

Appendix A: Alternate Comparison Scenarios

For "DC Plans and the ORPP: Why Fees Matter"

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Common Assumptions and Information							
Projection Period	10 Years	10-Year Payroll	\$87,597,768				
Number of Members	160	Starting Member Balance	\$35,000				
Member Contribution Rate	4%	Starting Plan Balance	\$5,600,000				
Member Contributions	\$3,503,911	Starting Member RRSP Room	\$8,820				
Member-Paid Expenses	DC Plan A	Employer-Paid Expenses	DC Plan B				
Employer Total Cost	\$3,503,911	Wage Inflation	2%				

	Scenario A.1 Gross ROI: 4% Operating Expense: 1%		Scenario A.2 Gross ROI: 4% Operating Expense: 2.5%				
	DC Plan A	DC Plan B	DC Plan A	DC Plan B			
Employer Contribution Rate	4%	2.84%	4%	1.33%			
Effective Investment Return	2.97%	4%	1.46%	4%			
Reconciliation of Plan Assets over the 10-Year Projection Period							
Opening Plan Balance	\$5,600,000	\$5,600,000	\$5,600,000	\$5,600,000			
Member Contributions	\$3,503,911	\$3,503,911	\$3,503,911	\$3,503,911			
• Employer Contributions	\$3,503,911	\$2,487,206	\$3,503,911	\$1,162,198			
• Net Investment Earnings	\$3,007,814	\$3,999,293	\$1,391,735	\$3,709,587			
Closing Plan Balance	\$15,615,635	\$15,590,410	\$13,999,556	\$13,975,697			
Average Closing Member Balance	\$97,598	\$97,440	\$87,497	\$87,348			
Fees Paid from Member Accounts	\$1,025,304	-	\$2,382,559	-			
Employer-Paid Fees	-	\$1,016,705	-	\$2,341,713			
Total Employer Cost	\$3,503,911	\$3,503,911	\$3,503,911	\$3,503,911			
Ending Member RRSP Room	\$63,569	\$69,923	\$63,569	\$78,204			



	Scenario A.3 Gross ROI: 6% Operating Expense: 1%		Scenario A.4 Gross ROI: 6% Operating Expense: 2.5%				
	DC Plan A	DC Plan B	DC Plan A	DC Plan B			
Employer Contribution Rate	4%	2.73%	4%	1.1%			
Effective Investment Return	4.95%	6%	3.41%	6%			
Reconciliation of Plan Assets over the Ten-Year Projection Period							
Opening Plan Balance	\$5,600,000	\$5,600,000	\$5,600,000	\$5,600,000			
Member Contributions	\$3,503,911	\$3,503,911	\$3,503,911	\$3,503,911			
• Employer Contributions	\$3,503,911	\$2,394,288	\$3,503,911	\$960,568			
• Net Investment Earnings	\$5,427,194	\$6,479,490	\$3,514,347	\$5,981,001			
Closing Plan Balance	\$18,035,015	\$17,977,689	\$16,122,168	\$16,045,480			
Average Closing Member Balance	\$112,719	\$112,361	\$100,764	\$100,284			
Fees Paid from Member Accounts	\$1,121,469	-	\$2,600,081	-			
Employer-Paid Fees	-	\$1,109,623	_	\$2,543,343			
Total Employer Cost	\$3,503,911	\$3,503,911	\$3,503,911	\$3,503,911			
Ending Member RRSP Room	\$63,569	\$70,504	\$63,569	\$79,464			
Source: Authors' calculations.							