Q.	Re: p	o. B-7 Perform Feasibility Study- Wind Request for Proposals (\$200,000)
	1.1	What is the deadline for receipt of proposals? Have any expressions
		of interest been received to date? What is the current status of this
		project?
A.	1.1	The deadline for the receipt of proposals to Hydro's Request for
		Proposals (RFP) for a Wind Demonstration Project was January 31,
		2001. Hydro received 10 submissions to its RFP. Currently a feasibility
		study is underway by the successful proponent, The NeWind Group,
		which is scheduled to be completed by June 2002.
		1.1

15.1 What will be the number of running hours on each of these compressors at the time of replacement? What are the sizes of the compressors?  15.2 Provide a breakdown of the costs involved in replacing these compressors.  15.1 At the time of replacement, the estimated number of running hours each compressor will be approximately 21,000 hours.  12 The compressors are capable of delivering 14.5 LPS (30.8 CFM) at 6895 kPa (1000 psi).  15 15.2 Specific costs budgeted for purchasing and installing the compressor are as follows:  18 Material Supply \$36,0 Labour 12,0 Engineering 1,5 Project Management 1,5 Inspection & Commissioning 1,5 Corporate O/H, IDC, Esc., Contingency 12,9	1 2	Q.	RE: p	. B-23 Replace Two Air Compressors - Buchans (\$65,000)	)
15.2 Provide a breakdown of the costs involved in replacing these compressors.  A. 15.1 At the time of replacement, the estimated number of running hours each compressor will be approximately 21,000 hours.  The compressors are capable of delivering 14.5 LPS (30.8 CFM) at 6895 kPa (1000 psi).  Specific costs budgeted for purchasing and installing the compressor are as follows:  Material Supply \$36,0 Labour 12,0 Engineering 1,5 Project Management 1,5 Inspection & Commissioning 1,5 Corporate O/H, IDC, Esc., Contingency 12,9	3		15.1	·	
15.2 Provide a breakdown of the costs involved in replacing these compressors.  A. 15.1 At the time of replacement, the estimated number of running hours each compressor will be approximately 21,000 hours.  The compressors are capable of delivering 14.5 LPS (30.8 CFM) at 6895 kPa (1000 psi).  Specific costs budgeted for purchasing and installing the compressor are as follows:  Material Supply \$36,0 Labour 12,0 Engineering 1,5 Project Management 1,5 Inspection & Commissioning 1,5 Corporate O/H, IDC, Esc., Contingency 12,9	5			compressors?	
compressors.  A. 15.1 At the time of replacement, the estimated number of running hours each compressor will be approximately 21,000 hours.  The compressors are capable of delivering 14.5 LPS (30.8 CFM) at 6895 kPa (1000 psi).  Specific costs budgeted for purchasing and installing the compressor are as follows:  Material Supply \$36,0 Labour 12,0 Labour 12,0 Project Management 1,5 Inspection & Commissioning 1,5 Corporate O/H, IDC, Esc., Contingency 12,9	6				
9 10 A. 15.1 At the time of replacement, the estimated number of running hours each compressor will be approximately 21,000 hours.  12 13 The compressors are capable of delivering 14.5 LPS (30.8 CFM) at 6895 kPa (1000 psi).  15 16 15.2 Specific costs budgeted for purchasing and installing the compressor are as follows:  18 19 Material Supply \$36,0 20 Labour 12,0 21 Engineering 1,5 22 Project Management 1,5 23 Inspection & Commissioning 1,5 24 Corporate O/H, IDC, Esc., Contingency 12,9	7		15.2	Provide a breakdown of the costs involved in replacing th	ese
each compressor will be approximately 21,000 hours.  The compressors are capable of delivering 14.5 LPS (30.8 CFM) at 6895 kPa (1000 psi).  Specific costs budgeted for purchasing and installing the compressor are as follows:  Material Supply \$36,0 Labour 12,0 Labour 12,0 Engineering 1,5 Project Management 1,5 Inspection & Commissioning 1,5 Corporate O/H, IDC, Esc., Contingency 12,9				compressors.	
The compressors are capable of delivering 14.5 LPS (30.8 CFM) at 6895 kPa (1000 psi).  15  16  15.2 Specific costs budgeted for purchasing and installing the compressor are as follows:  18  19  Material Supply \$36,0 20  Labour 12,0 21  Engineering 1,5 22  Project Management 1,5 23  Inspection & Commissioning 1,5 24  Corporate O/H, IDC, Esc., Contingency 12,9	10	A.	15.1	At the time of replacement, the estimated number of runr	ning hours on
The compressors are capable of delivering 14.5 LPS (30.8 CFM) at 6895 kPa (1000 psi).  15  16  15.2 Specific costs budgeted for purchasing and installing the compressor are as follows:  18  19  Material Supply \$36,0 20  Labour 12,0 21  Engineering 1,5 22  Project Management 1,5 23  Inspection & Commissioning 1,5 24  Corporate O/H, IDC, Esc., Contingency 12,9	11			each compressor will be approximately 21,000 hours.	
14 6895 kPa (1000 psi).  15 15.2 Specific costs budgeted for purchasing and installing the compressor are as follows:  18 19 Material Supply \$36,0 20 Labour 12,0 21 Engineering 1,5 22 Project Management 1,5 23 Inspection & Commissioning 1,5 24 Corporate O/H, IDC, Esc., Contingency 12,9	12				
15 16 15.2 Specific costs budgeted for purchasing and installing the compressor are as follows: 18 19 Material Supply \$36,0 20 Labour 12,0 21 Engineering 1,5 22 Project Management 1,5 10 11 12 12 13 13 14 15 15 16 17 18 18 19 18 19 18 19 19 18 19 19 19 19 19 19 19 19 19 19 19 19 19	13			The compressors are capable of delivering 14.5 LPS (30	.8 CFM) at
15.2 Specific costs budgeted for purchasing and installing the compressor are as follows:  18 19 Material Supply \$36,0 20 Labour 12,0 21 Engineering 1,5 22 Project Management 1,5 23 Inspection & Commissioning 1,5 24 Corporate O/H, IDC, Esc., Contingency 12,9	14			6895 kPa (1000 psi).	
17 are as follows:  18  19 Material Supply \$36,0  20 Labour 12,0  21 Engineering 1,5  22 Project Management 1,5  23 Inspection & Commissioning 1,5  24 Corporate O/H, IDC, Esc., Contingency 12,9	15				
18         19       Material Supply       \$36,0         20       Labour       12,0         21       Engineering       1,5         22       Project Management       1,5         23       Inspection & Commissioning       1,5         24       Corporate O/H, IDC, Esc., Contingency       12,9	16		15.2	Specific costs budgeted for purchasing and installing the	compressors
19 Material Supply \$36,0 20 Labour 12,0 21 Engineering 1,5 22 Project Management 1,5 23 Inspection & Commissioning 1,5 24 Corporate O/H, IDC, Esc., Contingency 12,9	17			are as follows:	
Labour 12,0 Engineering 1,5 Project Management 1,5 Inspection & Commissioning 1,5 Corporate O/H, IDC, Esc., Contingency 12,9	18				
Engineering 1,5 Project Management 1,5 Inspection & Commissioning 1,5 Corporate O/H, IDC, Esc., Contingency 12,9	19			Material Supply	\$36,000
Project Management 1,5 Inspection & Commissioning 1,5 Corporate O/H, IDC, Esc., Contingency 12,9	20			Labour	12,000
23 Inspection & Commissioning 1,5 24 Corporate O/H, IDC, Esc., Contingency 12,9	21			Engineering	1,500
24 Corporate O/H, IDC, Esc., Contingency 12,9	22			Project Management	1,500
• • • • • • • • • • • • • • • • • • • •	23			Inspection & Commissioning	1,500
	24			Corporate O/H, IDC, Esc., Contingency	12,900
25 Total \$65,4	25			Total	\$65,400

1	Q.	RE: p	RE: p. B-29 Replacement of Insulators – TL 211 (230 kV Massey Drive –		
2		Botto	m Brook)		
3					
4		21.1	What is the total purchase price of the 6700 insulator	rs being	
5			replaced? What is the labour cost? What other cost	s are involved?	
6					
7	A.	21.1	Specific costs budgeted for purchasing and installing	the replacement	
8			insulators are as follows:		
9					
10			Material Supply	\$220,000	
11			Labour	130,000	
12			Engineering	32,000	
13			Project Management/Environment	62,000	
14			Inspection & Commissioning	12,000	
15			Corporate O/H, IDC, Esc., Contingency	<u>113,700</u>	
16			Total	\$569,700	

1	Q.	RE: p	b. B-30 Replacement of Insulators – TL 228 (230 kV E	Buchans – Massey
2		Drive)	(\$450,000)	
3				
4		22.1	What is the total purchase price of the 3700 insulato	rs being
5			replaced? What is the labour cost? What other cos	ts are involved?
6				
7	A.	22.1	Specific costs budgeted for purchasing and installing	the replacement
8			insulators are as follows:	
9				
10			Material Supply	\$160,000
11			Labour	120,000
12			Engineering	30,000
13			Project Management/Environment	46,000
14			Inspection & Commissioning	8,000
15			Corporate O/H, IDC, Esc., Contingency	<u>86,100</u>
16			Total	\$450,100

Q. RE: p.B-35 Provide Service Extensions – Central, Northern and Labrador
 (\$981,000)

3

26.1 What were the variances, by region, in the estimates and the actual expenditures for the provision of service extensions for 2000?

6 7

5

26.2 Using actual figures to June 30, 2001, what are the projected variances, by region, for the provision of service extension for 2001?

9

8

10 A. 26.1 The variance in budget and actual for the provision of service extensions for 2000 is given in the following table:

12

	Budget	Actual	Variance
Central	\$380,000	\$399,000	\$19,000
Northern	\$323,000	\$381,000	\$58,000
Labrador	\$311,000	\$582,000	\$271,000
Total	\$1,014,000	\$1,362,000	\$348,000

1314

26.2 The projected variance in budget and actual for the provision service extensions for 2001 is given in the following table:

	Budget	Actual to June 30/01	Forecast	Variance
Central	\$390,000	\$278,000	\$500,000	\$110,000
Northern	\$320,000	\$189,000	\$320,000	1
Labrador	\$317,000	\$60,000	\$317,000	
Total	\$1,027,000	\$527,000	\$1,137,000	\$110,000

1 Q. RE: p.B-36 Upgrade Distribution Systems – Central, Northern and Labrador (\$1,330,000)

27.1 What were the variances, by region, in the estimates and the actual expenditures for the upgrading of distribution systems for 2000?

27.2 Using actual figures to June 30, 2001, what are the projected variances, by region, for the upgrading of distribution systems for 2001?

11 A. 27.1 The variance in budget and actual for the upgrading of distribution systems for 2000 is shown in the following table:

	Budget	Actual	Variance
Central	\$530,000	\$583,000	\$53,000
Northern	\$602,000	\$754,000	\$152,000
Labrador	\$159,000	\$416,000	\$257,000
Total	\$1,291,000	\$1,753,000	\$462,000

27.2	The projected variance in budget and actual expenditure for the
	provision of upgrading of distribution systems for 2001 is shown in the
	following table:

	Budget	Actual to June	Forecast	Variance
		30/01		
Central	\$541,000	\$108,000	\$461,000	(80,000)
Northern	\$602,000	\$106,000	\$602,000	
Labrador	\$162,000	\$9,000	\$162,000	
Total	\$1,305,000	\$223,000	\$1,225,000	(80,000)

1 Q. RE. p. B-41 Purchase and Install Voltage Regulators – Barachoix (\$112,000)

2

30.1 Over what period of time has the peak load level on the feeder resulted in low voltage levels? How have these problems been reflected in the reliability figures for the Barachoix area?

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The problem of low/imbalanced voltages on the feeder was identified 30.1 during system load flow simulations conducted in 2000. The simulations indicate that primary voltage levels decrease to approximately 110v, on a 120v base, at the source side of the existing regulator bank on certain phases during peak and that load rebalancing will not alleviate the problem. (Normal planning criteria specifies that primary voltage magnitudes be at least 116v.) Four customers are located within 1 km of this location. Past recloser and regulator field data indicates that these problems have existed in varying degrees since 1995. The data shows that the existing regulator bank has in the past, operated to its design limit when boosting feeder voltages, thereby preventing it from providing the additional regulation required. The regulator bank's performance, and the accompanying low voltages, were confirmed during subsequent simulations based on past peak load readings. Low voltages are not a component used when calculating reliability figures.

Q. 1 RE: p. B-42 Replace Transformers – Burlington Substation (\$149,000) 2 3 31.1 Why is there an increase in transformer capacity at this time? What 4 information does the company have that indicates load growth in the 5 near future? 6 7 8 A. 31.1 There is a need to increase the capacity of these transformers to 9 offset the potential for failure. Units in this bank are overloaded, and 10 have been periodically overloaded by 120% - 140% since 1995. The 11 accumulative loss of insulating life resulting from the overheating 12 associated with overload, will lead to failure. Hydro has no specific 13 load forecast data for the section of line serviced by these 14 transformers, however, loads in this general area are not expected to 15 increase appreciably over the near future.

## Page 1 of 1

Q. RE: p.B-53 Replace 300 kW Diesel Unit No. 288 – Black Tickle (Previous
 \$11,000; \$318,000)

3

36.1 To June 30, 2001, what units are in use at Black Tickle? What are their ages, sizes, operating hours and scheduled replacement dates?

6

5

7 A. 36.1 To June 30, 2001 the following is the information on the units in Black Tickle.

9

10

#### Engine Data for Black Tickle

	_ 0.10 0 .			
Unit	kW	Purchase	Total	Replacement Date
No.		Date	Hours	
287	300	1978	83,787	To be reviewed in 2002 as
				part of 5 year capital plan
288	300	1978	86,132	2002
289	250	1978	79,195	To be reviewed in 2002 as
				part of 5 year capital plan

## Page 1 of 1

Q. RE: p.B-54 Replace 250 kW Diesel Unit No. 293 – Rigolet (Previous \$11,000; \$301,000)

3

37.1 To June 30, 2001, what units are in use at Rigolet? What are their ages, sizes, operating hours and scheduled replacement dates?

6

5

7 A. 37.1 To June 30, 2001 the following is the information on the units in Rigolet.

9

10

Engine data for Rigolet

				•
Unit	KW	Purchase	Total	Replacement Date
No.		Date	Hours	
223	250	1978	77,694	To be reviewed in 2002 as
				part of 5 year capital plan
2049	122	1998	4820	Unscheduled
293	250	1974	90,374	2002
2051	545	1998	14,993	Unscheduled

1	Q.	RE: p	. B-55 Upgrade – Fuel Storage - Nain (\$339,000)
2			
3		38.1	Has a report been prepared on the condition of fuel storage in Nain,
4			and its inability to meet current Storage and Handling of Gasoline and
5			Associated Products? If so, provide a copy.
6			
7	A.	38.1	There was no report prepared but there was an engineering review
8			completed. The review revealed that the dyke liner does not extend
9			underneath the three 144,000 liter capacity vertical storage tanks.
10			Also, probable deficiencies in the fuel storage system secondary
11			containment as evidenced by bulges in the dyke liner, apparent water
12			seepage into the dyke and loose connections between the dyke liner
13			and the tanks were noted.
14			
15			These tanks were installed in 1974 prior to implementation of the
16			Gasoline and Associated Products Regulations in 1982.

1	Q.	RE:	p.B-56 Purchase and Install Fire Alarm System – Black Tickle (\$50,000)
2			
3		39.1	Is there currently a fire alarm system at the Black Tickle generating
4			plant?
5			
6		39.2	Are there currently in the Hydro system any plants at which there are
7			no fire alarm systems in place? What plans does the company have
8			for dealing with any such plants?
9			
10	A.	39.1	There is no fire alarm system in the Black Tickle plant at present.
11			
12		39.2	Besides Black Tickle, there are nine other isolated diesel plants which
13			do not have fire alarm systems. Hydro plans to install fire alarm
14			systems in these locations over the next five years.

1	Q.	RE:	p. B-59 Purchase Meters and Equipment – TRO System (\$172,000)
2			
3		40.1	What were the actual expenditures for meters and equipment for
4			2000?
5			
6		40.1	As of June 30, 2001, what are the projected expenditures for 2001?
7			
8	A.	40.1	The actual expenditures for meters and equipment for 2000 totaled
9			approximately \$38,000.
10			
11		40.1	As of June 30, 2001, the projected expenditures for meters and
12			equipment for 2001 is estimated at \$139,000.

Q. RE: p. B-72 Install Interactive Voice Response System - Hydro Place 1 2 (\$171,000) 3 4 50.1 Provide details of how this project will improve customer service. How 5 can this project be related to the "Key Findings" of the 1999 Customer 6 Satisfaction Survey? 7 8 Α. 50.1 Interactive Voice Response (IVR) is a tool which can be used to 9 permit customers, who so desire, to access account balances, 10 frequently asked questions, outage information, etc. and, in the 11 process, free existing staff for the delivery of other customer service 12 functions. The key findings of the 1999 Customer Satisfaction Survey 13 does not address this system in particular but in an effort to improve 14 productivity Hydro will be investigating this system and any others it 15 might identify in an effort to improve its delivery of Customer Services.

1	Q.	RE: R	RJH p. 3
2			
3		52.1	Has the increased annual energy capacity on the Island Interconnect
4			(sic.) System resulted in additional capital expenditures for expansion
5			or upgrade of transmission lines or terminal stations? If so, please
6			provide details.
7			
8	A.	52.1	The increased annual energy capability and increased net capacity
9			referenced in lines 7 to 18 of page 3 of R. J. Henderson's evidence did
10			not require additional capital expenditures for expansion or upgrade of
11			transmission lines or terminal stations.
12			
13			The increase in capacity referenced in lines 20 to 22 of page 3 was as
14			a result of capital expenditures to interconnect the Roddickton and St.
15			Anthony system loads.

Q. **RE: HGB 5:** 

54.1 In addition to Government of Newfoundland and Labrador economic forecasts, what other sources of information and economic forecasts are available to Hydro for inclusion in its econometric model and to what extent if any is this information used?

Α.

54.1 Hydro contracts with the Department of Finance for the provision of Provincial economic forecast services and this forms the primary input for the long-term load forecast process. Hydro could contract for additional economic forecast services, but for budgetary reasons, and due consideration of local analytical capabilities, Hydro is satisfied with its present arrangements. Notwithstanding, Hydro notes short term views of the economy as offered by various financial institutions from time to time, monitors information from the Atlantic Provinces Economic Council, and occasionally purchases, for a nominal fee, Provincial economic forecast summaries that may be available from such organizations as The Conference Board of Canada. This information is used in a general sense, helping to ensure that a reasonable set of assumptions continually form the basis for the work undertaken by the Department of Finance on Hydro's behalf.

1	Q.	RE:	Revenue requirement
2			
3		56.1	Provide details of all adjustments to revenue requirement related to
4			non-regulatory costs, the effect of export sales by Hydro to Hydro-
5			Quebec and Hydro's investment in subsidiary companies. (JCR, pg. 1,
6			line 26 to pg. 2, line 2)
7			
8		56.2	Does Hydro allocate any administrative costs, including any portion of
9			Executive salaries, to the non-regulated export sales to Hydro-
10			Quebec?
11			
12			
13	A.	56.1	The details of all adjustments are contained in the attached
14			reconciliation of net operating income to revenue requirement.
15			
16		56.2	The administrative effort associated with the non-regulated export
17			sales to Hydro-Quebec is not considered significant enough to warrant
18			separate tracking.

Financial Revenue   Increase   Statement   Revenue   Increase   Increase		(\$ 000)		2222	
Line No.         Description         Statement Requirement (Decrease)           1         Depreciation & amortization         31,790         31,790         0           2         Fuel         100,585         100,585         0           3         Bunker "C"         100,585         100,585         0           4         Additives & Indirects         185         185         0           5         Environmental fee         102         102         0           6         Ignition         112         112         0           7         Gas Turbines         471         471         0           8         Diesel         6,323         6,323         0           9         Other         (25,490)         (25,490)         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         18,900         15,266         (3,634)           13         Other Costs         19,939         1,939         0           15				2002	
1         Depreciation & amortization         31,790         31,790         0           2         Fuel         100,585         100,585         0           4         Additives & Indirects         185         0           5         Environmental fee         102         102         0           6         Ignition         112         112         0           7         Gas Turbines         471         471         0           8         Diesel         6,323         6,323         0           9         Other         0         0         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         82,288         82,288         0           14         Salaries         56,051         56,051         56,051         0           15         SEM         16,778         16,763         (15)         0           15         SEM         16,778         16,763         (15)         0					
2         Fuel           3         Bunker "C"         100,585         100,585         0           4         Additives & Indirects         185         185         0           5         Environmental fee         102         102         0           6         Ignition         112         112         0           7         Gas Turbines         471         471         0           8         Diesel         6,323         6,323         0           9         Other         0         0         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         82,288         82,288         0           14         Salaries         56,051         56,051         0           15         SEM         16,778         16,763         (15)	Line No.	Description	Statement	Requirement	(Decrease)
3         Bunker "C"         100,585         100,585         0           4         Additives & Indirects         185         185         0           5         Environmental fee         102         102         0           6         Ignition         112         112         0           7         Gas Turbines         471         471         0           8         Diesel         6,323         6,323         0           9         Other         0         0         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         4         82,288         82,288         0           14         Salaries         56,051         56,051         0         0           15         SEM         16,778         16,763         (15)         0           16         Office Supplies         1,939         1,939         1,939         0           17         Professional Services         4,340         4,340	1	Depreciation & amortization	31,790	31,790	0
3         Bunker "C"         100,585         100,585         0           4         Additives & Indirects         185         185         0           5         Environmental fee         102         102         0           6         Ignition         112         112         0           7         Gas Turbines         471         471         0           8         Diesel         6,323         6,323         0           9         Other         0         0         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         4         82,288         82,288         0           14         Salaries         56,051         56,051         0         0           15         SEM         16,778         16,763         (15)         0           16         Office Supplies         1,939         1,939         1,939         0           17         Professional Services         4,340         4,340	2	Fuel			
5         Environmental fee         102         102         0           6         Ignition         112         112         0           7         Gas Turbines         4771         471         0           8         Diesel         6,323         6,323         0           9         Other         0         0         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         18,900         15,266         (3,634)           14         Salaries         56,051         56,051         0           15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17		Bunker "C"	100,585	100,585	0
5         Environmental fee         102         102         0           6         Ignition         112         112         0           7         Gas Turbines         4771         471         0           8         Diesel         6,323         6,323         0           9         Other         0         0         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         18,900         15,266         (3,634)           14         Salaries         56,051         56,051         0           15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17		Additives & Indirects			
6         Ignition         112         112         0           7         Gas Turbines         471         471         0           8         Diesel         6,323         6,323         0           9         Other         0         0         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         56,051         56,051         0           14         Salaries         56,051         56,051         0           15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous	5	Environmental fee	102	102	0
7         Gas Turbines         471         471         0           8         Diesel         6,323         6,323         0           9         Other         0         0         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         18,900         15,266         (3,634)           13         Other Costs         56,051         56,051         0           15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         B	6	Ignition	112	112	0
8         Diesel         6,323         6,323         0           9         Other         0         0         0           10         RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         36,051         56,051         0           14         Salaries         56,051         56,051         0           15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         Building Rentals and Maintenance         626         626         0           23		•	471	471	0
9         Other RSP         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs         34         34         34           14         Salaries         56,051         56,051         0           15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         Building Rentals and Maintenance         626         626         0           23         Transportation         1,923         1,923         0           24         Customer Costs         325         0         (325) <tr< td=""><td></td><td></td><td>6,323</td><td>6,323</td><td></td></tr<>			6,323	6,323	
10         RSP Total Fuels         (25,490)         (25,490)         0           11         Total Fuels         82,288         82,288         0           12         Power Purchased         18,900         15,266         (3,634)           13         Other Costs             14         Salaries         56,051         56,051         0           15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         84         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         Building Rentals and Maintenance         626         626         0           23         Transportation         1,923         1,923         0           24         Customer Costs         325         0         (325) <td></td> <td></td> <td>,</td> <td></td> <td></td>			,		
Total Fuels   82,288   82,288   0			(25.490)	(25.490)	
13         Other Costs           14         Salaries         56,051         56,051         0           15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         Building Rentals and Maintenance         626         626         0           23         Transportation         1,923         1,923         0           24         Customer Costs         325         0         (325)           25         Loss (gain) on Disposal of Assets         791         791         0           26         sub-total         91,821         91,672         (149)           27         Cost Recoveries         (1,910)         (1,910)         0           28         CF(L)Co					
14         Salaries         56,051         56,051         0           15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         Building Rentals and Maintenance         626         626         0           23         Transportation         1,923         1,923         0           24         Customer Costs         325         0         (325)           25         Loss (gain) on Disposal of Assets         791         791         0           26         sub-total         91,821         91,672         (149)           27         Cost Recoveries         (1,910)         (1,910)         0           28         CF(L)Co         (1,910)         (1,910)         0	12	Power Purchased	18,900	15,266	(3,634)
15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         Building Rentals and Maintenance         626         626         0           23         Transportation         1,923         1,923         0           24         Customer Costs         325         0         (325)           25         Loss (gain) on Disposal of Assets         791         791         0           26         sub-total         91,821         91,672         (149)           27         Cost Recoveries         0         0         0           28         CF(L)Co         (1,910)         (1,910)         0           30         sub-total         (1,910)         (1,910)         0 <td>13</td> <td>Other Costs</td> <td></td> <td></td> <td></td>	13	Other Costs			
15         SEM         16,778         16,763         (15)           16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         Building Rentals and Maintenance         626         626         0           23         Transportation         1,923         1,923         0           24         Customer Costs         325         0         (325)           25         Loss (gain) on Disposal of Assets         791         791         0           26         sub-total         91,821         91,672         (149)           27         Cost Recoveries         0         0         0           28         CF(L)Co         (1,910)         (1,910)         0           30         sub-total         (1,910)         (1,910)         0 <td>14</td> <td>Salaries</td> <td>56,051</td> <td>56,051</td> <td>0</td>	14	Salaries	56,051	56,051	0
16         Office Supplies         1,939         1,939         0           17         Professional Services         4,340         4,340         0           18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         Building Rentals and Maintenance         626         626         0           23         Transportation         1,923         1,923         0           24         Customer Costs         325         0         (325)           25         Loss (gain) on Disposal of Assets         791         791         0           26         sub-total         91,821         91,672         (149)           27         Cost Recoveries         (1,910)         (1,910)         0           28         CF(L)Co         (1,910)         (1,910)         0           30         sub-total         (1,910)         (1,910)         0           31         Total Other Costs         89,911         89,762	15	SEM			(15)
17       Professional Services       4,340       4,340       0         18       Insurance       848       848       0         19       Equipment Rentals       1,558       1,558       0         20       Travel       2,375       2,375       0         21       Miscellaneous       4,267       4,458       191         22       Building Rentals and Maintenance       626       626       0         23       Transportation       1,923       1,923       0         24       Customer Costs       325       0       (325)         25       Loss (gain) on Disposal of Assets       791       791       0         26       sub-total       91,821       91,672       (149)         27       Cost Recoveries       (1,910)       (1,910)       0         28       CF(L)Co       (1,910)       (1,910)       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871) <td>16</td> <td>Office Supplies</td> <td>1,939</td> <td></td> <td>, ,</td>	16	Office Supplies	1,939		, ,
18         Insurance         848         848         0           19         Equipment Rentals         1,558         1,558         0           20         Travel         2,375         2,375         0           21         Miscellaneous         4,267         4,458         191           22         Building Rentals and Maintenance         626         626         0           23         Transportation         1,923         1,923         0           24         Customer Costs         325         0         (325)           25         Loss (gain) on Disposal of Assets         791         791         0           26         sub-total         91,821         91,672         (149)           27         Cost Recoveries         (1,910)         (1,910)         0           28         CF(L)Co         (1,910)         (1,910)         0           30         sub-total         (1,910)         (1,910)         0           31         Total Other Costs         89,911         89,762         (149)           32         Interest         92,784         93,584         800           33         Margin         36,481         9,610         (26,8	17				
19       Equipment Rentals       1,558       1,558       0         20       Travel       2,375       2,375       0         21       Miscellaneous       4,267       4,458       191         22       Building Rentals and Maintenance       626       626       0         23       Transportation       1,923       1,923       0         24       Customer Costs       325       0       (325)         25       Loss (gain) on Disposal of Assets       791       791       0         26       sub-total       91,821       91,672       (149)         27       Cost Recoveries       (1,910)       (1,910)       0         28       CF(L)Co       (1,910)       (1,910)       0         29       External       0       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)	18	Insurance			
20       Travel       2,375       2,375       0         21       Miscellaneous       4,267       4,458       191         22       Building Rentals and Maintenance       626       626       0         23       Transportation       1,923       1,923       0         24       Customer Costs       325       0       (325)         25       Loss (gain) on Disposal of Assets       791       791       0         26       sub-total       91,821       91,672       (149)         27       Cost Recoveries       (1,910)       (1,910)       0         28       CF(L)Co       (1,910)       (1,910)       0         29       External       0       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)			1,558	1,558	
21       Miscellaneous       4,267       4,458       191         22       Building Rentals and Maintenance       626       626       0         23       Transportation       1,923       1,923       0         24       Customer Costs       325       0       (325)         25       Loss (gain) on Disposal of Assets       791       791       0         26       sub-total       91,821       91,672       (149)         27       Cost Recoveries       (1,910)       (1,910)       0         28       CF(L)Co       (1,910)       (1,910)       0         30       External       0       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)					
22       Building Rentals and Maintenance       626       626       0         23       Transportation       1,923       1,923       0         24       Customer Costs       325       0       (325)         25       Loss (gain) on Disposal of Assets       791       791       0         26       sub-total       91,821       91,672       (149)         27       Cost Recoveries       (1,910)       (1,910)       0         28       CF(L)Co       (1,910)       (1,910)       0         29       External       0       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)					
23       Transportation       1,923       1,923       0         24       Customer Costs       325       0       (325)         25       Loss (gain) on Disposal of Assets       791       791       0         26       sub-total       91,821       91,672       (149)         27       Cost Recoveries       (1,910)       (1,910)       0         28       CF(L)Co       (1,910)       (1,910)       0         29       External       0       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)					
24       Customer Costs       325       0       (325)         25       Loss (gain) on Disposal of Assets       791       791       0         26       sub-total       91,821       91,672       (149)         27       Cost Recoveries       (1,910)       (1,910)       0         28       CF(L)Co       (1,910)       (1,910)       0         29       External       0       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)					
25       Loss (gain) on Disposal of Assets       791       791       0         26       sub-total       91,821       91,672       (149)         27       Cost Recoveries       (1,910)       (1,910)       0         28       CF(L)Co       (1,910)       (1,910)       0         29       External       0       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)		•			_
26       sub-total       91,821       91,672       (149)         27       Cost Recoveries       (1,910)       (1,910)       0         28       CF(L)Co       (1,910)       (1,910)       0         30       External       0       0       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)					
27       Cost Recoveries         28       CF(L)Co       (1,910)       (1,910)       0         29       External       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)		, , ,			
28       CF(L)Co       (1,910)       (1,910)       0         29       External       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)			- 1,5-1	,	(110)
29       External       0       0         30       sub-total       (1,910)       (1,910)       0         31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)			(1.910)	(1.910)	0
30     sub-total     (1,910)     (1,910)     0       31     Total Other Costs     89,911     89,762     (149)       32     Interest     92,784     93,584     800       33     Margin     36,481     9,610     (26,871)			(1,515)		
31       Total Other Costs       89,911       89,762       (149)         32       Interest       92,784       93,584       800         33       Margin       36,481       9,610       (26,871)			(1.910)		
33 Margin 36,481 9,610 (26,871)					
	32	Interest	92,784	93,584	800
34 Revenue requirement <u>352,154 322,300 (29,854)</u>	33	Margin	36,481	9,610	(26,871)
	34	Revenue requirement	352,154	322,300	(29,854)

# Newfoundland and Labrador Hydro Adjusting Entries to Restate Actual 2002 Net Operating Income to Revenue Requirement re COS (\$ 000)

Description	on				Debit	Credit
	in SEM Miscellaneous Power Purchased Interest Energy sales	i			(26,871) 800 29,854	(15) (134) (3,634)
					3,783	(3,783)
	ellaneous Customer Costs				325	(325)
Summary	, _	Muskrat Falls	Donations/ Contributions	Reclass Entries	Hydro Quebec	Total
Power Pu Total Oth		(15)	) (134)	0	(3,634) 0	(3,634) (149)
Interest Margin	_	0 15	0 134	0 0	800 (27,020)	800 (26,871)
Revenue	Requirement	0	0	0	(29,854)	(29,854)

#### Nfld and Labrador Hydro Eliminations from Revenue Requirements For the Year Ended December 2002

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	<u>2002</u>
Contributions & Donations	193,500
Contributions Bay D'Espoir Street Lighting	(60,000)
Eliminations	133,500
Muskrat Falls	
SEM	15,000
	15,000
Hydro Quebec Recall	
Revenue	29,854,383
Interest avoided	800,000
Power Purchased - Interest Share	(240,542)
Power Purchased - Recall	(3,393,937)
	27,019,904

1	Q.	RE:	Return on Equity (ROE)
2			
3		57.1	Provide a calculation of forecast average common equity for 2001 and
4			2002 (JCR, Schedule XI). Include details on how net earnings related
5			to export sales to Hydro-Quebec and other non-regulated items are
6			treated in this calculation.
7			
8		57.2	How are forecast dividends allocated between regulated earnings
9			versus non-regulated earnings such as profit on export sales to Hydro-
10			Quebec? Does Hydro have a policy with respect to payment of
11			dividends from non-regulated earnings versus regulated earnings?
12			
13		57.3	Provide calculations of rate of return on regulated average common
14			equity using forecast earnings for 2001 and 2002 as per JCR,
15			Schedule 1, line 41.
16			

57.1 The calculated forecast average common equity is as follows:

17

A.

	Regulated	Export	CF(L)Co	Non- Regulated Expense	Total
Opening retained earnings 2001	267,616	32,437	228,475		528,528
Net Income	13,727	24,077	16,099	(147)	53,756
Dividends	(11,976)	(31,332)	(9,992)		(53,300)
Closing retained earnings 2001 / Opening retained earnings 2002	269,367	25,182	234,582	(147)	528,984
Net Income	9,610	27,020	17,774	(149)	54,255
Dividends	(70,147	(26,637)	(8,116)		(104,900)
Closing retained earnings 2002	208,830	25,565	244,240	(295)	478,340

1	Cumulative net earnings, less dividends, related to export sales to	
2	Hydro-Quebec and subsidiary companies are deducted from retained	ł
3	earnings to arrive at forecast common equity. Net earnings from other	er
4	unregulated sales are included in forecast common equity.	
5		
6	57.2 Hydro's policy is to pay as dividends, 75% of corporate net operating	
7	income net of recall revenues, plus 100% of net recall revenues. For	
8	the purposes of this rate application, only the former were included as	s
9	an anticipated cash outlay for purposes of determination of the	
10	revenue requirement.	
11		
12	57.3 The calculation of rate of return on regulated average common equity	/
13	is as follows:	
14	<u>2000</u> <u>2001</u> <u>2002</u>	
15		
16	Retained earnings 267,616 269,367 208,830	
17	Average retained earnings 268,507 239,085	
18	Net income 13,727 9,610	
19	Rate of return 5.1% 4.0%	
20		

1	Q.	RE: Ir	nterest Coverage				
3		58.1	Provide a calculation of interest coverag	e for 2001 and 20	002		
4			incorporating earnings related to non-reg	gulated activities	such as		
5			export sales to Hydro-Quebec (N.B. refe	er also to NP-2).			
6							
7		58.2	Which calculations of interest coverage	does Hydro provi	de to		
8			financial markets to be used in any asse	ssment of Hydro	s credit		
9			rating?				
10							
11	A.	58.1	Interest coverage has traditionally been	calculated on gro	ss interest,		
12			excluding the debt guarantee fee. On the	at basis, Hydro's	interest		
13			coverage is as follows:				
14							
15				(\$000	D's)		
16				2001	2002		
17		Ne	t interest, per NP-2	102,197	107,934		
18		Int	erest on sinking funds	5,637	6,301		
19		De	ebt guarantee fee	(10,900)	(12,085)		
20		Gr	oss interest	96,934	<u>102,150</u>		
21							
22		Ne	t income	37,658	<u>36,481</u>		
23							
24		Int	erest coverage	1.39	1.36		
25		Int	Interest Coverage = Gross Interest + Net Income ÷ Gross Interest.				

Page	2	of	2
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58.2	Hydro regularly meets with both Canadian and U.S. based rating
	agencies to discuss the financial position of the Company. During
	those discussions, Hydro's consolidated and unconsolidated financial
	results are presented and reviewed.

1	Q.	RE: Return Applied to the Unamortized Balance of the Rate		
2		Stabi	ilization Plan	
3				
4		65.1	What would be the effect on revenue requirement for 2002 of applying	
5			the overall cost of capital to the unamortized balance of the Rate	
6			Stabilization Plan? How does this differ from the effect on revenue	
7			requirement of using the embedded cost of debt? What regulatory	
8			precedents in North America support utilization of the weighted cost	
9			of capital as the return to be applied to the unamortized balance of the	
10			RSP? (KCM, p. 10, lines 18 - 27)	
11				
12	A.	65.1	The return applied to the unamortized balance of the RSP does not	
13			affect revenue requirement.	
14				
15			Please refer to the response to NP-83. If the embedded cost of debt	
16			of 8.0% had been applied, rather than the 7.4%, weighted average	
17			cost of capital, net interest expense would have decreased by	
18			\$539,000 and margin would have increased by the same amount, but	
19			the return on rate base and total revenue requirement would remain	
20			the same.	
21				
22			The Board's formula for translating the weighted average cost of	
23			capital WACC) to the return on rate base for Newfoundland Power as	
24			set forth in Order No. P.U.36 (1998-99), pp. 63-66 is equivalent to	
25			allowing a return on the unamortized balance of the RSP. That	
26			formula adjusts the WACC to return on rate base effectively by the	
27			ratio of invested capital to rate base. Hydro is proposing to apply the	

1	WACC directly to its RSP balance, rather than indirectly through the
2	formula utilized for Newfoundland Power.