Actuarial Report on the Pension Plan for the Public Service of Canada as at 31 March 2005 Errata, July 2007

Editorial changes as well as corrections of some valuation results were made to the published version of the actuarial report on the Public Service pension plan as at 31 March 2005. The majority of the result corrections occurred within the RCA No. 1 Account and were caused by an incorrect transfer of the valuation results to the report itself. The pension Fund projection was also modified due to the omission of the negative cash flows attributable to the transfer payments out of the Fund. The remaining changes were editorial in nature.

1. Page 8, including the footnote, should read:

- The plan normal cost for the 2006 plan year is $18.01 \%$ of pensionable payroll ${ }^{1}$, which is $\$ 2,809.4$ million. The normal cost is estimated to increase marginally to $18.08 \%$ and $18.15 \%$ for the following two plan years.


## D. Retirement Compensation Arrangements (RCA) Accounts Results

- As at 31 March 2005, the RCA No. 1 Account had an actuarial excess of $\$ 259.6$ million.
- The RCA No. 1 Account normal cost for the 2007 plan year is $0.36 \%$ of pensionable payroll, that is $\$ 56.8$ million, and is estimated to be $0.36 \%$ and $0.35 \%$ of pensionable payroll respectively for the following two plan years.
- As at 31 March 2005, the RCA No. 2 Account had an actuarial deficiency of $\$ 71.0$ million.
- If the $\$ 71.0$ million RCA No. 2 Account actuarial deficiency were to be amortized, after taking into consideration the special payment of $\$ 10.3$ million made on 31 March 2006, in 11 equal annual instalments beginning on 31 March 2007, the instalments including interest would be $\$ 7.0$ million.

[^0]2. Page 18, Table 6 should read:

Table 6 RCA Account Balance Sheet
As at 31 March 2005 (\$ millions)

|  | RCA No. 1 | RCA No. 2 |
| :--- | ---: | :---: |
| Assets |  |  |
| RCA Account | 481.2 | 834.4 |
| Refundable tax | 449.7 | 827.6 |
| Excess of assets over actuarial liabilities | $\underline{259.6}$ | $\underline{(71.0)}$ |
|  | $\mathbf{6 7 1 . 3}$ | $\mathbf{1 , 7 3 3 . 0}$ |

Actuarial liabilities
Pensionable earnings over the tax limit
Active contributors 370.0
Pensioners 51.2
Survivor Allowance
Active contributors 155.0
Pensioners 65.3

| Waiver of pension reduction | 6.9 | - |
| :--- | ---: | :---: |
| Former deputy heads | 22.9 | - |
| Early Retirement Incentive | - | $1,733.0$ |

Total actuarial liabilities
$671.3 \quad 1,733.0$
3. Page 18, second last paragraph should read:

Since the last valuation on the RCA Account No. 1 as at 31 March 2002, the actuarial deficiency of $\$ 485.2$ million has become an actuarial excess of $\$ 259.6$ million as at 31 March 2005. The significant financial position improvement is mainly the result of the 2005 Federal Budget that raised the maximum annual pension accrual in a registered pension plan from the current $\$ 2,000$ to $\$ 2,111$ for calendar year 2006, $\$ 2,222$ for calendar year 2007, \$2,333 for calendar year 2008 and to \$2,444 for calendar year 2009.
4. Page 19, Table 7 should read:

Table 7 RCA Account Normal Costs (\$ millions)

|  | Plan Year |  |  |
| :--- | :---: | :---: | :---: |
|  | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ |
| Total Normal Cost | 46.01 | 46.37 | 46.96 |
| $\quad$ Pensionable earnings over tax limit | 18.38 | 19.23 | 20.08 |
| Survivor allowance | $\underline{0.68}$ | $\underline{0.57}$ | $\underline{0.51}$ |
| $\quad$ Deputy Head | $\mathbf{6 5 . 0 7}$ | $\mathbf{6 6 . 1 7}$ | $\mathbf{6 7 . 5 4}$ |

Member Contributions

| Pensionable earnings over tax limit | 8.18 | 7.82 | 7.57 |
| :--- | ---: | ---: | ---: |
| Deputy Head | $\underline{0.09}$ | $\underline{0.08}$ | $\underline{0.07}$ |
| Total member contributions | 8.28 | 7.90 | 7.64 |
| Government Normal Cost | $\mathbf{5 6 . 7 9}$ | $\mathbf{5 8 . 2 7}$ | $\mathbf{5 9 . 9 0}$ |
|  |  |  |  |
| Normal cost as \% of total pensionable payroll | $0.36 \%$ | $\mathbf{0 . 3 6 \%}$ | $0.35 \%$ |

5. Page 20, Table 8 should read:

Table 8 Estimated Government Cost

| Plan Year | Normal Cost |  | Other Contributions ${ }^{1}$ | Total Cost |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { PSSA } \\ (\$ \text { millions }) \end{gathered}$ | $\begin{gathered} \text { RCA } \\ (\$ \text { millions }) \end{gathered}$ | (\$ millions) | (\$ millions) | (\% of pensionable payroll) |
| 2006 | 1,992.2 | 56.8 | 264.6 | 2,313.6 | 14.83\% |
| 2007 | 2,047.4 | 58.3 | 311.4 | 2,417.1 | 14.80\% |
| 2008 | 2,089.1 | 59.9 | 317.7 | 2,466.7 | 14.49\% |

6. Page 21, Appendix 1, first paragraph should read:
"The previous valuation report was based on the plan provisions as they stood after the enactment of Bill C-78 on 14 September 1999."
7. Page 57, Table 19 should read:

Table 19 Pension Fund Projection ${ }^{1}$
(\$ millions)

| Plan <br> Year | Beginning <br> Market Value |  |  |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: |
| 2006 | 14,367 | Beginning <br> Liabilities | Current <br> Services Cost | Payments | Investment <br> Earnings |
| 2007 | 17,933 | 14,367 | 2,803 | 249 | 1,012 |
| 2008 | 21,756 | 17,933 | 2,946 | 331 | 1,208 |
| 2009 | 25,858 | 21,756 | 3,080 | 428 | 1,450 |
| 2010 | 30,270 | 25,858 | 3,217 | 541 | 1,736 |
| 2011 | 35,012 | 30,270 | 3,362 | 670 | 2,050 |
| 2012 | 40,112 | 35,012 | 3,520 | 815 | 2,395 |
| 2013 | 45,600 | 40,112 | 3,693 | 979 | 2,774 |
| 2014 | 51,504 | 45,600 | 3,879 | 1,163 | 3,188 |
| 2015 | 57,802 | 51,504 | 4,077 | 1,368 | 3,589 |
| 2020 | 95,749 | 57,802 | 4,289 | 1,591 | 4,017 |
| 2025 | 146,045 | 95,749 | 5,476 | 3,057 | 6,588 |
| 2030 | 211,118 | 146,045 | 6,916 | 5,181 | 9,985 |
| 2035 | 292,982 | 211,118 | 8,696 | 8,010 | 14,375 |
| 2040 | 390,210 | 292,982 | 10,688 | 12,302 | 19,864 |
| 2045 | 503,350 | 390,210 | 12,994 | 18,048 | 26,360 |
| 2050 | 634,692 | 503,350 | 15,768 | 24,968 | 33,914 |

[^1]8. Page 66, Table 23 should read:

Table 23 Male Contributors (Main Group)
Number and Average Annual Earnings ${ }^{1}$ as at 31 March 2004


[^2]9. Page 67, Table 24 should read:

Table 24 Female Contributors (Main Group)


[^3]10. Page 68, Table 25 should read:

Table 25 Male Contributors (Operational Service Group)
Number and Average Annual Earnings ${ }^{1}$ as at 31 March 2004


[^4]11. Page 69, Table 26 should read:

Table 26 Female Contributors (Operational Service Group)
Number and Average Annual Earnings ${ }^{1}$ as at 31 March 2004


[^5]12. Page 70, Table 27 should read:

Table 27 Contributors on Leave Without Pay and Non-active Contributors
Number and Average Annual Earnings ${ }^{1}$ as at 31 March 2004


[^6]13. Page 80, Table 37 should read:

| Table $37 \begin{aligned} & \text { Assumed Rates of Pensionable Disability } \\ & \text { (per 1,000 individuals) }\end{aligned}$ |  |  |
| :---: | :---: | :---: |
| Age ${ }^{1}$ | Male | Female |
| to 25 | 0.2 | 0.1 |
| 26 | 0.2 | 0.1 |
| 27 | 0.2 | 0.1 |
| 28 | 0.2 | 0.2 |
| 29 | 0.2 | 0.2 |
| 30 | 0.2 | 0.3 |
| 31 | 0.2 | 0.4 |
| 32 | 0.2 | 0.4 |
| 33 | 0.2 | 0.5 |
| 34 | 0.3 | 0.5 |
| 35 | 0.3 | 0.7 |
| 36 | 0.4 | 0.7 |
| 37 | 0.6 | 0.9 |
| 38 | 0.6 | 1.0 |
| 39 | 0.7 | 1.1 |
| 40 | 0.8 | 1.5 |
| 41 | 0.9 | 1.5 |
| 42 | 1.0 | 1.7 |
| 43 | 1.0 | 1.8 |
| 44 | 1.2 | 2.1 |
| 45 | 1.6 | 2.3 |
| 46 | 1.7 | 2.6 |
| 47 | 1.8 | 2.8 |
| 48 | 2.2 | 3.3 |
| 49 | 2.6 | 3.6 |
| 50 | 2.9 | 3.9 |
| 51 | 3.2 | 4.3 |
| 52 | 3.7 | 4.7 |
| 53 | 4.0 | 5.2 |
| 54 | 4.3 | 5.8 |
| 55 | 4.4 | 6.4 |
| 56 | 4.9 | 7.1 |
| 57 | 5.5 | 7.8 |
| 58 | 6.2 | 8.6 |

[^7]14. Page 81, Table 38 should read:

| Table 38 | Assumed Mortality Rates <br> Plan Year 2006 (per 1,000 individuals) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Members and |  | Disability Pensioners |  | Surviving Spouses |  |
|  | Retirem | ensioners |  |  |  |  |
| Age ${ }^{1}$ | Male | Female | Male | Female | Male | Female |
| 20 | 0.3 | 0.2 | 2.9 | 6.1 | 0.9 | 0.3 |
| 25 | 0.4 | 0.3 | 5.7 | 6.7 | 1.0 | 0.4 |
| 30 | 0.6 | 0.4 | 8.8 | 7.3 | 1.1 | 0.5 |
| 35 | 0.8 | 0.4 | 11.8 | 7.7 | 1.4 | 0.7 |
| 40 | 1.1 | 0.5 | 13.7 | 8.0 | 1.7 | 0.9 |
| 45 | 1.4 | 1.1 | 16.1 | 8.7 | 2.4 | 1.4 |
| 50 | 2.1 | 1.5 | 19.7 | 9.2 | 3.6 | 2.1 |
| 55 | 3.4 | 2.3 | 21.3 | 12.1 | 6.2 | 3.1 |
| 60 | 6.4 | 4.3 | 24.9 | 13.9 | 10.9 | 5.6 |
| 65 | 12.8 | 8.3 | 33.9 | 19.5 | 17.6 | 9.7 |
| 70 | 22.1 | 13.4 | 52.5 | 28.8 | 27.4 | 14.8 |
| 75 | 39.0 | 22.5 | 72.1 | 42.8 | 44.1 | 24.9 |
| 80 | 67.5 | 42.0 | 104.9 | 67.0 | 72.7 | 42.5 |
| 85 | 109.1 | 76.6 | 149.2 | 110.1 | 115.6 | 74.7 |
| 90 | 168.1 | 127.3 | 208.3 | 178.9 | 176.3 | 125.6 |
| 95 | 251.8 | 192.2 | 315.5 | 281.3 | 255.2 | 208.5 |
| 100 | 351.4 | 315.4 | 476.3 | 441.9 | 353.8 | 317.2 |
| 105 | 500.0 | 500.0 | 500.0 | 500.0 | 500.0 | 500.0 |
| 110 | 500.0 | 500.0 | 500.0 | 500.0 | 500.0 | 500.0 |
| 115 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 | 1,000.0 |

[^8]15. Page 83, Table 40 should read:

Table 40 Assumptions for Survivor Allowance to Spouse
Probability a member will have an eligible spouse at death (per 1,000 member deaths)

| Age of Deceased Member ${ }^{1}$ | Sex of Deceased Member |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Male |  | Female |  |
|  | Number | Age Difference Between Spouses | Number | Age Difference Between Spouses |
| 20 | 215 | (1) | 565 | 1 |
| 25 | 340 | (1) | 565 | 1 |
| 30 | 429 | (1) | 565 | 1 |
| 35 | 483 | (1) | 565 | 2 |
| 40 | 569 | (2) | 565 | 3 |
| 45 | 665 | (2) | 565 | 2 |
| 50 | 742 | (3) | 565 | 3 |
| 55 | 785 | (3) | 565 | 3 |
| 60 | 799 | (3) | 515 | 3 |
| 65 | 793 | (3) | 467 | 2 |
| 70 | 767 | (3) | 390 | 0 |
| 75 | 716 | (3) | 300 | 1 |
| 80 | 642 | (4) | 193 | (1) |
| 85 | 534 | (5) | 93 | (3) |
| 90 | 396 | (7) | 40 | (4) |
| 95 | 248 | (8) | 15 | (6) |
| 100 | 97 | (8) | 1 | (6) |

[^9]
[^0]:    1 Pensionable payroll means the aggregate of pensionable earnings of all contributors with less than 35 years of service, except for members on leave without pay.

[^1]:    1 For simplicity, expected special payments were not included in the projection.
    2 For projection purposes, the market value used is set equal to the beginning liability. As at 31 March 2005, the corresponding market value was $\$ 14,673.5$ million. This amount includes the present value of prior service contributions of $\$ 428.6$ million and $\$ 120.0$ million of Public Service Corporations contributions made after the valuation date. Include administrative expenses.

[^2]:    ${ }^{1}$ As defined in Note 1 of Appendix 2-D.
    ${ }^{2}$ Expressed in completed years calculated at the beginning of the plan year.
    ${ }^{3}$ The aggregate pensionable earnings of all contributors with less than 34 years of pensionable service.
    ${ }^{4}$ PBDA means the Pension Benefits Division Act.

[^3]:    ${ }^{1}$ As defined in Note 1 of Appendix 2-D.
    ${ }_{2}^{2}$ Expressed in completed years calculated at the beginning of the plan year.
    ${ }^{3}$ The aggregate pensionable earnings of all contributors with less than 34 years of pensionable service.
    ${ }^{4}$ PBDA means the Pension Benefits Division Act.

[^4]:    ${ }^{1}$ As defined in Note 1 of Appendix 2-D.
    ${ }^{2}$ Expressed in completed years calculated at the beginning of the plan year.
    ${ }^{3}$ The aggregate pensionable earnings of all contributors with less than 34 years of pensionable service.
    ${ }^{4}$ PBDA means the Pension Benefits Division Act.

[^5]:    ${ }^{1}$ As defined in Note 1 of Appendix 2-D.
    ${ }^{2}$ Expressed in completed years calculated at the beginning of the plan year.
    ${ }^{3}$ The aggregate pensionable earnings of all contributors with less than 34 years of pensionable service.
    ${ }^{4}$ PBDA means the Pension Benefits Division Act.

[^6]:    ${ }^{1}$ As defined in Note 1 of Appendix 2-D.
    ${ }^{2}$ Expressed in completed years calculated at the beginning of the plan year.
    ${ }^{3}$ The aggregate pensionable earnings of all contributors with less than 34 years of pensionable service.
    ${ }^{4}$ PBDA means the Pension Benefits Division Act.

[^7]:    ${ }^{1}$ Expressed in completed years calculated at the beginning of the plan year.

[^8]:    ${ }^{1}$ Expressed in completed years calculated at the beginning of the plan year.

[^9]:    ${ }^{1}$ Expressed in completed years calculated at the beginning of the plan year.

