

Actuarial Report on the Superannuation Adjustment Account as at December 31, 2012

Civil Service Superannuation Fund
Indexing to be Effective July 1, 2013

Submitted: March, 2013



**ELLEMENT & ELLEMENT
CONSULTING ACTUARIES**

Airport Executive Centre
503 – 1780 Wellington Avenue
Winnipeg, Manitoba
Canada R3H 1B3

P: 204.954.7300
TF: 888.840.1045
F: 204.954.7310
E: contact.us@ellement.ca

www.ellement.ca

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of The Civil Service Superannuation Fund
as at
December 31, 2012

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1. ACTUARY'S REPORT

The purpose of this Report is to determine the financial position of the Superannuation Adjustment Account (Account) of The Civil Service Superannuation Fund (CSSF or Fund) as at December 31, 2012, and the superannuation adjustment or cost-of-living adjustment (indexing) which can be granted effective July 1, 2013 according to the formula for the increase and the amounts available in the Account. Any increases in retirement pensions or increases in disability pensions are charged to the Account.

The long-term objective is to provide 20-year pre-funding of superannuation adjustments expected to be charged to the Account. At December 31, 2012, this objective had not been achieved.

Superannuation adjustments are granted on July 1 of a year to offset part of the increase in the cost of living that has occurred in the 12-month period ended December 31 of the previous year as measured by the change in the Consumer Price Index for Canada (CPI). The maximum increase, which can be presently granted under the terms of the Civil Service Superannuation Act (CSSA), is 2/3 of the increase in the cost of living.

Effective January 1, 2000, the Civil Service Superannuation Board (Board) adopted a new method to credit interest to the Account to reflect the rate of return earned on the Fund, net of investment expenses and after reflection of any assets dedicated to the Account. As a result, an asset smoothing reserve has been established to dampen the market fluctuations that are expected to occur in the future.

The increase in the CPI, which occurred during the 12 months ending December 31, 2012, is equal to 0.83%.

The amount of the superannuation adjustment a member receives is determined by multiplying the percentage increase approved by the Board by the total of the basic pension plus superannuation adjustments granted to date. The member's basic pension is the formula pension determined under the CSSA prior to any adjustment for an optional form of payment. A full superannuation adjustment is paid to those retired employees who began to receive a pension 18 months prior to the date of increase. A partial or interim superannuation adjustment is paid to those employees who retired or who otherwise became eligible for a pension during that same 18-month period.

I recommend that the superannuation adjustment, effective July 1, 2013, be made equal to no more than 0.55% (2/3 of 0.83%) of the total of the monthly pension which would be received currently if the normal form of pension had been elected, plus any previously granted adjustments in that pension.

I will be pleased to discuss this Report at your convenience.

DATED at Winnipeg this 22nd day of March, 2013.

ELLEMENT & ELLEMENT



Dennis Ellement, F.S.A., F.C.I.A.

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2. VALUATION BALANCE SHEET: GOING CONCERN

The ability of the Account to finance any superannuation adjustment at July 1, 2013 is indicated by the relationship between:

- (a) the value of the assets allocated to the Account as at December 31, 2012 (unaudited financial statements were used for 2012 at the time of preparation of this Report), and
- (b) the present value of the going concern liabilities as at December 31, 2012, which the Account has as a result of the superannuation adjustments already granted.

Going Concern	December 31, 2012	December 31, 2011
<u>Assets</u>		
Value of Account	\$ 386,354,000	\$ 360,882,000
Asset Smoothing Adjustment (Note 1)	(7,509,533)	10,945,780
Unavailable portion of 1986 surplus transfer (Note 6)	(6,577,000)	(8,087,700)
Unavailable portion of 2004 surplus transfer (Note 7)	(129,682,700)	(123,521,700)
Total Assets	<u>\$ 242,584,767</u>	<u>\$ 240,218,380</u>
<u>Liabilities (Note 2)</u>		
Value of superannuation adjustments granted from 1977 to date (Notes 3,5)	\$ 209,953,362	\$ 189,984,639
Provision for future Adverse Experience (PfAD) (Note 3)	6,299,000	5,700,000
Total Liabilities	<u>\$ 216,252,362</u>	<u>\$ 195,684,639</u>
Amount available to finance future superannuation adjustments	<u>\$ 26,332,405</u>	<u>\$ 44,533,741</u>

The long-term objective is to provide 20-year pre-funding of superannuation adjustments expected to be charged to the Account. If the amount in the Account is insufficient to provide for 20-year pre-funding, then the maximum increase in superannuation allowances is limited to 2/3 of the increase in the CPI.

This 20-year objective is estimated to require about \$687,649,800 (increases significantly, if indexing beyond 20 years is also reflected), at a 2.00% indexing level, to be available in the Account as at December 31, 2012. The "long-term" amount available was equal to \$162,592,105 (\$26,332,405 + \$6,577,000 + \$129,682,700) at that date, as indicated above. As a result, the long-term objective of 20-year pre-funding of indexing had not been achieved as at December 31, 2012.

3. VALUATION BALANCE SHEET: SOLVENCY TEST

The Account is exempt from the solvency funding requirements under the Manitoba Pension Benefits Act.

However, the Canadian Institute of Actuaries (CIA) requires that the actuary comment on the financial position of the Account should it be wound up at the valuation date and pensions be purchased at a suitable insurance carrier. The following provides the required CIA disclosure.

	December 31, 2012	December 31, 2011
Solvency Test		
<u>Assets</u>		
Value of Account	\$ 386,354,000	\$ 360,882,000
Asset Smoothing Adjustment (Note 1)	-	-
Unavailable portion of 1986 surplus transfer (Note 6)	-	-
Unavailable portion of 2004 surplus transfer (Note 7)	-	-
Total Assets	<u>\$ 386,354,000</u>	<u>\$ 360,882,000</u>
<u>Liabilities</u> (Note 2)		
Value of superannuation adjustments granted from 1977 to date (Notes 4,5)	\$ 258,579,214	\$ 226,863,144
Provision for future Adverse Experience (PfAD) (Note 4)	7,757,000	6,806,000
Total Liabilities	<u>\$ 266,336,214</u>	<u>\$ 233,669,144</u>
Amount available to finance wind-up superannuation adjustments	<u>\$ 120,017,786</u>	<u>\$ 127,212,856</u>

Unaudited financial statements were used for 2012 at the time of preparation of this Report.

4. COST OF JULY 1, 2013 SUPERANNUATION ADJUSTMENT

Superannuation adjustments are presently limited by the terms of the CSSA to 2/3 of the increase in the CPI during the 12-month period ended December 31 of the year prior to the date of increase. The CPI (2002=100) was 120.2 on December 31, 2011 and 121.2 on December 31, 2012. This indicates the cost of living increased by 0.83% during the period.

The full superannuation adjustment is paid to those retired employees or other persons who became entitled to receive a pension prior to December 31, 2011. Partial or interim superannuation adjustments are paid to members and other persons whose pension commenced after December 31, 2011. These superannuation adjustments are percentages of the full superannuation adjustment. The table of applicable percentages is shown in Note 5 of this Report.

The cost of granting 0.55% or 2/3 of 0.83%, on July 1, 2013 is equal to \$11,903,300 as at December 31, 2012.

Year	Eligible	Change in CPI	Adjustment Granted		% CPI Change	Indexing Cost	Account
	Pensioners	Reviewed	% Part	¢ Part	Granted	Granted	Contributions
1977	2,568	5.91	2.90	46	98.1	\$ 1,735,960	\$ 1,208,780
1978	2,909	9.46	3.50	56	74.0	2,327,200	2,220,958
1979	3,159	8.36	3.10	54	74.2	2,415,200	2,324,642
1980	3,463	9.80	2.75	49	56.1	2,644,500	2,588,509
1981	3,805	11.19	2.90	54	51.8	2,850,500	2,942,025
1982	4,114	12.10	3.90	71	64.5	4,877,200	3,432,320
1983	4,402	9.26	3.88	71	83.4	5,243,370	3,896,083
1984	4,974	4.55	2.25	49	100.0	3,888,500	3,941,546
1985	5,252	3.76	1.89	45	100.0	4,025,700	4,012,187
1986	5,633	4.35	2.18	59	100.0	4,728,800	4,332,794
1987	6,053	4.17	2.09	59	100.0	5,583,500	4,663,735
1988	6,568	4.15	1.39	41	66.7	5,043,430	5,139,247
1989	7,023	4.00	1.24	38	62.0	5,076,098	5,264,954
1990	7,470	5.13	1.71	55	66.7	7,572,600	5,582,498
1991	7,865	5.00	1.67	56	66.7	9,611,200	5,570,536
1992	8,566	3.78	2.52	-	66.7	9,019,300	5,757,381
1993	9,154	2.14	1.43	-	66.7	6,050,000	5,622,028
1994	9,828	1.70	1.13	-	66.7	5,937,400	5,540,923
1995	10,268	0.23	0.15	-	66.7	891,600	5,624,117
1996	10,490	1.75	1.17	-	66.7	7,469,600	5,578,940
1997	9,572	2.17	1.45	-	66.7	7,880,500	4,660,000
1998	9,896	0.73	0.49	-	66.7	2,954,700	4,986,000
1999	10,266	1.05	0.70	-	66.7	4,560,000	5,004,000
2000	10,697	2.58	1.72	-	66.7	11,908,500	5,345,000
2001	10,999	3.23	2.15	-	66.7	16,821,200	6,508,000
2002	11,498	0.70	0.47	-	66.7	3,869,800	6,882,000
2003	11,982	3.88	2.59	-	66.7	19,192,700	7,156,000
2004	12,515	1.99	1.33	-	66.7	9,703,600	7,808,000
2005	13,080	2.12	1.41	-	66.7	10,801,600	8,456,000
2006	13,620	2.15	1.43	-	66.7	11,502,600	8,689,000
2007	14,184	1.64	1.09	-	66.7	10,928,500	9,289,000
2008	14,912	2.38	1.59	-	66.7	17,944,400	9,819,000
2009	15,568	1.16	0.77	-	66.7	12,283,100	10,910,000
2010	16,210	1.32	0.88	-	66.7	16,065,000	11,118,000
2011	16,686	2.35	1.57	-	66.7	29,503,100	11,932,000
2012	17,615	2.30	1.53	-	66.7	30,352,200	13,062,000
2013	18,302	0.83	0.55	-	66.7	11,903,300	n/a
						<u>\$ 325,166,458</u>	<u>\$ 216,868,203</u>

5. OPERATION OF THE ACCOUNT

The Account was established by an amendment to the CSSA, which became effective on July 1, 1977. The purpose of the Account is to finance the Fund's share of increases in superannuation allowances granted as a result of increases in the cost of living after January 1, 1976. On July 1, 1977, \$3,000,000 of the Fund was allocated to the Account. The operation of the Account is determined as follows:

- (a) credit 10.20% of the employees' (plus matching employers') contributions for the year,
- (b) credit interest on the average balance in the Account,
- (c) charge 50% (100% for matching employers) of the superannuation adjustments granted (ensure that 100% of the adjustments in respect of the pension formula improvement made effective September 1, 2000 are charged), and
- (d) credit / charge special transfers to/from the Account authorized by amendments to the CSSA, and events such as the MTS privatization.

The following is a summary of the operation of the Account:

Year	Contributions	Interest Credits	Adjustment Payments	Special Allocations	Closing Balance	Rate of Return
1977	\$ 1,208,780	\$ 160,539	\$ (115,764)	\$ 3,000,000	\$ 4,253,555	7.84%
1978	2,220,958	501,207	(392,028)	-	6,583,692	9.70%
1979	2,324,642	740,889	(715,987)	-	8,933,236	10.03%
1980	2,588,509	1,014,559	(1,057,304)	-	11,479,000	10.46%
1981	2,942,025	1,426,833	(1,445,863)	1,391,100	15,793,095	11.04%
1982	3,432,320	2,076,623	(1,990,248)	1,565,600	20,877,390	12.01%
1983	3,896,083	2,728,585	(2,698,547)	1,767,400	26,570,911	12.20%
1984	3,941,546	3,439,472	(3,296,815)	-	30,655,114	12.79%
1985	4,012,187	3,867,979	(3,784,228)	-	34,751,052	12.57%
1986	4,332,794	4,293,988	(4,363,367)	-	39,014,467	12.36%
1987	4,663,735	4,762,586	(5,254,158)	-	43,186,630	12.30%
1988	5,139,247	5,202,335	(6,028,614)	-	47,499,598	12.17%
1989	5,264,954	5,647,176	(6,557,826)	36,405,787	88,259,689	11.73%
1990	5,582,498	10,679,744	(7,016,480)	-	97,505,451	11.85%
1991	5,570,536	10,948,378	(7,934,086)	-	106,090,279	11.05%
1992	5,757,381	11,310,640	(8,821,101)	1,548,197	115,885,396	10.53%
1993	5,622,028	11,228,338	(9,448,147)	-	123,287,615	9.57%
1994	5,540,923	10,958,839	(9,814,103)	-	129,973,274	8.88%
1995	5,624,117	11,638,837	(9,841,942)	-	137,394,286	8.90%
1996	5,578,940	11,967,044	(9,926,270)	-	145,014,000	8.65%
1997	4,660,000	9,322,000	(7,974,000)	(35,860,000)	115,162,000	8.48%
1998	4,986,000	9,921,000	(8,264,000)	2,808,000	124,613,000	8.35%
1999	5,004,000	9,535,000	(8,269,000)	-	130,883,000	7.61%
2000	5,345,000	12,445,000	(8,760,000)	537,000	140,450,000	9.61%
2001	6,508,000	8,169,000	(9,845,000)	75,000	145,357,000	5.88%
2002	6,882,000	3,903,000	(10,621,000)	-	145,521,000	2.72%
2003	7,156,000	18,193,000	(11,560,000)	-	159,310,000	12.69%
2004	7,808,000	20,492,000	(12,961,000)	-	174,649,000	13.07%
2005	8,456,000	23,912,000	(13,923,000)	-	193,094,000	13.91%
2006	8,689,000	23,350,000	(15,014,000)	-	210,119,000	12.29%
2007	9,289,000	8,507,000	(16,008,000)	-	211,907,000	4.11%
2008	9,819,000	(28,369,000)	(17,193,000)	-	176,164,000	(13.62%)
2009	10,910,000	28,720,000	(18,244,000)	145,000,000	342,550,000	11.72%
2010	11,118,000	41,632,000	(18,830,000)	-	376,470,000	12.29%
2011	11,932,000	(7,253,000)	(20,267,000)	-	360,882,000	(1.95%)
2012	13,062,000	34,770,000	(22,360,000)	-	386,354,000	9.76%
Total	\$ 216,868,203	\$ 331,843,591	\$ (320,595,878)	\$ 158,238,084		

6. ANALYSIS

The financial position of the Account as at December 31, 2012 can be reproduced if the amount available to finance future superannuation adjustments as at December 31, 2011 is adjusted to recognize the various changes in the financial position which occurred during 2012. This procedure is demonstrated in the following schedule on both a going concern and solvency test basis:

Going Concern

2012 Operation	Assets	Liabilities & Reserves	Amount Available
Opening Balance	\$ 360,882,000	\$ 316,348,259	\$ 44,533,741
Contributions/2012 Indexing	13,062,000	30,352,200	(17,290,200)
Special Allocations	-	-	-
Amortization	-	(8,194,700)	8,194,700
Expected Interest	19,592,800	24,361,400	(4,768,600)
Investment Experience Gain/(Loss)	15,177,200	-	15,177,200
Benefit Experience Gain/(Loss)	(22,360,000)	(21,899,777)	(460,223)
Asset Smoothing Adjustment	-	18,455,313	(18,455,313)
Assumptions (Generational Mortality)	-	599,000	(599,000)
Closing Balance	<u>\$ 386,354,000</u>	<u>\$ 360,021,695</u>	<u>\$ 26,332,305</u>

Solvency Test

2012 Operation	Assets	Liabilities & Reserves	Amount Available
Opening Balance	\$ 360,882,000	\$ 233,669,144	\$ 127,212,856
Contributions/2012 Indexing	13,062,000	37,408,866	(24,346,866)
Special Allocations	-	-	-
Amortization	-	-	-
Expected Interest	11,791,300	8,384,300	3,407,000
Investment Experience Gain/(Loss)	22,978,700	-	22,978,700
Benefit Experience Gain/(Loss)	(22,360,000)	(21,937,677)	(422,323)
Asset Smoothing Adjustment	-	-	-
Assumptions (Interest & Mortality)	-	8,811,581	(8,811,581)
Closing Balance	<u>\$ 386,354,000</u>	<u>\$ 266,336,214</u>	<u>\$ 120,017,786</u>

Pursuant to the Standards of the Canadian Institute of Actuaries (CIA) it is now required to disclose the incremental cost in the next year on a hypothetical wind-up/solvency basis. This incremental cost is estimated to be equal to \$14,660,141 as at December 31, 2012. This cost in essence reflects the present value of the estimated increase in solvency liabilities in the next twelve months, plus the actual benefit payments for one year.

7. NOTES

Note 1: ASSET SMOOTHING ADJUSTMENT AS AT DECEMBER 31, 2012

Year End	Closing Assets	Net Investment Income	Rate of Return		Investment Experience Gain/(Loss)	Unamortized Portion of Investment Experience	
			Net	Assumed		Gain/(Loss)	
			(%)	(%)		(%)	\$
2008	176,164,000	(28,369,000)	(13.62)	6.00	(40,862,200)	-	-
2009	342,550,000	28,720,000	11.72	6.00	14,020,180	20	2,804,036
2010	376,470,000	41,632,000	12.29	5.50	23,003,830	40	9,201,532
2011	360,882,000	(7,253,000)	(1.95)	5.50	(27,729,638)	60	(16,637,783)
2012	386,354,000	34,770,000	9.76	5.50	15,177,185	80	12,141,748
						Calculated:	\$ 7,509,533
						+/- 10% Cap:	(38,635,400)
						Use:	\$ 7,509,533

The asset write-down/(asset write-up) is to be capped at +/-10% of the market value of assets.

Note 2: MEMBERSHIP

The following membership information used in this Report was provided by the staff of the Board.

Pensions in Payment	2012	2011
Pensioners	15,482	14,835
Survivors	2,820	2,780
Total	18,302 *	17,615

(* The 18,302 is higher than the pensions in payment count found in the Statistical Report provided by the staff of the Board as it includes some retirements in early 2013 which were included at the time of the preparation of this valuation).

Note 3: ACTUARIAL ASSUMPTIONS - GOING CONCERN

The mortality rates continue to use the UPI994 Generational mortality table (UPXGEN) and the liability interest rate continues at 5.50% per year. The difference between the Actuarial Valuation for the Basic Fund and this Account Valuation is largely attributable to the differences in the demographic profile and asset mix supporting the liabilities of the Account versus those of the Basic Fund. A provision of 3% of liabilities has been made for possible future changes in assumptions.

Note 4: ACTUARIAL ASSUMPTIONS - SOLVENCY TEST

The Canadian Institute of Actuaries prescribes the mortality and interest rates to be used to perform the solvency test (hypothetical wind-up) calculations. For this Report, the prescribed mortality table is the UPXGEN mortality table (previously UPXGEN) and the prescribed liability interest rate is 2.96% (previously 3.31%) per year as a December 31, 2012. No future indexing is available unless the Account has a solvency excess.

Note 5: **PARTIAL SUPERANNUATION ADJUSTMENTS EFFECTIVE
JULY 1, 2013**

Pension Commencement	<u>Percentage of Full Adjustment Payable</u>	
	<u>Partial</u>	<u>Interim (delayed 12 months)</u>
≤ December, 2011	100.00 %	-
January, 2012	91.67	-
February, 2012	83.33	-
March, 2012	75.00	-
April, 2012	66.67	-
May, 2012	58.33	-
June, 2012	50.00	-
July, 2012	-	45.83 %
August, 2012	-	41.67
September, 2012	-	37.50
October, 2012	-	33.33
November, 2012	-	29.17
December, 2012	-	25.00
January, 2013	-	20.83
February, 2013	-	16.67
March, 2013	-	12.50
April, 2013	-	8.33
May, 2013	-	4.17

Beneficiaries receive 2/3 of the superannuation adjustment otherwise paid.

Note 6: **1986 SURPLUS TRANSFER AMORTIZATION**

The initial unamortized amount of \$23,632,210 is the portion of the \$31,788,810 surplus as at December 31, 1986 transferred to the Account that is not immediately available to provide superannuation adjustments. It is to be made available or amortized gradually as new retirements occur after 1986.

1986 SURPLUS TRANSFER AMORTIZATION

	[1]	[2]	[3]	[4]	[5]	[6]	[7]
	Calendar	Unamortized	Interest	Amount	Unamortized	Nominal	Amortized
	Year	Amount	Credit	Amortized	Amount	Rate of	Amount
		Jan. 1	Dec. 31	Dec. 31	Dec. 31	Return	(%)
						(%)	(%)
HISTORICAL							
0	1986	\$ 31,788,810	-	\$ 8,156,600	\$ 23,632,210	-	-
1	1987	23,632,210	-	1,079,992	22,552,218	-	4.57
2	1988	22,552,218	-	1,127,611	21,424,607	-	5.00
3	1989	21,424,607	\$ 2,586,803	1,241,390	22,770,020	11.73	5.17
4	1990	22,770,020	2,778,183	1,382,158	24,166,045	11.85	5.41
5	1991	24,166,045	2,744,116	1,480,059	25,430,102	11.05	5.50
6	1992	25,430,102	2,748,283	1,617,439	26,560,946	10.53	5.74
7	1993	26,560,946	2,602,697	1,778,982	27,384,661	9.57	6.10
8	1994	27,384,661	2,485,743	1,926,641	27,943,763	8.88	6.45
9	1995	27,943,763	2,542,331	2,060,860	28,425,234	8.90	6.76
10	1996	28,425,234	2,511,954	2,168,697	28,768,491	8.65	7.01
11	1997	21,654,446	1,875,227	1,752,961	21,776,712	8.48	7.45 *
12	1998	21,776,712	1,856,314	1,911,912	21,721,114	8.35	8.09
13	1999	21,721,114	1,684,425	1,959,044	21,446,495	7.61	8.37
14	2000	21,446,495	2,110,524	2,025,904	21,531,115	9.61	8.60
15	2001	21,531,115	1,284,640	2,032,884	20,782,871	5.88	8.91
16	2002	20,782,871	569,138	2,062,604	19,289,405	2.72	9.66
17	2003	19,289,405	2,525,483	2,327,649	19,487,239	12.69	10.67
18	2004	19,487,239	2,630,205	2,494,848	19,622,596	13.07	11.28
19	2005	19,622,596	2,824,422	2,680,174	19,766,844	13.91	11.94
20	2006	19,766,844	2,503,987	2,901,889	19,368,942	12.29	13.03
21	2007	19,368,942	796,064	2,845,282	17,319,724	4.11	14.11
22	2008	17,319,724	(2,358,946)	2,395,221	12,565,557	(13.62)	16.01
23	2009	12,565,557	1,472,683	2,389,308	11,648,932	11.72	17.02
24	2010	11,648,932	1,431,654	2,527,169	10,553,417	12.29	19.32
25	2011	10,553,417	(205,792)	2,259,921	8,087,704	(1.95)	21.84
26	2012	8,087,704	789,360	2,300,047	6,577,017	9.76	25.91
27	2013	6,577,017	361,736	2,198,891	4,739,862	5.50	31.69
28	2014	4,739,862	260,692	1,933,714	3,066,840	5.50	38.67
29	2015	3,066,840	168,676	1,758,503	1,477,013	5.50	54.35
30	2016	1,477,013	81,236	1,558,249	-	5.50	100.00

* Remaining surplus reduced by \$7,114,045 as a result of transfer to MTS.

Note 7: **2004 SURPLUS TRANSFER AMORTIZATION**

The initial unamortized amount of \$121,945,754 is the portion of the \$145,000,000 surplus as at December 31, 2004 transferred to the Account that is not immediately available to provide superannuation adjustments. It is to be made available or amortized gradually as new retirements occur after 2009.

2004 SURPLUS TRANSFER AMORTIZATION

	[1]	[2]	[3]	[4]	[5]	[6]	[7]
		Unamortized	Interest	Amount	Unamortized	Nominal	
	Calendar	Amount	Credit	Amortized	Amount	Rate of	Amortized
	Year	Jan. 1	Dec. 31	Dec. 31	Dec. 31	Return	Amount
						(%)	(%)
0	2004	\$ 145,000,000	\$ -	\$ -	\$ 145,000,000	-	-
1	2005	145,000,000	-	-	145,000,000	-	3.33
2	2006	145,000,000	-	-	145,000,000	-	3.45
3	2007	145,000,000	-	-	145,000,000	-	3.57
4	2008	145,000,000	-	-	145,000,000	-	3.70
5	2009	145,000,000	3,538,435	26,592,681	121,945,754	2.44 *	3.85
6	2010	121,945,754	14,987,133	5,477,315	131,455,572	12.29	4.00
7	2011	131,455,572	(2,563,384)	5,370,508	123,521,680	(1.95)	4.17
8	2012	123,521,680	12,055,716	5,894,669	129,682,727	9.76	4.35
9	2013	129,682,727	7,132,550	6,218,876	130,596,401	5.50	4.55
10	2014	130,596,401	7,182,802	6,560,914	131,218,289	5.50	4.76
11	2015	131,218,289	7,217,006	6,921,765	131,513,530	5.50	5.00
12	2016	131,513,530	7,233,244	7,302,462	131,444,312	5.50	5.26
13	2017	131,444,312	7,229,437	7,704,097	130,969,652	5.50	5.56
14	2018	130,969,652	7,203,331	8,127,823	130,045,160	5.50	5.88
15	2019	130,045,160	7,152,484	8,574,853	128,622,791	5.50	6.25
16	2020	128,622,791	7,074,254	9,046,470	126,650,575	5.50	6.67
17	2021	126,650,575	6,965,782	9,544,026	124,072,331	5.50	7.14
18	2022	124,072,331	6,823,978	10,068,947	120,827,362	5.50	7.69
19	2023	120,827,362	6,645,505	10,622,739	116,850,128	5.50	8.33
20	2024	116,850,128	6,426,757	11,206,990	112,069,895	5.50	9.09
21	2025	112,069,895	6,163,844	11,823,374	106,410,365	5.50	10.00
22	2026	106,410,365	5,852,570	12,473,659	99,789,276	5.50	11.11
23	2027	99,789,276	5,488,410	13,159,711	92,117,975	5.50	12.50
24	2028	92,117,975	5,066,489	13,883,495	83,300,969	5.50	14.29
25	2029	83,300,969	4,581,553	14,647,087	73,235,435	5.50	16.67
26	2030	73,235,435	4,027,949	15,452,677	61,810,707	5.50	20.00
27	2031	61,810,707	3,399,589	16,302,574	48,907,722	5.50	25.00
28	2032	48,907,722	2,689,925	17,199,216	34,398,431	5.50	33.33
29	2033	34,398,431	1,891,914	18,145,173	18,145,172	5.50	50.00
30	2034	18,145,172	997,984	19,143,156	-	5.50	100.00

* Interest was credited from mid October 2009 to December 31, 2009.



ELLEMENT & ELLEMENT CONSULTING ACTUARIES

Airport Executive Centre
503 – 1780 Wellington Avenue
Winnipeg, Manitoba
Canada R3H 1B3

P: 204.954.7300
TF: 888.840.1045
F: 204.954.7310
E: contact.us@ellement.ca

www.ellement.ca