1	Q.	INFORMATION SYSTEMS
2		
3		PUB 22.0 (RE: p. 61 & 62 of 73) Application Enhancements (\$1,087,000)
4		
5		PUB 22.6
6		Please provide details of the cost benefit analysis associated with improvements to
7		the self-service application to include Interactive Voice Response (\$156,000).
8		
9	A.	The net present value analysis associated with improvements to the self-service
10		application to include Interactive Voice Response is provided in Attachment A. The
11		estimated labour cost savings, due to a reduction in the number of calls answered by
12		Customer Account Representatives, is \$52,500 per year, based on 2004 labour costs. The
13		labour savings are offset somewhat by increased hardware and software maintenance fees
14		of \$12,000 per annum. The net present value analysis escalates the labour cost savings
15		and cost increases as noted therein.

NET PRESENT VALUE ANALYSIS

Interactive Voice Reponse

		Capital I	mpacts	Ongoing Operating Expenditures						
		New CCA Tax		Cost Increases		Cost Benefits		Net Operating	Income	After-Tax
	YEAR	Software	Software	<u>Labour</u>	Non-Lab	<u>Labour</u>	Non-Lab	Expenditures	<u>Tax</u>	Cash Flow
		A	В	C	D	E	F	G	Н	I
0	2005	(\$156,000)	\$78,000	\$0	\$0	\$0	\$0	\$0	\$28,174	(\$127,826)
1	2006	\$0	\$78,000	\$0	(\$12,204)	\$54,075	\$0	\$41,871	\$13,050	\$54,921
2	2007	\$0	\$0	\$0	(\$12,411)	\$55,697	\$0	\$43,286	(\$15,635)	\$27,651
3	2008	\$0	\$0	\$0	(\$12,635)	\$57,925	\$0	\$45,290	(\$16,359)	\$28,931
4	2009	\$0	\$0	\$0	(\$12,862)	\$59,663	\$0	\$46,801	(\$16,904)	\$29,896
5	2010	\$0	\$0	\$0	(\$13,087)	\$60,707	\$0	\$47,620	(\$17,200)	\$30,419
Present Value (2005-2010) (See Note J)				D	iscount Rate:	7.03%				\$15,664

NOTES:

A is the total capital cost.

B is the Capital Cost Allowance deduction. It was calculated using declining balance depreciation and the 50% rule for capitalizing additions.

C and D include any software maintenance fees and internal support costs associated with the project. The cost estimates are escalated to the current year using the GDP Deflator Index for non-labour and a general corporate cost escalator for labour.

E and F are the reduced operating costs. The cost estimate is escalated to current year using the GDP Deflator Index for non-labour and a general corporate cost escalator for labour.

G is the sum of columns C, D, E and F.

H is the impact on taxes from the CCA and operating cost deductions. It is equal to column B less column G times the tax rate.

I is the after tax revenue requirement, which is the sum of the capital expenditure (column A) plus operating expenditures (column Q) less the tax reduction (column G).

J is the present value of column I. Column I is discounted using Newfoundland Power's weighted after-tax cost of capital.