

Civil Service Superannuation Fund Indexing to be Effective July 1, 2014

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TABLE OF CONTENTS

		<u>Page</u>
I.	Actuary's Opinion	I
2.	Actuarial Valuation Balance Sheet: Going Concern	. 2
3.	Actuarial Valuation Balance Sheet: Solvency Test	. 3
4.	Cost of July 1, 2014 Superannuation Adjustment	. 4
5.	Operation of the Account	5
6.	Analysis of Going Concern Results	. 6
7.	Analysis of Results - Solvency Test	6
8.	Sensitivity Test (Duration)	7
9.	Notes	8

I. ACTUARY'S OPINION

The purpose of this Actuarial Valuation Report (Report/Valuation) 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, 2013, and the superannuation adjustment or cost-of-living adjustment (indexing) which can be granted effective July 1, 2014 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, 2013, 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 I2-month period ended December 3I 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 adjustment 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, 2013, is equal to 1.24%.

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.

We recommend that the superannuation adjustment, effective July 1, 2014, be made equal to no more than 0.83% (2/3 of 1.24%) 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.

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

Respectfully submitted,

ELLEMENT & ELLEMENT

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

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Winnipeg, Manitoba April 17, 2014

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2. ACTUARIAL VALUATION BALANCE SHEET: GOING CONCERN

The ability of the Account to finance any superannuation adjustment at July 1, 2014 is indicated by the relationship between:

- (a) the value of the assets allocated to the Account as at December 31, 2013 (unaudited financial statements were used for 2013 at the time of preparation of this Report), and
- (b) the present value of the going concern liabilities as at December 31, 2013, which the Account has as a result of the superannuation adjustments already granted.

Going Concern	3	31-Dec-2013		31-Dec-2012
<u>Assets</u>				
Value of Account	\$	431,519,000	\$	386,354,000
Asset Smoothing Adjustment (Note 1)		(28,929,460)		(7,509,533)
Unavailable portion of 1986 surplus transfer (Note 6)		(5,126,700)		(6,577,000)
Unavailable portion of 2004 surplus transfer (Note 7)		(141,254,600)		(129,682,700)
Total Assets	\$	256,208,240	\$	242,584,767
<u>Liabilities</u> (Note 2)				
Value of superannuation adjustments				
granted from 1977 to date (Notes 3,5)	\$	211,033,051	\$	209,953,362
Provision for future Adverse Experience (PfAD) (Note 3)		6,799,949		6,299,000
Total Liabilities	\$	217,833,000	\$	216,252,362
Amount available to finance future				
superannuation adjustments	\$	38,375,240	\$	26,332,405

Audited draft financial statements were used for 2013 at the time of preparation of this Report.

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 \$746,255,900 (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, 2013. The "long-term" amount available was equal to \$184,756,540 (\$38,375,240 + \$5,126,700 + \$141,254,600) 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, 2013.

3. ACTUARIAL 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 actuarial valuation date and pensions be purchased at a suitable insurance carrier. The following provides the required CIA disclosure.

Solvency Test	3	81-Dec-2013		3	I-Dec-2012	
Assets						
Value of Account	\$	431,519,000		\$	386,354,000	
Asset Smoothing Adjustment (Note I)		-			-	
Unavailable portion of 1986 surplus transfer (Note 6)		-			-	
Unavailable portion of 2004 surplus transfer (Note 7)					-	
Total Assets	\$	431,519,000	:	\$	386,354,000	
<u>Liabilities</u> (Note 2) Value of superannuation adjustments						
granted from 1977 to date (Notes 4,5)	\$	239,424,467		\$	258,579,214	
Provision for future Adverse Experience (PfAD) (Note 4)		7,183,000			7,757,000	
Total Liabilities	\$	246,607,467	:	\$	266,336,214	
Amount available to finance wind-up superannuation adjustments	\$	184,911,533		\$	120,017,786	

Audited draft financial statements were used for 2013 at the time of preparation of this Report.

4. COST OF JULY 1, 2014 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 I2I.2 on December 31, 2012 and I22.7 on December 31, 2013. This indicates the cost of living increased by I.24% 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, 2012. Partial or interim superannuation adjustments are paid to members and other persons whose pension commenced after December 31, 2012. 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 0.83% or 2/3 of 1.24%, on July 1, 2014 is equal to \$19,494,100 as at December 31, 2013.

	Eligible	Change in CPI	CPI Adjustment 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	4 I	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	13,062,000
2013	18,302	0.83	0.55	-	66.7	11,903,300	14,883,000
2014	18,916	1.24	0.83	-	66.7	19,494,100	n/a
						\$ 344,660,558	\$231,751,203

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%
200 I	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%
2013	14,883,000	53,902,000	(23,620,000)	-	431,519,000	14.11%
Total	\$231,751,203	\$ 385,745,591	\$ (344,215,878)	\$158,238,084		

6. ANALYSIS OF GOING CONCERN RESULTS

The financial position of the Account as at December 31, 2013 can be reproduced if the amount available to finance future superannuation adjustments as at December 31, 2012 is adjusted to recognize the various changes in the financial position which occurred during 2013. This procedure is demonstrated in the following schedule on both a going concern and solvency test basis:

Going Concern				Liabilities &	Amount			
2013 Operation		Assets		Reserves	Available			
Opening Balance	\$ 386,354,000		\$	360,021,595	\$	26,332,405		
Contributions/2013 Indexing		14,883,000		11,903,300		2,979,700		
Special Allocations		-		-		-		
Amortization		-		(9,104,700)		9,104,700		
Expected Interest		21,009,200		31,428,400		(10,419,200)		
Investment Experience Gain/(Loss)		32,892,800		-		32,892,800		
Benefit Experience Gain/(Loss)		(23,620,000)		(23,025,711)		(594,289)		
Asset Smoothing Adjustment		-		21,419,927		(21,419,927)		
Assumptions (PfAD)		-		500,949		(500,949)		
Closing Balance	\$	431,519,000	\$	393,143,760	\$	38,375,240		

7. ANALYSIS OF RESULTS - SOLVENCY TEST

The solvency test interest rate assumption for annuity purchases has increased by 0.93% from 2.96% to 3.89%. The solvency test interest rate assumption less than 10 years for cash settlements has increased by 0.60% from 2.40% to 3.00%, and the greater than 10 year solvency test interest rate has increased by 1.00% from 3.60% to 4.60%. The estimated impact of this change is an increase in the solvency liabilities of \$18,741,400.

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 cost is estimated to be equal to \$19,489,644 as at December 31, 2013. This cost in essence reflects the present value of the increase of the solvency liabilities in the next year plus the annual benefit payments expected to be made.

8. SENSITIVITY TEST (DURATION)

The impact on pension liabilities of changes in the actuarial assumptions depends largely upon the number of years over which benefits will be paid and the exact pattern of the expected benefit cash flow. The demographics of the group covered by a valuation have an impact on the resulting change in liability for a given change in an actuarial assumption. Different parts of the valuation are affected differently by a change in a specific valuation assumption. Two of the more significant assumptions are the real rate of return and the assumed inflation rate expected in the future. There are rules of thumb to estimate the effect upon liabilities of a change in the assumed real rate or assumed inflation rate. These rules of thumb can be expressed mathematically by introducing the concept of duration where:

% change in liability = - duration x % change in assumed rate

The approximation is usually quite good for small changes in the assumed rate (we will test a negative 1/4% change). The following table summarizes the application of the above formula to the Account data as at December 31, 2013.

GOING CONCERN		Decrease Real Rate 1/4%						
Real Rate	3.50%		3.25%					
Inflation Rate	2.00%		2.00%					
Nominal Rate	5.50%		5.25%					
Mortality	UPXGEN		UPXGEN	% Change in	Estimated			
Liability Category	Liability		Liability	Liability	Duration			
Active Participants	\$ -	\$	-	-	-			
Other Participants	-		-	-	-			
Pensions in Payment	211,033,051		215,027,010	1.89%	7.57			
Total	\$ 211,033,051	\$	215,027,010	1.89%	7.57			
Increase/(Decrease) in Liabilities		\$	3,993,959					

SOLVENCY TEST		Decrease Real Rate 1/4%						
Cash Settlements 1st 10 years	n/a		n/a					
Cash Settlements thereafter	n/a		n/a					
Annnuity Purchases	3.89%		3.64%					
Mortality	UPXGEN		UPXGEN	% Change in	Estimated			
Liability Category	Liability		Liability	Liability	Duration			
Active Participants	\$ -	\$	-	-	-			
Other Participants	-		-	-	-			
Pensions in Payment	239,424,467		244,462,483	2.10%	8.42			
Total	\$ 239,424,467	\$	244,462,483	2.10%	8.42			
Increase/(Decrease) in Liabilities		\$	5,038,016					

9. NOTES

Note 1: ASSET SMOOTHING ADJUSTMENT AS AT DECEMBER 31, 2013

		Net	Rate of Return			Unamor	Unamortized Portion of		
Year	Closing	Investment			Investment Experience	Investment Experience			
End	Assets	Income	Net	Assumed	Gain/(Loss)	G	ain/(Loss)		
			(%)	(%)		(%)		\$	
2009	342,550,000	28,720,000	11.72	6.00	14,020,180	-		-	
2010	376,470,000	41,632,000	12.29	5.50	23,003,830	20		4,600,766	
2011	360,882,000	(7,253,000)	(1.95)	5.50	(27,729,638)	40		(11,091,855)	
2012	386,354,000	34,770,000	9.76	5.50	15,177,185	60		9,106,311	
2013	431,519,000	53,902,000	14.11	5.50	32,892,798	80		26,314,238	
						Calculated:	\$	28,929,460	
						+/- 10% Cap:		(43,151,900)	
						Use:	\$	28,929,460	

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	31-Dec-2013	31-Dec-2012
Pensioners	16,028	15,482
Survivors	2,888	2,820
Total	18,916 *	18,302

(* The 18,916 is different 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 2014 which were included at the time of the preparation of this Report).

Note 3: ACTUARIAL ASSUMPTIONS - GOING CONCERN

The mortality rates continue to use the UP1994 generational mortality table (UPXGEN) and the liability interest rate continues at 5.50% per year. The difference between the Actuarial Valuation Report of the Basic Fund and this Report on the Account 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. This provision provides for the change in the mortality longevity Scale AA to the new Scale B.

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 UPXGEN (previously UPXGEN) and the prescribed liability interest rate is 3.89% (previously 2.96%) per year as at December 31, 2013. No future indexing is available unless the Account has a solvency excess.

Note 5: PARTIAL SUPERANNUATION ADJUSTMENTS EFFECTIVE JULY 1, 2014

Percentage of Full Adjustment Payable

			<u></u>
Pension			Interim
Commencement	<u>Partial</u>		(delayed 12 months)
\leq December, 2012	100.00	%	-
January, 2013	91.67		-
February, 2013	83.33		-
March, 2013	75.00		-
April, 2013	66.67		-
May, 2013	58.33		-
June, 2013	50.00		-
July, 2013	-		45.83 %
August, 2013	-		41.67
September, 2013	-		37.50
October, 2013	-		33.33
November, 2013	-		29.17
December, 2013	-		25.00
January, 2014	-		20.83
February, 2014	-		16.67
March, 2014	-		12.50
April, 2014	-		8.33
May, 2014	-		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.

	[1]		[2]		[3]		[4]		[5]		[5]		[6]		[7]	
											Nominal					
		Un	amortized		Interest		Amount	U	Inamortized	ı	Rate of	An	nortized			
	Calendar		Amount		Credit		Amortized		Amount		Return	Α	mount			
	Year		Jan. I		Dec. 31		Dec. 31		Dec. 31		(%)		(%)			
					ніс	: T	ORICAL							- 1		
											J					
0	1986	\$	31,788,810		-	\$		\$	23,632,210		-		-			
I	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			
П	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		928,017		2,378,345		5,126,689		14.11		31.69			
28	2014		5,126,689		281,968		2,091,528		3,317,129		5.50		38.67			
29	2015		3,317,129		182,442		1,902,017		1,597,554		5.50		54.35			
30	2016		1,597,554		87,865		1,685,419		-		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.

	[1]	[1] [2]		[3]			[4]		[5]		[6]		[7]
										ominal			
		Unamortized			Interest		Amount		Unamortized		ate of	,	Amortized
	Calendar		Amount		Credit		Amortized		Amount	Re	eturn		Amount
	Year		Jan. I		Dec. 31		Dec. 31		Dec. 31		(%)		(%)
0	2004	\$	145,000,000	\$	-	\$	<u>-</u>	\$	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		18,298,233		6,726,407		141,254,553		14.11		4.55
10	2014		141,254,553		7,769,000		7,096,360		141,927,193		5.50		4.76
11	2015		141,927,193		7,805,996		7,486,659		142,246,530		5.50		5.00
12	2016		142,246,530		7,823,559		7,898,426		142,171,663		5.50		5.26
13	2017		142,171,663		7,819,441		8,332,839		141,658,265		5.50		5.56
14	2018		141,658,265		7,791,205		8,791,145		140,658,325		5.50		5.88
15	2019		140,658,325		7,736,208		9,274,658		139,119,875		5.50		6.25
16	2020		139,119,875		7,651,593		9,784,765		136,986,703		5.50		6.67
17	2021		136,986,703		7,534,269		10,322,927		134,198,045		5.50		7.14
18	2022		134,198,045		7,380,892		10,890,687		130,688,250		5.50		7.69
19	2023		130,688,250		7,187,854		11,489,675		126,386,429		5.50		8.33
20	2024		126,386,429		6,951,254		12,121,608		121,216,075		5.50		9.09
21	2025		121,216,075		6,666,884		12,788,296		115,094,663		5.50		10.00
22	2026		115,094,663		6,330,206		13,491,652		107,933,217		5.50		11.11
23	2027		107,933,217		5,936,327		14,233,693		99,635,851		5.50		12.50
24	2028		99,635,851		5,479,972		15,016,546		90,099,277		5.50		14.29
25	2029		90,099,277		4,955,460		15,842,456		79,212,281		5.50		16.67
26	2030		79,212,281		4,356,675		16,713,791		66,855,165		5.50		20.00
27	2031		66,855,165		3,677,034		17,633,050		52,899,149		5.50		25.00
28	2032		52,899,149		2,909,453		18,602,867		37,205,735		5.50		33.33
29	2033		37,205,735		2,046,315		19,626,025		19,626,025		5.50		50.00
30	2034		19,626,025		1,079,431		20,705,456		-		5.50		100.00

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

