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# Actuarial Report on the Superannuation Adjustment Account as at December 31, 2011

**Civil Service Superannuation Fund** 

Indexing to be Effective July 1, 2012

### Actuarial Report on the Superannuation Adjustment Account of The Civil Service Superannuation Fund as at December 31, 2011

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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, 2011, and the superannuation adjustment or cost-of-living adjustment (indexing) which can be granted effective July 1, 2012 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, 2011, this objective had not been achieved.

Superannuation adjustments are granted on July I 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 I, 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, 2011, is equal to 2.30%.

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 I, 2012 be made equal to no more than 1.53% 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 25th day of May, 2012.

**ELLEMENT & ELLEMENT** 

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

Dennis Ellement

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#### 2. VALUATION BALANCE SHEET: GOING CONCERN

The ability of the Account to finance any superannuation adjustment at July 1, 2012 is indicated by the relationship between:

- (a) the value of the assets allocated to the Account as at December 31, 2011, and
- (b) the present value of the going concern liabilities as at December 31, 2011, which the Account has as a result of the superannuation adjustments already granted.

	D	ecember 31,	D	ecember 31,
Going Concern		2011		2010
Assets		_		_
Value of Account	\$	360,882,000	\$	376,470,000
Asset Smoothing Adjustment (Note I)		10,945,780		(9,690,578)
Unavailable portion of 1986 surplus transfer (Note 6)		(8,087,700)		(10,553,400)
Unavailable portion of 2004 surplus transfer (Note 7)		(123,521,700)		(131,455,600)
Total Assets	\$	240,218,380	\$	224,770,422
<u>Liabilities</u> (Note 2)				
Value of superannuation adjustments				
granted from 1977 to date (Notes 3,5)	\$	189,984,639	\$	171,441,466
Provision for future Adverse Experience (PfAD) (Note 3)		5,700,000		5,143,000
Total Liabilities	\$	195,684,639	\$	176,584,466
Amount available to finance future				
superannuation adjustments	\$	44,533,741	\$	48,185,956

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 \$630,320,500 (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, 2011. The "long-term" amount available was equal to \$176,143,141 (\$44,533,741 + \$8,087,700 + \$123,521,700) 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, 2011.

#### 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.

	D	ecember 31,	D	ecember 31,
Solvency Test		2011		2010
Assets				
Value of Account	\$	360,882,000	\$	376,470,000
Asset Smoothing Adjustment (Note I)		-		-
Unavailable portion of 1986 surplus transfer (Note 6)		-		-
Unavailable portion of 2004 surplus transfer (Note 7)		-		
Total Assets	\$	360,882,000	\$	376,470,000
<u>Liabilities</u> (Note 2)				
Value of superannuation adjustments				
granted from 1977 to date (Notes 4,5)	\$	226,863,144	\$	185,364,658
Provision for future Adverse Experience (PfAD) (Note 4)		6,806,000		5,561,000
Total Liabilities	\$	233,669,144	\$	190,925,658
Amount available to finance wind-up				
superannuation adjustments	\$	127,212,856	\$	185,544,342

#### 4. COST OF JULY 1, 2012 SUPERANNUATION ADJUSTMENT

Superannuation adjustments are presently limited by the terms of the CSSA to 2/3 of the increase in the CPI during the I2-month period ended December 31 of the year prior to the date of increase. The CPI (2002=100) was 117.5 on December 31, 2010 and 120.2 on December 31, 2011. This indicates the cost of living increased by 2.30% 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, 2010. Partial or interim superannuation adjustments are paid to members and other persons whose pension commenced after December 31, 2010. 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 1.53% or 2/3 of 2.30%, on July 1, 2012 is equal to \$30,352,200 as at December 31, 2011.

	Eligible	Change in CPI	Adjustmen	nt Granted	% CPI Change	Indexing Cost	Account
Year	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
200 I	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	n/a
						\$313,263,158	\$203,806,203

#### 5. OPERATION OF THE ACCOUNT

The Account was established by an amendment to the CSSA, which became effective on July I, 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 I, 1976. On July I, 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:

		Interest	Adjustment	Special	Closing	Rate of
Year	Contributions	Credits	Payments	Allocations	Balance	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%)
Total	\$203,806,203	\$297,073,591	\$(298,235,878)	\$158,238,084		

#### 6. ANALYSIS

The financial position of the Account as at December 31, 2011 can be reproduced if the amount available to finance future superannuation adjustments as at December 31, 2010 is adjusted to recognize the various changes in the financial position which occurred during 2011. This procedure is demonstrated in the following schedule on both a going concern and solvency test basis:

Going Concern			Liabilities &	Amou	unt
2011 Operation		Assets	Reserves	Availa	ble
Opening Balance	\$	376,470,000	\$ 328,284,044	\$ 48,18	35,956
Contributions/2011 Indexing		11,932,000	29,503,100	(17,57	71,100)
Special Allocations		-	-		-
Amortization		-	(7,630,400)	7,63	30,400
Expected Interest		20,476,600	7,699,100	12,77	77,500
Investment Experience Gain/(Loss)		(27,729,600)	-	(27,72	29,600)
Benefit Experience Gain/(Loss)		(20,267,000)	(21,224,205)	95	57,205
Asset Smoothing Adjustment		-	(20,636,358)	20,63	36,358
Assumptions (Generational Mortality)		-	352,978	(35	52,978)
Closing Balance	\$	360,882,000	\$ 316,348,259	\$ 44,53	33,741
Solvency Test			Liabilities &	Amou	unt
Solvency Test 2011 Operation		Assets	Liabilities & Reserves	Amoi Availa	
•	\$	Assets 376,470,000			ble
2011 Operation	\$		Reserves	Availa \$ 185,54	ble
2011 Operation Opening Balance	\$	376,470,000	Reserves \$ 190,925,658	Availa \$ 185,54	tble 14,342
2011 Operation Opening Balance Contributions/2011 Indexing	\$	376,470,000	Reserves \$ 190,925,658	Availa \$ 185,54	tble 14,342
2011 Operation Opening Balance Contributions/2011 Indexing Special Allocations	\$	376,470,000	Reserves \$ 190,925,658	Availa \$ 185,54 (19,96	tble 14,342
2011 Operation Opening Balance Contributions/2011 Indexing Special Allocations Amortization	\$	376,470,000 11,932,000 - -	Reserves \$ 190,925,658 31,899,121 - -	Availa \$ 185,54 (19,96	14,342 67,121) -
2011 Operation Opening Balance Contributions/2011 Indexing Special Allocations Amortization Expected Interest	\$	376,470,000 11,932,000 - - 16,679,200	Reserves \$ 190,925,658 31,899,121 - -	Availa \$ 185,54 (19,96 7,42 (23,93	144,342 67,121) - - 21,200
2011 Operation Opening Balance Contributions/2011 Indexing Special Allocations Amortization Expected Interest Investment Experience Gain/(Loss)	\$	376,470,000 11,932,000 - - 16,679,200 (23,932,200)	Reserves \$ 190,925,658 31,899,121 9,258,000 -	Availa \$ 185,54 (19,96 7,42 (23,93	14,342 57,121) - - 21,200 32,200)
2011 Operation  Opening Balance Contributions/2011 Indexing Special Allocations Amortization Expected Interest Investment Experience Gain/(Loss) Benefit Experience Gain/(Loss)	\$	376,470,000 11,932,000 - - 16,679,200 (23,932,200)	Reserves \$ 190,925,658 31,899,121 9,258,000 -	Availa \$ 185,54 (19,96 7,42 (23,93 95	14,342 57,121) - - 21,200 32,200)
2011 Operation  Opening Balance  Contributions/2011 Indexing  Special Allocations  Amortization  Expected Interest Investment Experience Gain/(Loss)  Benefit Experience Gain/(Loss)  Asset Smoothing Adjustment	\$	376,470,000 11,932,000 - - 16,679,200 (23,932,200)	Reserves  \$ 190,925,658 31,899,121	Availa \$ 185,54 (19,96 7,42 (23,93 95	1ble 44,342 57,121) - - 21,200 32,200) 57,205 - 10,570)

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 \$32,954,982 as at December 31, 2011. 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, 2011

		Net	Rate of Return			Unamortized Portion of		
Year	Closing	Investment			Investment Experience	Investmen	t Experience	
End	Assets	Income	Net	Assumed	Gain/(Loss)	Gain	/(Loss)	
		<del></del> -	(%)	(%)	· ·	(%)	\$	
2007	211,907,000	8,507,000	4.11	6.00	(3,898,570)	-	-	
2008	176,164,000	(28,369,000)	(13.62)	6.00	(40,862,200)	20	(8,172,440)	
2009	342,550,000	28,720,000	11.72	6.00	14,020,180	40	5,608,072	
2010	376,470,000	41,632,000	12.29	5.50	23,003,830	60	13,802,298	
2011	360,882,000	(7,253,000)	(1.95)	5.50	(27,729,638)	80	(22,183,710)	
						Calculated:	\$ (10,945,780)	
						+/- 10% Cap:	36,088,200	
						Use:	\$ (10,945,780)	

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. (\*The 17,615 is less than the pensions in payment found in the Annual Report to Members as it includes some retirements in early 2012 which were included at the time of the preparation of the valuation file):

Pensions in Payment	2011	2010
Pensioners	14,835	13,984
Survivors	2,780	2,702
Total	17,615 *	16,686

#### Note 3: ACTUARIAL ASSUMPTIONS - GOING CONCERN

The mortality rates have changed from the UP2020 mortality table to the UP1994 Generational mortality table 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 UP1994 Generational mortality table (previously UP2020) and the prescribed liability interest rate is 3.31% (previously 4.48%) per year as a December 31, 2011. No future indexing is available unless the Account has a solvency excess.

# Note 5: PARTIAL SUPERANNUATION ADJUSTMENTS EFFECTIVE JULY 1, 2012

# Percentage of Full Adjustment Payable

	Interim
<u>Partial</u>	(delayed 12 months)
100.00 %	-
91.67	-
83.33	-
75.00	-
66.67	-
58.33	-
50.00	-
-	45.83 %
-	41.67
-	37.50
-	33.33
-	29.17
-	25.00
-	20.83
-	16.67
-	12.50
-	8.33
-	4.17
	100.00 % 91.67 83.33 75.00 66.67 58.33

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.

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	[1]		[2]		[3]		[4]		[5]	[6]	[7]
										Nominal	
		ι	Jnamortized		Interest		Amount	ι	Jnamortized	Rate of	Amortized
	Calendar		Amount		Credit	,	Amortized		Amount	Return	Amount
	Year		Jan. I		Dec. 31		Dec. 31		Dec. 31	(%)	(%)
					HIS	S T	ORICAL				
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		444,824		2,210,778		6,321,750	5.50	25.91
27	2013		6,321,750		347,696		2,113,547		4,555,899	5.50	31.69
28	2014		4,555,899		250,574		1,858,663		2,947,810	5.50	38.67
29	2015		2,947,810		162,130		1,690,252		1,419,688	5.50	54.35
30	2016		1,419,688		78,083		1,497,771		-	5.50	100.00

 $<sup>^{\</sup>ast}$  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
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	[1]	[2]	[3]	[4]	[5]	[6] Nominal	[7]
		Unamortized	Interest	Amount	Unamortized	Rate of	Amortized
	Calendar	Amount	Credit	Amortized	Amount	Return	Amount
	Year	Jan. I	Dec. 31	Dec. 31	Dec. 31	(%)	(%)
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	6,793,692	5,665,886	124,649,486	5.50	4.35
9	2013	124,649,486	6,855,722	5,977,509	125,527,699	5.50	4.55
10	2014	125,527,699	6,904,023	6,306,272	126,125,450	5.50	4.76
- 11	2015	94,936,392	5,221,502	5,007,895	95,149,999	5.50	5.00
12	2016	95,149,999	5,233,250	5,283,329	95,099,920	5.50	5.26
13	2017	95,099,920	5,230,496	5,573,912	94,756,504	5.50	5.56
14	2018	94,756,504	5,211,608	5,880,477	94,087,635	5.50	5.88
15	2019	94,087,635	5,174,820	6,203,903	93,058,552	5.50	6.25
16	2020	93,058,552	5,118,220	6,545,118	91,631,654	5.50	6.67
17	2021	91,631,654	5,039,741	6,905,100	89,766,295	5.50	7.14
18	2022	89,766,295	4,937,146	7,284,880	87,418,561	5.50	7.69
19	2023	87,418,561	4,808,021	7,685,548	84,541,034	5.50	8.33
20	2024	84,541,034	4,649,757	8,108,254	81,082,537	5.50	9.09
21	2025	81,082,537	4,459,540	8,554,208	76,987,869	5.50	10.00
22	2026	76,987,869	4,234,333	9,024,689	72,197,513	5.50	11.11
23	2027	72,197,513	3,970,863	9,521,047	66,647,329	5.50	12.50
24	2028	66,647,329	3,665,603	10,044,705	60,268,227	5.50	14.29
25	2029	60,268,227	3,314,752	10,597,163	52,985,816	5.50	16.67
26	2030	52,985,816	2,914,220	11,180,007	44,720,029	5.50	20.00
27	203 I	44,720,029	2,459,602	11,794,908	35,384,723	5.50	25.00
28	2032	35,384,723	1,946,160	12,443,628	24,887,255	5.50	33.33
29	2033	24,887,255	1,368,799	13,128,027	13,128,027	5.50	50.00
30	2034	13,128,027	722,041	13,850,068	-	5.50	100.00

 $<sup>\</sup>ensuremath{^{*}}$  Interest was credited from mid October 2009 to December 31, 2009.