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- 1Q.Referring to page 21, at line 23-26, please provide all evidence for your conclusion2that "a very large portion" of Newfoundland Power's costs are fixed and do not3vary in proportion to sales variability. Please provide all underlying data and all4computer printouts, including all statistical tests (e.g., goodness of fit, statistical5confidence, variance, etc.), associated with the regression equations presented at6pages 39 (lines 10-11), 40 (lines 7-8), 41 (lines 8-9 and 12-13) and 42 (lines 8-9).
- 8 A. The statements at page 21, lines 22 to 28 address the risk to operating income associated 9 with extraordinary events due to the high proportion of fixed costs to total costs in 10 Newfoundland Power's cost structure. This element of Newfoundland Power's business risk is also addressed in Section 2.2.2 of the Finance & Accounting Evidence, which 11 12 provides a breakdown of the fixed and variable unit costs of the Company at Table 6, on 13 page 23. As the table shows, fixed costs, over which the Company's management can exert no control, account for a significantly larger portion of Newfoundland Power's total 14 15 costs than variable costs
- The concept of operating leverage referred to by Dr. Morin is described in virtually all
   finance texts. Attachment A contains an excerpt from *Fundamentals of Corporate Finance* (3<sup>rd</sup> Cdn. Edition), by Ross, Westerfield, Jordan and Roberts.
- With reference to the regression equation on page 42 respecting the risk premium
  analysis of U.S. electric utilities, the annual allowed ROE data was taken from
  Regulatory Research Associates, Inc.'s (*"Regulatory Focus"*, Major Rate Case Decisions
  July 2002) comprehensive survey of 437 ROE decisions by regulators over the period
  1987-2001 for electric utilities. The allowed ROE data are shown in Table 1. The
  prevailing yield on long-term Treasury bonds for each year was subtracted from the
  average authorized ROE each year to arrive at the authorized risk premium for that year.

Table 1Allowed ROEs				
	ROE Electric	Bond Yield	Risk Premium	
1987	13.0	8.6	4.4	
1988	12.8	9.0	3.8	
1989	13.0	8.5	4.5	
1990	12.7	8.6	4.1	
1991	12.6	8.1	4.4	
1992	12.1	7.7	4.4	
1993	11.4	6.6	4.8	
1994	11.3	7.4	4.0	
1995	11.6	6.9	4.7	
1996	11.4	6.7	4.7	
1997	11.4	6.6	4.8	
1998	11.7	5.6	6.1	
1999	10.8	5.9	4.9	
2000	11.4	6.0	5.4	
2001	10.9	5.5	5.4	
Mean	11.9	7.2	4.7	

 The statistical output and statistical regression with the risk premium as the dependent variable and interest rates as the independent variable were performed routinely using the standard electronic OLS regression function supplied in the Lotus 123 software. The following statistical relationship between the risk premium (RP) and interest rates (YIELD) emerges over the 1987-2001 period: RP = 0.077163 - 0.42164 YIELD  $R^2 = 0.70$ 

The regression output from the electronic spreadsheet is set out on page 3 of 3.

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Constant		7.7163
Std Err of Y Est		0.3347
R Squared		0.70
No. of		15
Observations		
Degrees of		13
Freedom		
X Coefficient(s)	-0.42164	
Std Err of Coef.	0.07588	
t-value	-5.6	

For the other regression equations, respecting the Canadian allowed risk premium study, the underlying data and regression results are provided in Attachment B. 5