

1 **Q. INFORMATION SYSTEMS**

2  
3 **PUB 23.0 (RE: p. 65 & 66 of 73) Customer Systems Replacement (\$144,000)**

4  
5 **PUB 23.2**

6 **Please provide details of the cost benefit analysis associated with enhancing the**  
7 **Customer Service System.**

- 8  
9 A. The net present value analysis associated with Customer Systems Replacement is  
10 provided in Attachment A. The estimated labour cost savings, due to a reduction in  
11 labour required to run the Customer Service System nightly batch programs, is \$61,280  
12 per year, based on 2004 labour costs. The net present value analysis escalates the labour  
13 cost savings as noted therein.

## NET PRESENT VALUE ANALYSIS

### Customer Systems Replacement

		<u>Capital Impacts</u>		<u>Ongoing Operating Expenditures</u>				<u>Net Operating Expenditures</u>	<u>Income Tax</u>	<u>After-Tax Cash Flow</u>
<u>YEAR</u>		<u>New Software</u>	<u>CCA Tax Software</u>	<u>Cost Increases</u>		<u>Cost Benefits</u>				
		A	B	<u>Labour</u>	<u>Non-Lab</u>	<u>Labour</u>	<u>Non-Lab</u>	G	H	I
0	2005	(\$144,000)	\$72,000	\$0	\$0	\$0	\$0	\$0	\$26,006	(\$117,994)
1	2006	\$0	\$72,000	\$0	\$0	\$63,118	\$0	\$63,118	\$3,208	\$66,326
2	2007	\$0	\$0	\$0	\$0	\$65,012	\$0	\$65,012	(\$23,482)	\$41,530
3	2008	\$0	\$0	\$0	\$0	\$67,612	\$0	\$67,612	(\$24,422)	\$43,191
4	2009	\$0	\$0	\$0	\$0	\$69,641	\$0	\$69,641	(\$25,154)	\$44,487
5	2010	\$0	\$0	\$0	\$0	\$70,860	\$0	\$70,860	(\$25,595)	\$45,265
<b>Present Value (2005-2010) (See Note J)</b>				<b>Discount Rate:</b>		<b>7.03%</b>		<b>\$81,587</b>		

#### 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.