Q. Well, why don't you do it now so it keeps
 25 things in order.

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1 sees, it's a customer service measure. With
 2 respect to the rebuilding of transmission
 3 there are other factors that have to be
 4 addressed. 43L is a line where the
 5 probability of cascading is very high. The
 6 way a transmission line is built, it's built
 7 at least cost, long distances, straight lines.
 8 So if you should get a failure in the line in
 9 a particular location, it can tend to cascade
 10 and you'll have a very, very big problem on
 11 your hands. And 43L, of the lines we have, is
 12 very prone. It's prone to that cascading
 13 event should something fail.
 14 The poles on the line are incredibly
 15 dried out. We've walked the line. You can
 16 touch the line with a hammer and the wood
 17 chunks right off the poles. Our linemen, who
 18 are most experienced with poles, have a lot of
 19 difficulty with 43L because of the shelling
 20 phenomenon. As you put your climbers in the
 21 pole, it doesn't--you don't hit the heart
 22 wood, so to speak. You're only hitting the
 23 shell, and it's shelling off. They're not the
 24 safest poles in the world to climb.
 25 So knowing how the line is designed, with

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1 MR. ALTEEN:
 2 Q. Can we see RFI PUB-31.2 please, Colleen? Mr.
 3 Delaney, this is a response to an RFI in
 4 relation to the proposed Wesleyville gas
 5 turbine overhaul, and in answer to a question
 6 from Mr. Kennedy as to the costs of potential
 7 duplicated costs associated with the overhaul,
 8 you had indicated that you had expected them
 9 to be in the order of or just less than
 10 \$5,000. The last sentence of that RFI
 11 indicates that there's a benefit of deferring--
 12 -of having deferred the gas turbine for a
 13 year. Can you ballpark that, just so that the
 14 Board would have the benefit and the cost in
 15 front of them?
 16 A. Yes. The approximate benefit of deferring the
 17 overhaul of the gas turbine is somewhere
 18 between 85,000 and \$90,000, for having
 19 deferred that project one year.
 20 Q. That's all, Mr. Chairman.
 21 CHAIRMAN:
 22 Q. Okay, Mr. Alteen. Do you have any questions,
 23 Commissioner Vincent?
 24 COMMISSIONER VINCENT:
 25 Q. No, Mr. Chair.

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1 CHAIRMAN:
 2 Q. Any questions, Commissioner Martin?
 3 COMMISSIONER MARTIN, Q.C.:
 4 Q. No.
 5 CHAIRMAN:
 6 Q. I have a couple, Mr. Delaney. Just a couple
 7 of points of clarification. How old is the
 8 gas turbine, by the way? I didn't find that
 9 anywhere in the documentation.
 10 A. Subject to check, I think it's 36, could be
 11 37.
 12 Q. Okay. I wondered. If you look at page 10 of
 13 73 of your Schedule B, Volume 1, page 10, do
 14 you have it in front of you there? Or you're
 15 waiting for the screen? Okay.
 16 A. I was waiting for the screen as my -
 17 Q. Well, let's wait for it.
 18 A. For things unforeseen? My binder is a little
 19 bit -
 20 MR. ALTEEN:
 21 Q. Next page, Colleen, please.
 22 CHAIRMAN:
 23 Q. There we are.
 24 MR. ALTEEN:
 25 Q. That's it.

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1 A. So from year to year, there would be different
 2 plants with various work done on it, and that
 3 project cost, the history is for the project,
 4 not the plants.
 5 Q. As a matter of fact, the dollars that are
 6 shown here spent between 2000 and 2004, none
 7 of those dollars, conceivably, could have been
 8 spent on the five plants named here?
 9 A. That's correct.
 10 Q. I understand, okay. Just wanted to get that
 11 clarified. And I wonder, in light of that,
 12 what value the historical cost has in, let's
 13 say, evaluating the project? Maybe there is
 14 some value. But when I look at this and
 15 you're saying you're going to spend one
 16 million eight eighty-seven on these five
 17 plants in 2005, then I come down the sheet and
 18 see, well, you've spent X number of dollars on
 19 this particular classification over the past
 20 five years, but there's no necessary relevance
 21 between the two numbers?
 22 A. No, there isn't. However, in Volume--we have
 23 the details for each of those projects.
 24 Q. Yes.
 25 A. In Volume 1 or Volume 2 later on.

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1 A. Okay.
 2 CHAIRMAN:
 3 Q. Yes, that's it. I'm using this as an example
 4 really, but it's the first one that I came
 5 across. In the project description, the work
 6 includes--I'm looking at the second paragraph--
 7 includes the replacement or rehab of major
 8 components at the following plants, and you
 9 name four or five plants there. Okay? Then
 10 when you get down to the operating experience
 11 and you talk about the project costs over the
 12 past five years, you include certain dollar
 13 figures, and my question is that these dollar
 14 figures that are included there are not
 15 necessarily dollars spent on the five named
 16 plants in the first section of the project
 17 description, is it?
 18 A. That's correct.
 19 Q. Hydro plants facility we have is a category or
 20 a classification. No, it's a project title,
 21 I'm sorry, classification is energy supply?
 22 A. It's a project title within energy supply,
 23 yes.
 24 Q. Yes. It's a project title within energy
 25 supply.

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1 Q. You probably will find it further on?
 2 A. Yes, you could find it further on.
 3 Q. Yes, but looking at the face of it on Schedule
 4 B, page 10 of 73, you could be misled by the
 5 numbers, and that may be as much our fault as
 6 yours because I think we asked you to show
 7 these historical numbers and I'm wondering if
 8 we were specific enough, in terms of what
 9 numbers we were looking for. It's a question
 10 that I don't intend to deal with today, but
 11 certainly one that we may want to explore
 12 after this hearing is disposed of.
 13 MR. ALTEEN:
 14 Q. It's a valid point, Mr. Chairman. There's no
 15 doubt about it. There's no perfection in
 16 this.
 17 CHAIRMAN:
 18 Q. Okay. Look at page 29 of 73. I'm in the same
 19 Schedule B. Here we are. Again, refer to the
 20 project cost table that you show, and you have
 21 a dollar figure of two and a half million,
 22 approximately, for 2005, and then you show
 23 future years. 2006, 5.1 million, and then in
 24 the period '07 to '09, which is inclusive on a
 25 three-year period, I presume, it's 15 1/2

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1 CHAIRMAN:
 2 million. I have two questions in relation to
 3 that. One is would reliability suffer if
 4 these amounts were spaced out over a longer
 5 term? And I'm particularly talking here about
 6 the amount you show in the '07 to '09 period.
 7 Would there be any detrimental impact on
 8 reliability if that were spaced out over a
 9 longer term? And before you answer that, the
 10 second question I have is, what benefits would
 11 there be to shortening it up or compressing
 12 the term? And I'm thinking of the advantages
 13 that you might pick up in the operations costs
 14 side of the project, it's impact on your
 15 operating costs if the reliability is improved
 16 over a shorter period. And I'm sure you
 17 follow what I'm saying here.
 18 A. Yes, I know what you're saying.
 19 Q. Okay. So maybe you could deal with both parts
 20 of that, Mr. Delaney.
 21 A. Okay. There's a short answer and a bit of
 22 explanation behind it.
 23 Q. You give whatever answer you want to give,
 24 because we've got lots of time.
 25 A. The reality is if we extend this out over a

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1 designed. They were designed, surveyed,
 2 designed, designed for ice loading, designed
 3 for strength, wind, all these things, you
 4 know.
 5 Q. They got more sophisticated.
 6 A. More sophisticated.
 7 Q. Yes.
 8 A. Prior to that time, and you can see we got a
 9 lot of these lines out there, it was we went
 10 out with a bunch of poles and wires and built
 11 lines. It wasn't as sophisticated. So those
 12 lines now, 60, sort of the age now, 40- 50
 13 years old, you know, that type of age frame.
 14 So I asked one of the engineers, the engineer
 15 in charge of transmission, how much of this do
 16 we have out there that's substandard? Let's
 17 call that substandard line versus standard.
 18 And how much would we have to spend--this is
 19 very preliminary analysis--to get rid of it
 20 all in ten years? Okay, how much would we
 21 have to spend? So about 25 percent, 25- 30
 22 percent of our line is of that nature. It's
 23 old line, wasn't engineered to standard.
 24 There's clearance problems. It's just getting
 25 old and deteriorated. And I described to you

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1 longer period of time, there would be some
 2 detriment to reliability. Reliability will
 3 suffer to some degree if we extend it over a
 4 long period of time. If we shorten it up,
 5 yes, we could bring our operating costs down.
 6 Q. Okay. Have you done any calculations or have
 7 you--well, in dealing with projects such as
 8 this one and looking down the road four and
 9 five years, is it your practice to do an
 10 assessment of what those costs are for the
 11 longer term or the compressed term?
 12 A. Exactly. We plan in 2005 to focus some
 13 engineering in studying our transmission line
 14 system. I'll describe to you the situation
 15 we're dealing with. In the plan, you'll
 16 notice, you notice correctly that transmission
 17 line expenditures seem to be increasing in the
 18 plan. What we're dealing with, with
 19 Newfoundland Power, is--I try to stay out of
 20 the chief engineering. Around the early 60s,
 21 there's a divide in transmission line
 22 construction. After the early to mid 60s,
 23 it's not a--this never happened on one day.
 24 It kind of happened over time. Transmission
 25 line assets became engineered. They were

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1 transmission, when you have transmission
 2 problems, they tend to be very expensive when
 3 you have them.
 4 So if we were to approach that over the
 5 next ten years, so that no line ever exceeded,
 6 the line built in 1960 would be replaced in
 7 2015. So you're talking 55 years old. How
 8 old is it? What have we got to start doing?
 9 How much do we have to start spending? So
 10 we're looking at it from that perspective that
 11 we don't want to snow plough all this work and
 12 then suddenly get out there in 2009, 2010 with
 13 \$10 million transmission projects with--you
 14 know, and suffer the reliability consequence.
 15 So realizing that we have these lines--
 16 and another good point to make about these
 17 lines is a lot of them are on 35-foot, 30-foot
 18 small poles. You know, we call them the
 19 blackjack poles. When you find the
 20 deficiencies in the line, you know, you're
 21 throwing--you're putting money--you got to fix
 22 the deficiency. You got to keep it safe. So
 23 you're putting brand new insulators, brand new
 24 cross arms, brand new equipment on an old line
 25 and transmission is not something that you

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1 MR. DELANEY:
 2 just go in and replace a pole here, replace a
 3 pole there, like a distribution line. With
 4 transmission, you got to design the whole line
 5 because one pole is dependent on what the
 6 other poles are, in terms of their sizes and,
 7 you know, the strength of the line.
 8 So realizing that we have a lot of old
 9 transmission, trying to look at the time
 10 frame, you know, how long are we going to run
 11 this stuff, you know, 60, 55 years old? We
 12 put the preliminary stages of a plan together
 13 that's telling us that we're going to have to
 14 start to up the investment in transmission or
 15 we're going to snow plough an awful lot of
 16 problems out five, ten-year time frame. So
 17 this plan does show some increase in that
 18 transmission line expenditure.
 19 Q. Okay. Page 34 of 73, I just have a general
 20 question in relation to that. Your AMR
 21 meters, I think that's what you refer to them
 22 as, automatic--which enables automatic meter
 23 reading?
 24 A. Yes, yeah.
 25 Q. Yes. They've been increasing in numbers, in

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1 with AMR. We've proposed nothing in 2005, but
 2 in 2005, we're going to do meter reading
 3 strategy. You know, just look at meter
 4 reading totally within this company, all
 5 aspects of operating and capital expenditures
 6 associated with meter reading, and AMR is
 7 going to be a big part of that. It's just
 8 premature right now with respect to the longer
 9 range plan where we're going to go. But,
 10 we're going to take that on next year as a
 11 project to analyze, you know, AMR with the
 12 possibility of bringing it forward in 2006 as
 13 a capital budget item.
 14 (2:45 p.m.)
 15 We're looking at interest to a lot of
 16 things that are going on in Canada right now.
 17 There is a bit of momentum behind AMR.
 18 There's been some changes at Measurement
 19 Canada which have sparked things. Prior to--
 20 might have my time--prior to this year or last
 21 year, Measurement Canada required a much
 22 shorter interval with respect to the
 23 replacement of AMR meters.
 24 Q. Yes.
 25 A. And now they've changed their rules, so that

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1 terms of your budget, each year since
 2 approximately 2000. What do you anticipate
 3 will happen in this regard in subsequent
 4 years? I don't get that information from
 5 reading the information you filed, but I can
 6 see the advantages and the benefits of using
 7 automatic meters, you know. It enables you, I
 8 think, to do your meter reading faster. I
 9 think you addressed that here somewhere. Have
 10 you done any studies to indicate what will be
 11 the extend of that program, say over the next
 12 five or ten years? Do you have any feel for
 13 that or am I premature in the question?
 14 A. No, no. It's very much on our mind. In 2004,
 15 this year, sometimes I get mixed up a bit in
 16 budgeting, but we're doing a significant
 17 number of AMRs this year. Getting our foot in
 18 the door, so to speak. Testing to make sure
 19 all this technology works. And the approach
 20 we took this year, there were a number of
 21 situations out there that were difficult to
 22 access, some problems where meter readers had,
 23 you know, indicated there were safety problems
 24 with respect to these meters. So we sort of
 25 targeted it that way, got our foot in the door

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1 AMR now is no different than the other meters.
 2 So there's been a significant change in the
 3 operating cost of AMR going forward, in terms
 4 of staying compliant with Measurement Canada.
 5 So that's got our interest. There are big
 6 initiatives going on in Ontario with respect
 7 to smart meters. So we'll be looking at the
 8 meter reading strategy next year and AMR will
 9 be part of it.
 10 Q. Mr. Delaney, you appear to be the type of a
 11 fellow who keeps up to date on what's going on
 12 in the industry. What's been the practice in
 13 other utilities with respect to AMRs? Is
 14 there much -
 15 A. The most advanced -
 16 Q. Is there an extensive use of them?
 17 A. Yes, the most advanced is ATCO Electric in
 18 Alberta.
 19 Q. Okay.
 20 A. If they're not 100 percent, they're pretty
 21 well close to 100 percent all AMR.
 22 Q. Yes.
 23 A. Similar to us in a lot of ways, in terms of
 24 they're rural, very rural utility in Alberta.
 25 There's various starts and stops all over.

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1 MR. DELANEY:
 2 There's some significant things--I'm not
 3 totally up to date, because Ontario's market
 4 changes a lot, but the government has mandated
 5 some huge number, I don't know the number
 6 offhand, of smart meters that have to be
 7 installed by a certain date. But the leading
 8 utility in Canada, in terms of AMR
 9 installation, is ATCO Electric in Alberta.
 10 Q. Do they have any statistics that you have
 11 access to, in terms of what cost savings there
 12 are? Because I can imagine a lot of cost
 13 savings that there would be for the utility
 14 company, the meter reading side of it, for
 15 sure.
 16 A. Yes. I haven't asked them directly, but I sit
 17 on the distribution council of CEA with a
 18 representative from ATCO and the information,
 19 you know, is something I'll be looking at from
 20 him, in terms of when we do our AMR -
 21 Q. When you do your long study. That's
 22 interesting.
 23 A. Yes, there's a lot of potential in AMR.
 24 Q. I'm sure there is, and you've really only
 25 scratched the surface.

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1 gather?
 2 A. About a year ago, this was the big buzz in
 3 some distribution circles in CEA, Canadian
 4 Electrical Association.
 5 Q. Yes, I read about it about a year ago, as a
 6 matter of fact.
 7 A. Yes, about a year ago.
 8 Q. Yes.
 9 A. It's certainly technically feasible. It's a
 10 little bit farther along in Europe than it is
 11 here. But I would characterize all the
 12 projects going on in North America as
 13 experimental at this stage.
 14 Q. Yes.
 15 A. So we will follow it, with interest.
 16 Q. Good. I just thought I'd throw that in there.
 17 I'm sure that your company is going to follow
 18 it with interest. It certainly has some
 19 potential, seems like. I did have one more
 20 question here. Yes. Just a matter of
 21 interest, more than anything. I came across
 22 the--this is having to do with, let's see, PUB
 23 30.1, the questions that were put to you, in
 24 response to that, you put in a corporate
 25 distribution reliability review as an

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1 A. Exactly.
 2 Q. Yes. I had some concern at one stage during my
 3 reading of these documents about the
 4 prioritization of your distribution line
 5 rebuilds and so on, but I think that the RFIs
 6 that were put forward, I think you've answered
 7 all of the questions that I had. Here's an
 8 interesting item that really has nothing to do
 9 with what we're talking about. I just wanted
 10 to circulate this, and this is an opportune
 11 time, and it's almost break time. Ms.
 12 Blundon, would you? This is an article that
 13 appeared in the Financial Post and it's very
 14 interesting, certainly one that I'm sure, Mr.
 15 Delaney, it wouldn't be a surprise to you.
 16 But this, briefly put, is an article that
 17 talks about the transmission of broadband over
 18 electrical power lines, and this appeared in
 19 August of this year. And I'm wondering if
 20 you're aware of what's happening in this area,
 21 in your industry. I'm thinking about it as
 22 another source of revenue for your company.
 23 A. Like pole rentals.
 24 Q. Take away from the cost that the consumers are
 25 bearing now. But, this has potential, I

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1 Attachment A, and on page V-5, I think it's
 2 still the same document, V-5--was it V-5?
 3 Wait now. I'm sorry. V-12. There's just an
 4 interesting comment you had there in relation
 5 to the HUM-09 line in Corner Brook. "Tree
 6 contact continues to be a major source of
 7 problems with this feeder. The community
 8 desires the large trees in this area, however
 9 extensive tree trimming was completed on the
 10 feeder. We will continue to monitor" and so
 11 on. So I gather, in that particular area,
 12 which I'm familiar with, in terms of having
 13 been to Corner Brook several times over the
 14 years, that trees would be a problem there.
 15 Are the outages that you've experienced such
 16 that--well, let me ask the question in another
 17 way. Are the people that live in the area
 18 aware of the reason for the outages?
 19 A. Yes.
 20 Q. When they're caused by trees?
 21 A. Yes. I'm from Corner Brook myself and I'm
 22 very familiar with the tree problems in Corner
 23 Brook. Yes, the customers are -
 24 Q. So you don't get blamed for the outages?
 25 A. Let's put it this way. After we have outages

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1 MR. DELANEY:
 2 with respect to trees, we are out in full
 3 force trying to get trees trimmed. We try to
 4 make sure that it's top of awareness at the
 5 time, as well, because people will tend to
 6 forget that later on in the year.
 7 Q. There's no coincidence in the fact that I ask
 8 that question and the other two commissioners
 9 on this panel are from Corner Brook, by the
 10 way.
 11 A. And the witness.
 12 Q. And the witness. Anyhow, that's all the
 13 questions that I had. Now then, Mr.--who's
 14 next? Mr. Kennedy?
 15 MR. KENNEDY:
 16 Q. Yes. Nothing arising, Chair.
 17 CHAIRMAN:
 18 Q. Nothing arising?
 19 MR. KENNEDY:
 20 Q. No.
 21 MR. ALTEEN:
 22 Q. Nothing, Mr. Chairman.
 23 CHAIRMAN:
 24 Q. Nothing arising. Thank you, Mr. Delaney.
 25 A. Thank you, Mr. Chairman.

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1 name, your position, and the matters on which
 2 you'll be testifying today.
 3 A. And good afternoon, Mr. Chairman,
 4 Commissioners. My name is Peter Collins. I'm
 5 the manager of information systems at
 6 Newfoundland Power. I will be testifying on
 7 the proposed \$3.243 million in the information
 8 systems category of the 2005 Capital Budget
 9 application.
 10 Q. In this proceeding, Mr. Collins, Newfoundland
 11 Power has filed in its principle submission
 12 materials relating to the information
 13 technology expenditure proposed for 2005,
 14 variances analysis and explanations for 2004,
 15 and in addition, they've responded to request
 16 for information from Board staff on
 17 information systems matters. Were these
 18 materials prepared under your direction?
 19 A. Yes, they were.
 20 Q. And do you adopt them today as your pre-filed
 21 evidence in this proceeding?
 22 A. Yes, I do.
 23 Q. Mr. Collins, could we start with a comment on
 24 your outlook for information technology for
 25 the next five years?

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1 Q. Is this a good time for our break in the
 2 afternoon, while we're changing witnesses?
 3 MR. ALTEEN:
 4 Q. Probably would be. We can change a witness.
 5 Get to another witness. Have another little
 6 break, get to the third witness.
 7 CHAIRMAN:
 8 Q. Okay. Let's do that. We'll come back in 15
 9 minutes.
 10 (BREAK - 2:53 p.m.)
 11 (RESUME - 3:10 P.M.)
 12 CHAIRMAN:
 13 Q. Okay, Mr. Alteen.
 14 MR. ALTEEN:
 15 Q. Thank you, Mr. Chairman.
 16 CHAIRMAN:
 17 Q. We got Mr. Collins?
 18 MR. ALTEEN:
 19 Q. Peter Collins.
 20 MR. PETER COLLINS, SWORN
 21 CHAIRMAN:
 22 Q. Thank you. Be seated, please. Okay, Mr.
 23 Alteen.
 24 MR. ALTEEN:
 25 Q. Thank you, Mr. Chairman. Please state your

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1 A. Our strategy for investment in information
 2 technology for 2005 to 2009 remains unchanged
 3 since 1999. We will continue to invest in and
 4 use technology to improve customer service,
 5 operating efficiencies and reliability. We
 6 will accomplish this by focusing on getting
 7 more value from our existing technology
 8 investments. This will be done in two ways:
 9 number one, by upgrading or enhancing our
 10 existing software and applications; and
 11 secondly, by extending the life of our
 12 technology assets.
 13 Q. Can you please give the Board an overview of
 14 how information technology is generally used
 15 within Newfoundland Power, Mr. Collins?
 16 A. Technology allows us to offer our 220,000
 17 customers more choices in how they interact
 18 with us, such as: through an automated voice
 19 response system or IVR; through electronic
 20 mail; through the internet website; or by
 21 choosing to speak to a live contact centre
 22 agent. Technology allows us to offer choices,
 23 to offer customers flexible choices in how
 24 they would like to be billed. They can choose
 25 options, such as: a 10 or 12-month equal

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1 MR. COLLINS:
 2 payment plan; automatic deduction payment
 3 plan; or electronic billing. These options
 4 would not be possible without the use of
 5 technology. In order for the company to be
 6 productive and efficient, technology allows us
 7 to manage large volumes of data that would be
 8 impossible to do manually. We must process
 9 large amounts of information on a daily,
 10 weekly and yearly basis. Applications, such
 11 as the Great Plains Financial system, allow us
 12 to capture, process and store large volumes of
 13 data very efficiently. The customer service
 14 system allows us to process millions of meter
 15 readings and bills each year.
 16 Technology is also helping us to improve
 17 the reliability of the electrical system. At
 18 the system control centre on Topsail Road, the
 19 SCADA application monitors and controls much
 20 of the electrical system across the province.
 21 For monitored distribution and transmission
 22 lines, this application gives us immediate
 23 notification of outages on the electrical
 24 system, rather than wait for a customer call.
 25 Using SCADA's remote control capability, we

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1 things as sharing information between
 2 employees, updating customer information, and
 3 monitoring the status of the electrical
 4 system. The Corner Brook office is connected
 5 to the St. John's office by the network.
 6 Network components are budgeted for in the
 7 network infrastructure line item that you see
 8 on the screen. On the employee's desk in
 9 Corner Brook is a personal computer. These
 10 personal computers are budgeted in the
 11 personal computer infrastructure category that
 12 you see on the screen. On the employee's
 13 personal computer, there are applications,
 14 such as the customer service system, that the
 15 employee uses every day to perform his work
 16 duties.
 17 To serve the customer, the employee in
 18 Corner Brook looks up the customer's account
 19 information. This customer information is
 20 stored on a shared server in St. John's and
 21 sent over the network to the employee's
 22 personal computer in Corner Brook. The shared
 23 servers that centrally store data, such as
 24 customer data, are budgeted for in the shared
 25 server infrastructure line item that you see

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1 can cost effectively respond to trouble on the
 2 electrical system and minimize outage
 3 durations for customers.
 4 Overall, our use of technology at
 5 Newfoundland Power has three focuses. We want
 6 to improve upon the service we provide to our
 7 customers. We want to become more productive
 8 by improving our operating efficiency and we
 9 want to improve our electrical system
 10 reliability.
 11 Q. Can you provide the Commissioners with an
 12 overview of the categories of projects that
 13 are found in the information systems budget,
 14 Mr. Collins?
 15 A. Yes. At this time, I would ask Colleen to
 16 bring up Schedule B, page eight of 73, please.
 17 Information technology, by its very nature, is
 18 often difficult to comprehend. Let me explain
 19 what I mean by the various project categories
 20 that you see before you on the screen. To do
 21 this, I'll use an example of a customer being
 22 served by an employee in our Corner Brook
 23 office, and how technology comes into play.
 24 We use a network to connect our offices across
 25 the province. This network is used for such

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1 on the screen. It's the last project on the
 2 screen.
 3 Continuing on with this example then, the
 4 customer wants to sign up for electronic
 5 billing or e-bills. E-bills allow customers
 6 to receive their bills in their e-mail, rather
 7 than receive a printed bill in the mail. Last
 8 year we improved or enhanced our customer
 9 service system application in order to be able
 10 to provide this service to our customers.
 11 This is the type of project that can be found
 12 in the application enhancements category,
 13 which is the first project on the screen.
 14 Application enhancements in general are all
 15 about making improvements to customer service
 16 and operating efficiency. In fact, e-bills is
 17 an example of both improvements to customer
 18 service and improving our operating
 19 efficiency.
 20 In order for us to be able to make such
 21 enhancements to our systems, we need to be
 22 able to test changes that we are making to
 23 applications such as the customer service
 24 system. We use test and development software
 25 to write enhancements and test how they will

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1 MR. COLLINS:
 2 work for customers before we make them
 3 available to customers. This is important
 4 because I don't want any changes that we make
 5 to cause something else to fail. I cannot
 6 risk interrupting service to customers. The
 7 software necessary for this testing is an
 8 example of what is included in the application
 9 environment line item, which is the second
 10 project on the screen. This line item also
 11 includes upgrades that we must make to our
 12 software to maintain support from suppliers,
 13 such as Microsoft and Oracle. This means that
 14 if we have a problem with software, such as
 15 our internet website, for example, we will be
 16 able to call the supplier to help us to
 17 quickly correct the problem.
 18 The customer systems replacement line
 19 item on the screen refers to our customer
 20 service system. I give it special attention
 21 here because it is our biggest and most
 22 complex application. This line item will
 23 contain projects to manage the risk associated
 24 with this aging application.
 25 Q. Can you give us some specifics about the

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1 our 110 transmission lines.
 2 The next project on the screen is the
 3 application environment project. Investment
 4 in the application environment is necessary to
 5 upgrade outdated software and to ensure our
 6 applications are working properly. This
 7 project totals \$710,000. This amount is about
 8 what we spend each year to keep our technology
 9 environment up to date. In 2005, for example,
 10 we are upgrading key software used by customer
 11 contact centre agents to respond to customer
 12 requests. The supplier will not be supporting
 13 this software beyond February of 2005.
 14 Upgrading this software will ensure that these
 15 software products will continue to be
 16 supported by the supplier.
 17 The next project is the customer systems
 18 replacement project. As outlined in the
 19 customer service system study that we filed
 20 with the Board last year as part of the 2004
 21 Capital Budget application, the obsolescence
 22 of Open VMS is an ongoing issue that we are
 23 monitoring. As the operating system, Open VMS
 24 plays a vital role in making sure the customer
 25 service system is available to serve

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1 information systems projects that are actually
 2 proposed in this 2005 Capital Budget, Mr.
 3 Collins?
 4 A. There are six projects in the information
 5 systems category, totalling \$3.243 million or
 6 approximately seven percent of the total
 7 proposed 2005 Capital Budget. These projects
 8 are reflective of our strategy for investment
 9 in technology. This total of \$3.243 million
 10 is the lowest capital budget for information
 11 systems since 1997 and is 20 percent lower
 12 than the 2004 forecast.
 13 The first project on the screen, the
 14 application enhancement project, is required
 15 to make further improvements to existing
 16 applications. There are over 30 applications
 17 in use throughout the company. This project
 18 totals \$1,087,000. Some examples of
 19 applications we are improving in 2005 are the
 20 customer service system, the Great Plains
 21 financial system, and the SCADA system. As
 22 well, in 2005, we will be improving the asset
 23 management system to provide efficiencies
 24 around the planning, scheduling, completion
 25 and efficiency follow up in the inspection of

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1 customers. That is, the customer service
 2 system will not work without Open VMS. The
 3 customer service system is our biggest
 4 application and is our primary system for
 5 serving customers. In the study, it stated
 6 that while industry support for Open VMS
 7 continues to decline, the supplier, Hewlett
 8 Packard, is committed to supporting it until
 9 2011. The potential replacement costs of a
 10 new customer service system is estimated to be
 11 10 to \$15 million.
 12 Therefore, over the next several years, I
 13 will be doing two things with regard to this
 14 important application. I will look for ways
 15 to extend the life of this 13-year-old system
 16 for as long as possible. By extending the
 17 life of this system, we are saving
 18 approximately a million dollars for customers
 19 for every year we can defer its replacement.
 20 I will also look for ways to reduce our
 21 reliance on Open VMS over the next several
 22 years. By reducing the size and complexity of
 23 the existing customer service system, the
 24 replacement cost of a new system will be
 25 reduced.

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1 MR. COLLINS:
 2 The customer systems replacement project,
 3 totalling \$144,000, will allow us to reduce
 4 our reliance on the Open VMS operating system
 5 and improve operating efficiencies. We will
 6 continue to monitor industry developments in
 7 this area to ensure that the risk to customer
 8 service and the company are being managed
 9 appropriately.
 10 The fourth project on the screen is the
 11 network infrastructure project. This will
 12 allow us to make improvements to the company's
 13 network. This project totals \$276,000. As I
 14 described earlier, the network allows
 15 employees and customers to access information
 16 from applications, such as the customer
 17 service system. In 2005, a significant
 18 project in this category is the replacement of
 19 the network switch in the system control
 20 centre at Topsail Road for \$129,000. Through
 21 this network switch, the system control centre
 22 is connected to the St. John's Regional Office
 23 at Duffy Place and to head office on Kenmount
 24 Road, as well as several offices across the
 25 province. It is a key link on our

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1 The last project is the shared server
 2 infrastructure project. This project is
 3 required to allow the company to keep its
 4 shared servers from becoming obsolete. The
 5 shared server infrastructure project totals
 6 \$571,000. In 2005, we will be replacing five
 7 servers that have reached the end of their
 8 useful lives. Shared servers generally have a
 9 useful life of about five years. The five
 10 servers I am replacing in 2005 average over
 11 seven years old. Like personal computers,
 12 this is another case where I am exceeding
 13 industry averages on the life of our
 14 equipment.
 15 As well, this project will focus on
 16 improving the security of customer and company
 17 information. Security concerns range from the
 18 malicious, such as viruses and hacking, to the
 19 accidental, such as system crashes due to
 20 hardware failures, software bugs and even
 21 fires. Securing the company's customer data
 22 from these threats is critical to maintaining
 23 current levels of operating efficiencies and
 24 customer service.
 25 Q. Do you have any concluding remarks, Mr.

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1 communications network.
 2 The next project, the personal computer
 3 infrastructure project, is required to allow
 4 the company to keep its personal computers and
 5 associated technology from becoming obsolete.
 6 This project totals \$455,000. There are
 7 essentially two groups of employees at
 8 Newfoundland Power. One group has high
 9 personal computer capacity requirements and
 10 one group has low personal computer capacity
 11 requirements. Employees with high capacity
 12 requirements will receive a new personal
 13 computer. Their old personal computers are
 14 reassigned or cascaded to employees with low
 15 capacity requirements. This extends the
 16 useful life of our personal computers and
 17 minimizes costs.
 18 We have been constantly improving the way
 19 we manage personal computers. In recent
 20 years, the company has increased their useful
 21 life. For 2005, the desktop computers to be
 22 replaced will be over five years old, although
 23 laptop computers will be four years old. In
 24 2005, we will be replacing just under 20
 25 percent of the company's personal computers.

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1 Collins?
 2 A. Yes. The information systems projects that
 3 you see on the screen reflect our overall
 4 approach of getting more value from existing
 5 investments. Sometimes this takes the form of
 6 upgrading and enhancing our existing
 7 technology and sometimes it takes the form of
 8 extending the lives of our technology assets.
 9 By recent historical standards, this is a low
 10 budget for information systems. Our need to
 11 invest in technology is not as great next
 12 year, in part because we are getting more
 13 value from our existing technology through
 14 upgrades and enhancements, and we are
 15 extending the useful lives of the technology
 16 for as long as we can.
 17 In summary, Mr. Chairman and
 18 Commissioners, this budget is least cost and
 19 is directed at improving customer service,
 20 operational efficiencies and reliability.
 21 Thank you.
 22 Q. That concludes the witness' testimony in
 23 direct, Mr. Chairman. He's available for
 24 cross-examination.
 25 CHAIRMAN:

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1 Q. Thank you, Mr. Alteen. Mr. Kennedy.
 2 MR. KENNEDY:
 3 Q. Thank you, Chair. Mr. Collins, I wonder if we
 4 could just look at the issue of the
 5 calculation of the impact of the productivity
 6 efficiencies that you've forecasted as being
 7 the result of some of your IT-related
 8 projects, and we can start, I suppose, with
 9 PUB 22.2. And this related to your capital
 10 budget category of application enhancements, 1
 11 million 87 in total, and the question asked
 12 was "provide details of the cost analysis
 13 associated with improvements to the line
 14 inspection systems" and that project cost was
 15 indicated to be \$83,000 in your budget
 16 application. And if we could just go to the
 17 Attachment A, please. Okay. So, and you
 18 attempted to provide, I take it, a calculation
 19 on the net present value that supports the
 20 decision to make this purchase of technology
 21 related to your line inspections, correct?
 22 A. Yes, that's correct.
 23 Q. And if I'm reading this correctly, that the
 24 initial investment in this particular
 25 technology of \$83,000 in 2005, over a five-

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1 were issued to Newfoundland Power in which it
 2 requested for you to first identify the
 3 projects in which the primary justification
 4 was operating expenditures, and then where the
 5 primary justification for the project related
 6 to operation--sorry, operating efficiencies,
 7 where the primary justification related to
 8 gains in operating efficiencies to provide a
 9 net present value to support that operating
 10 efficiency. Correct?
 11 A. Yes, there were several RFIs on that.
 12 Q. And for the benefit of the panel, I can give
 13 you the list of the RFIs that asked
 14 specifically for that information, and it was--
 15 they're all PUBs, 22.2, 22.6, 22.7, 23.2,
 16 42.2, and 43.2, and I think that's all of
 17 them. I think that's all the projects. Now
 18 Chair, this is another spreadsheet of a sorts
 19 that I did up which tries to capture the
 20 information that's in those RFIs that I just
 21 provided the list for. Again, similarly to
 22 the previous one, I've provided counsel with a
 23 copy of this yesterday. Presumably he passed
 24 it along to Mr. Collins, but again, Mr.
 25 Collins hasn't had a great deal of time to be

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1 year life span, gives a present value of
 2 11,125? Correct?
 3 A. Yes, that's correct.
 4 Q. Okay. And so, and the positive figure denotes
 5 a positive present value obviously. In other
 6 words, it's to the good of rate payers and, in
 7 turn, the company to spend this \$83,000?
 8 A. Yes, that's correct.
 9 Q. And you're clearly writing down the software
 10 investment over a two-year period, according
 11 to your capital cost allowance, Column B, 50
 12 percent in one year and 50 percent in the
 13 other year?
 14 A. Yes.
 15 Q. And then your chief source of operating
 16 efficiency gains for this project comes from
 17 labour? Is that correct?
 18 A. Yes, that's correct.
 19 Q. And if I'm reading it correctly, you're
 20 forecasting under this net present value that
 21 the investment of this \$83,000 technology
 22 related to line inspections will result in
 23 2006 saving \$23,453 in labour costs?
 24 A. Yes, that's correct.
 25 Q. Okay. Now there were a number of RFIs that

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1 able to do an analysis of this. So I think
 2 that's certainly something that could be taken
 3 into account. There's a copy for the witness.
 4 I don't imagine he has one right there in
 5 front of him. And one for the panel members.
 6 And if it's in order, we can call that
 7 Information No. 2, Chair.
 8 MR. ALTEEN:
 9 Q. Fine, Mr. Chairman.
 10 (3:33 p.m.)
 11 MR. KENNEDY:
 12 Q. Now Mr. Collins, what I've done in this table
 13 was I took the information that you had in
 14 each of the net present value calculations,
 15 where they were provided, and I just added
 16 them together basically. So under application
 17 enhancements, you can see these are the
 18 projected labour savings per your net present
 19 value calculations relating to each of those
 20 projects, as identified in the RFI, and I just
 21 took two years, 2006 and 2007. In most of
 22 your net present values, you extrapolate that
 23 out to 2010, over your five-year period, with
 24 some sort of escalation clause in there for
 25 your wages. And you can see that for B-61

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1 MR. KENNEDY:
 2 application enhancements, in those projects
 3 that Newfoundland Power has indicated that the
 4 primary justification for the investment is to
 5 achieve operational efficiencies, it totals
 6 \$206,301 in labour costs projected to be
 7 saved, according to your net present value
 8 calculation, in 2006 for that project
 9 category. And you can see then, when I do the
 10 same thing for application environment--I see
 11 my spelling hasn't improved--and CSS
 12 replacement, that the total annual labour
 13 savings for 2006, as identified by
 14 Newfoundland Power in support of these
 15 particular IT projects, it comes to 344,267.
 16 A. Yes, that's correct.
 17 Q. Okay, now, I took a--in order to try to do
 18 some rudimentary analysis here of taking
 19 approximate average salary per employee of
 20 \$45,000, I understand that's probably on the
 21 low side, that was because I excluded the
 22 lawyers out of the equation.
 23 MR. ALTEEN:
 24 Q. Cheap shot, Mr. Chairman.
 25 MR. KENNEDY:

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1 so, you know, we'll--and I'll be involved in
 2 looking at, making sure that, you know,
 3 there's some reasonableness to what they're
 4 putting forward, in terms of what they hope to
 5 save. In some cases with these projects and,
 6 you know, our main one in particular and
 7 that's the CSS--sorry, the Customer Systems
 8 Replacement Project and I can give you a
 9 reference for that.
 10 Q. B65 if you're looking for the -
 11 A. Okay, B65, yes. That particular project,
 12 there will be an FTE savings beginning in
 13 2006. The nature of that project, we're going
 14 to be reworking the way the customer service
 15 system overnight processing works, such that
 16 we may not, you know, we will not require a
 17 shift operator to work overnight. So there
 18 will be a FTE savings there. And essentially
 19 what will happen with that position would be,
 20 that person will actually go over to another
 21 department and displaces some temporary labour
 22 that's over there today that's helping out.
 23 So in a case like that, absolutely there would
 24 be an FTE savings for the company.
 25 A lot of the other projects, you're not--

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1 Q. But I guess, be that as it may, whatever sort
 2 of range we're dealing with in, you can see--
 3 ultimately what I'm trying to drive at here is
 4 that if you're indicating in your net present
 5 values that you are going to make these
 6 operational efficiencies showing up in labour
 7 savings, it should end up resulting, I would
 8 suggest, in a reduction in your FTEs by virtue
 9 of you being able to knock that labour
 10 component out of your system. And I wonder if
 11 you could first comment on that, whether
 12 that's a fair sort of assessment or analysis
 13 of what's taking place here?
 14 A. I think the assessment is fair, but there's a
 15 couple of things going on, Mr. Kennedy, that I
 16 would like to explain to the Board.
 17 Q. Sure.
 18 A. Yes, when we look at the net present value
 19 analysis, especially when we have operating
 20 efficiencies coming out of technology
 21 projects, we'll sit down and certainly my
 22 staff with sit down with the department
 23 affected and we'll, you know, they are the
 24 ones that are coming up with--that department
 25 is the ones coming up with the labour savings,

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1 it's really bits and pieces of people, so it's
 2 not, you know, it's not as cut and dry as that
 3 customer systems replacement project I just
 4 talked about. And I'll use an example of that
 5 one as well. It's in my own shop, in the IS
 6 department we have a help desk with two people
 7 on it, and a help desk takes calls from all
 8 over the province, whether it has to do with,
 9 you know, PC networking or, you know, the
 10 computer won't turn on, monitor is blank,
 11 passwords need to be reset. So I also get
 12 calls, you know, unfortunately from across the
 13 island about the responsiveness of the help
 14 desk. Most people don't want to be leaving a
 15 voice mail. When they call the help desk,
 16 they're usually in some sort of difficulty
 17 with their computer and they want to talk to
 18 somebody right away to fix the problem. And
 19 so looking at that issue and not wanting to
 20 add another body to the help desk and go from
 21 two to three, we looked at our stats and the
 22 type of calls that were coming in and
 23 passwords were--the resetting of passwords
 24 were about 10 percent of our calls. So to
 25 justify password management software as part

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1 MR. COLLINS:
 2 of the application environment project, B63,
 3 what I'm doing there is I'm taking the calls
 4 and I'm going to get those calls handled a
 5 different way through the purchase of some
 6 software. And what that will mean is that
 7 that frees up my help desk staff to be able to
 8 respond to other calls, so maybe get those
 9 calls that are constantly going to voice mail,
 10 that sort of thing. It allows them to be more
 11 responsive, creates some capacity. So that's
 12 generally the nature of both types of savings
 13 that are going on there, Mr. Kennedy.
 14 Q. So if I'm gathering correctly then, it's both
 15 a case of potentially lowering existing labour
 16 costs or avoidance of incurring new labour
 17 costs?
 18 A. Yes, absolutely.
 19 Q. Okay. And in the first example, the lowering
 20 of existing labour costs that that may either
 21 show up in a reduction of your current FTE
 22 account or it may display some other cost for
 23 one department which allows you to shift
 24 employees to another?
 25 A. Yes.

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1 A. Yes, that's correct.
 2 Q. And then if we go to the next one, next page,
 3 oh I see, it's attachment B, beg your pardon,
 4 \$188.00.
 5 A. Yes, that's correct.
 6 Q. And then the next one, bank reconciliation,
 7 Attachment C, \$261.00.
 8 A. Yes.
 9 Q. And then finally changes to the intranet,
 10 which is your Attachment D, so a little more
 11 substantial?
 12 A. Yes, \$9,400.00.
 13 Q. \$9,434.00. Would you agree with me that in so
 14 far as the net present value numbers for these
 15 first three projects are nominal in nature
 16 that they are, for the net present value
 17 basis, on the line about whether they're
 18 actually going to generate a net present value
 19 for you at the end of five years. I mean, if
 20 your discount rate is a little off, if you
 21 don't obtain the labour savings that you hope
 22 to achieve, and that's pretty much it as far
 23 as the analysis goes for these, and if either
 24 one of those was to be impacted not like you
 25 were hoping, your net present value could

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1 Q. But ultimately that should have a reduction in
 2 the overall labour component of the company,
 3 correct, in order to support your net present
 4 value calculation?
 5 A. Yes, absolutely.
 6 Q. Okay. And Mr. Collins, I just wanted to get
 7 you to just make a quick comment on, sort of
 8 in keeping with, I think, some of what you are
 9 saying is 42.2, RFI. And this related to your
 10 application enhancement's budget and there
 11 were four net present values given for four
 12 different subprojects, contract management,
 13 fixed assets, bank rec and changes to the
 14 intranet and I notice that in the first three
 15 of those, contract management, fixed assets
 16 and bank rec, your net present value
 17 calculation is showing, I guess what I would
 18 suggest to be a fairly nominal figure, if I'm
 19 reading that correctly, in the case of, for
 20 instance, your contract management--oh, I'm
 21 sorry, if we could go to Attachment A, here we
 22 go, in this case, for instance, your contract
 23 management you're showing a total positive net
 24 present value over a five-year span of
 25 \$239.00.

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1 easily go the other way?
 2 A. Sure. I guess, Mr. Kennedy, when we were
 3 responding to the RFI associated with that
 4 attachment, 42.2, the question was asked what
 5 are the primary justifications and with those
 6 three projects in particular, the fixed
 7 assets, the contract management and the bank
 8 reconciliation, we had a difficult time
 9 answering that because the primary--there was
 10 several ways to justify that project. There
 11 was qualitative and quantitative ways, if I
 12 could put it that way. So, you know, we did--
 13 it was primarily, obviously operating
 14 efficiencies and that's why we've responded as
 15 we did. But what else we have going on here
 16 is that we expect these solutions or these
 17 software solutions to last longer than five
 18 years, so the net present value analysis goes
 19 up to five years, but we, you know, we really
 20 believe, you know, that they will last longer
 21 than five years. The other thing that we have
 22 going on is that because of the oversight
 23 that, you know, my group and I bring to the
 24 labour savings that the departments are being
 25 forward that they say they are going to get

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1 MR. COLLINS:
 2 from this, we want to be very conservative in
 3 our estimates. So that's a very conservative
 4 net present value analysis, I guess, Mr.
 5 Kennedy.
 6 Q. Okay, but if you were more aggressive in your
 7 net present value calculation, you would have
 8 been forecasting greater labour savings,
 9 principally?
 10 A. Yes, principally, yes.
 11 Q. And so then that would have effected that
 12 data, for instance that you see on Information
 13 No. 2, the sheet that I just handed out, which
 14 shows what your total labour savings would be
 15 for the company and what that should reflect
 16 in a reduction in FTEs or at the end of the
 17 day, a reduction in the company's overall
 18 labour costs, correct?
 19 A. Yes, yes.
 20 Q. Okay, I just wanted to switch to your personal
 21 computer infrastructure project, Mr. Collins.
 22 And specifically PUB-46.4 and I think
 23 something got lost in the translation between
 24 the question and the answer. The question was
 25 what are the specifications of the PCs and

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1 and we look at our 600 or so PCs, we look at
 2 their age, their performance and that sort of
 3 thing, and you know, what don't do is we don't
 4 go around and look at--and interview every
 5 individual employee and go through every
 6 department, you know, in the May/June
 7 timeframe and say, okay, that person there
 8 will get a new one, you know, eleven months
 9 from now when the new one comes in the door,
 10 because it's very impractical to do that. So
 11 what we do is we'll use some judgment based
 12 on, you know, talking with the managers
 13 responsible for those departments. We'll look
 14 at some of our help desk calls to see what PCs
 15 have been troublesome. We'll look at things
 16 like, you know, how much warranty is left on
 17 the machines, you know, look at how much more
 18 useful life can we get out of these? And then
 19 what we'll do is when the machines come in the
 20 door, and typically, you know, we're saying
 21 113, but we won't buy 113 right away in the
 22 new year, so we'll buy a little bit less than
 23 that because we don't want to over buy. So
 24 we'll buy a little bit less than that and
 25 we'll do the analysis at that point in time

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1 laptop computers currently being used by those
 2 individuals who would receive the replacement
 3 computers to be purchased in 2005? And the
 4 answer was the table below provides a summary
 5 of the specifications to the PCs that have to
 6 be replaced in 2005. And then it goes, the
 7 actual individuals who will receive the
 8 replacement computers to be purchased in 2005
 9 are unlikely to be the same individuals
 10 currently using these units.
 11 A. Right.
 12 Q. Now the units that you list in your table
 13 there, they're the ones, if you will, to put
 14 it in the vernacular, are headed out the door
 15 when the new ones come in, correct?
 16 A. That's correct.
 17 Q. Okay. The question though asked, what are the
 18 specifications of the PCs that are currently
 19 being used by the individuals who are going to
 20 receive the new computers. And would you know
 21 that offhand?
 22 A. No, the way we do that for budgeting purposes,
 23 Mr. Chairman and Commissioners, is we sit down
 24 at around an age and timeframe we're putting
 25 together our budget for the following year,

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1 and make sure that, you know, the person
 2 that's getting that new computer at that time,
 3 is a person that really needs it. Because
 4 what could happen in that period of time
 5 between, I guess May and June timeframe of
 6 2004 and when the PC actually goes on the desk
 7 the following March or April timeframe, is
 8 that person could go from a high capacity
 9 user, someone that really needs a powerful
 10 machine, to somebody that doesn't need a
 11 powerful machine or vice versa. So we want to
 12 make their analysis as close to the purchase
 13 time as possible.
 14 Q. But ultimately what drives your decision about
 15 purchasing new computers? Is it the
 16 requirement of your power users to stay on top
 17 and have the greater functionality out of a
 18 computer or is it lowest tier computers not
 19 cutting the grade and need to be retired?
 20 A. It's more the latter, the lower tier
 21 computers.
 22 Q. Okay. And so insofar as your decision-making
 23 process, it's the specs, if you will, of these
 24 computers shown on the chart that drives more
 25 about your decision making about computers to

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1 MR. KENNEDY:
 2 --how many computers to buy in a given year?
 3 A. Not completely and the reason I say that is
 4 because the chart on the screen shows that
 5 we're going to be retiring 88 Dell OptiPlex GX
 6 110 desktop PCs. But we have 139 of those in
 7 the company, so we're not retiring all of
 8 those because there are still some of those
 9 have useful life remaining, because there's
 10 some of our employees still getting value out
 11 of those. So we don't make the decision and
 12 say the cut off point is a certain class or a
 13 certain speed of PC. It does come down to
 14 some analysis.
 15 Q. So, Mr. Collins, when you buy a new computer,
 16 when the company buys a new computer, do you
 17 typically buy an entire computer, in other
 18 words, the tower, the monitor, the mouse, the
 19 keyboard, everything is bought, or do you just
 20 buy new towers?
 21 A. No, we buy the unit, the whole unit, being the
 22 monitor, the keyboard, the mouse and the CPU,
 23 the tower.
 24 Q. Okay, so I guess question No. 1 then is has
 25 the company explored, just in the case of

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1 Q. Have you ever conducted an analysis of that
 2 issue just to see or support the decision to
 3 replace the whole unit as opposed to just the
 4 tower, for instance?
 5 A. Other than, you know, our technical people
 6 would get together and talk about our options,
 7 Mr. Kennedy, but other than that, there
 8 wouldn't be any report or anything like that
 9 that we would have done.
 10 Q. And similar to that, what about, like for
 11 instance in the case of the Dell OptiPlexers,
 12 would an upgrade of the ram that's there for
 13 the computer address the obsolescence issue
 14 with that computer and allow you to defer
 15 buying an entirely new computer for a year or
 16 two years?
 17 A. When you look at what it would cost to
 18 actually go out and crack the covers open, I
 19 guess, so to speak of the 88 machines that are
 20 out there, that would be a significant
 21 operating cost to go out and take a PC off
 22 someone's desk for, you know, the couple of
 23 hours that it would take to put more memory
 24 and that sort of thing, that's one side of it.
 25 It would cost a lot of money to do that

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1 needing to, if it needs to upgrade its
 2 computers, just buying new towers instead of
 3 buying the entire--presumably you already have
 4 a monitor, you already have a mouse and
 5 keyboard that you could just replace the
 6 tower, couldn't you?
 7 A. I guess technically you can, you can just
 8 replace the tower, but you know, we feel it's
 9 not the least cost way of managing our 600
 10 personal computers. If what you have there is
 11 a computer monitor that's essentially been on,
 12 in many cases, 24 hours a day, 7 days a week,
 13 for 365 days a year. Unfortunately a lot of
 14 people, you know, don't turn off their PCs.
 15 They just let them, you know, I guess go into
 16 standby mode or what have you, but we feel
 17 that, you know, we're managing the life cycle
 18 of the whole unit and replacing the whole
 19 unit. And what we find from our suppliers as
 20 well when we go out to tender for these things
 21 is that they package it such that they make it
 22 inviting for you, from a cost perspective, to
 23 buy the whole kit together, so to speak, so
 24 the mouse, the keyboard and that sort of
 25 thing.

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1 because also the employee doesn't have a PC
 2 for that period of time that you've got the
 3 cover open. And, you know, my experience with
 4 computers in general, I guess, because I've
 5 been around them for close to twenty years, is
 6 that you don't want to be cracking the covers
 7 open on these things. You could void
 8 warranties, number one, and you don't want to
 9 be getting in there and jarring something
 10 loose, you know. The best thing that could
 11 happen to a PC is that when it goes on a desk,
 12 you know, it stays in that position, that's
 13 just the nature of that equipment.
 14 Q. I was kind of curious, though, Mr. Collins,
 15 most computers that you buy have additional
 16 memory slots built right into them, don't
 17 they, with the plan for your--with the ability
 18 then for you to be able to upgrade the ram, to
 19 void obsolescence?
 20 A. I don't -
 21 Q. You don't break any warranties by opening up a
 22 tower and installing additional ram.
 23 A. Well, if our employees open up the tower, if
 24 we're not certified to do that, we would void
 25 our warranty and our service agreement, I

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1 MR. COLLINS:
 2 guess, with the company. So on the issue of
 3 are there memory slots available? I can't
 4 make that assumption because when we spec
 5 these machines for purchase, we want to make
 6 sure that we're going to get as long a life
 7 out of these things as possible without all of
 8 that cracking the case open, that sort of
 9 thing. So we'll put enough memory in there
 10 that we're sure that five years from now, or
 11 longer, it will have sufficient memory and
 12 disc space for what we need.
 13 Q. Your policy of cascading your computers, has
 14 the company examined or conducted any analysis
 15 of the cost difference between a cascade
 16 policy and a policy that would involve spot
 17 replacements of computers, and do you know
 18 what I mean by "spot replacements"?
 19 A. I'm not quite sure what you mean there.
 20 Q. Well your cascade process is, I understand
 21 it's almost a moving down from tier to tier,
 22 so that if you've got 100 new computers being
 23 purchased in 2005, virtually almost everyone
 24 in the company gets a new computer or is it
 25 only spot -

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1 Q. Nothing Mr. Chair.
 2 CHAIRMAN:
 3 Q. Commissioner Vincent?
 4 COMMISSIONER VINCENT:
 5 Q. Yes, I just have one question relative to, I
 6 guess, have you ever considered leasing
 7 computers verses purchasing and really dumping
 8 them out the back end after a period of time?
 9 Have you looked at that?
 10 A. When we look at that, what we find is that the
 11 suppliers, like Compaq or HP, I guess, IBM,
 12 they want you to get rid of them after three
 13 years--even four years, I think they have
 14 actually gone to four years now, but for us,
 15 you know, they last longer than that period of
 16 time. So, you know, there's no--I don't see
 17 any benefit--and we haven't seen any benefit
 18 in really just doing a complete Evergreen,
 19 it's called actually, a complete Evergreen of
 20 getting rid of all of your computers after
 21 three or four years. I think the whole
 22 cascading approach that we do in that regard
 23 is the least cost way. And before we'll be
 24 buying, you know, a bunch of computers, we'll
 25 make sure and we'll talk to the finance

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1 A. Well, those 100 computers that we would buy in
 2 2005, they will go to people that we've
 3 identified need that extra processing
 4 capability that would come with a new
 5 computer.
 6 Q. Okay, so you don't have a shuffling down
 7 between all the different tiers of your
 8 company of everyone gets bumped off the
 9 computer they have and they get the next hand-
 10 me-down from the person above them?
 11 A. No, I don't think that would be cost effective
 12 either. There's a balancing act that goes on,
 13 you don't want, you know, if you're buying a
 14 computer, you don't want to be interrupting
 15 the same employee year after year, that sort
 16 of thing. You want to create some stability
 17 in their environment so that they are getting-
 18 -they're being efficient in using that
 19 computer, rather than replacing it every year.
 20 Q. That's all the questions I have for Mr.
 21 Collins, Chair. Thank you. Thank you, Mr.
 22 Collins.
 23 CHAIRMAN:
 24 Q. Mr. Alteen? No?
 25 MR. ALTEEN:

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1 department and understand, I guess, the issues
 2 around what if, you know, we lease them this
 3 year verses, you know, pay for them and what
 4 are the issues there, so -
 5 Q. You've considered it, yeah, okay. Thank you.
 6 A. We've considered it, yeah. Okay.
 7 CHAIRMAN:
 8 Q. I have no questions either. Thank you, Mr.
 9 Collins. Now then, Mr. Alteen, where are we?
 10 MR. ALTEEN:
 11 Q. I am ready to call my next witness, Mr.
 12 Chairman and hopefully we'll be finished in, I
 13 would expect all the evidence within the hour,
 14 a short break and we can go to argument. I
 15 think my learned friend and I can get this
 16 argued in a very expeditious manner this
 17 evening. We might be here until 5:30 or 5:45
 18 though, if it pleases the Board.
 19 CHAIRMAN:
 20 Q. That presents a problem. I wasn't aware that
 21 this morning it would present a problem, but
 22 it presents a problem to us now because I
 23 understand one of the Commissioners has a
 24 problem with going beyond 4:30 and that's, I
 25 guess, leaving now that we can go one of two

1 ways: we can sit until 4:30 and hear your
 2 witness and get as far as we can by that time,
 3 or we can break now and come back in the
 4 morning at 9:30.
 5 MR. ALTEEN:
 6 Q. I'm at the pleasure of the Board, Mr. Chairman
 7 and I'm ready to go now. It might take a
 8 little longer to seat the witness and get to
 9 it, it's a bit dense talking about pensions,
 10 so it may take a half hour to get through it
 11 and we regret the subject matter, but there's
 12 not much you can do with it.
 13 CHAIRMAN:
 14 Q. Probably better to start it fresh in the
 15 morning.
 16 MR. ALTEEN:
 17 Q. Then we're at your pleasure on that, Mr.
 18 Chairman.
 19 CHAIRMAN:
 20 Q. Well that's what we will do. So we'll break
 21 and come back at 9:30 in the morning.
 22 MR. ALTEEN:
 23 Q. Thank you.
 24 Upon conclusion at 4:00 p.m.

1 CERTIFICATE
 2 I, Judy Moss Lauzon, hereby certify that the foregoing is
 3 a true and correct transcript of a hearing into
 4 Newfoundland Power's 2005 Capital Budget Application,
 5 heard on the 20th day of September, A.D., 2004 at the
 6 Public Utilities Board, Prince Charles Building, St.
 7 John's, Newfoundland and Labrador and was transcribed by
 8 me to the best of my ability by means of a sound
 9 apparatus.
 10 Dated at St. John's, Newfoundland and Labrador
 11 this 20th day of September, A.D., 2004
 12 Judy Moss Lauzon