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Case File: Individual A

Introduction

This report examines the impacts of a 2013 amendment to the Canada Pension Plan (CPP) regulations, which exempted certain earnings from being considered as pensionable earnings under the CPP.

In order to illustrate the negative impact of this change on Individual A, this report calculates what her CPP retirement pension will be at age 65 if she makes zero CPP contributions for the next 10 years, as compared to what it would have been if she had made maximum contributions for that same period of time.

Methodology

All calculations are done in 2016 dollars. They are guaranteed to be 99.9% accurate, considering the following information:

- Calculations for Individual A's CPP retirement pension are based on her Unadjusted Pensionable Earnings (UPE) data provided from age 18 through to 2014, as detailed on her CPP statement of contributions. The calculations assume that her future CPP contributions will all be at the maximum level until age 65, aside from the 10-year period in question.
- The 10-year period subject to zero CPP contributions versus maximum contributions is January 2015 through December 2024.
- The months subject to the Child Rearing Dropout (CRDO) provision are May 1988 through May 2002, based on three children, born in April 1988, October 1991 and May 1995.

Calculation Results

| Individual A | With 10 years of zero CPP contributions | With 10 years of maximum CPP contributions | Value of 10 years of maximum CPP contributions | |
|----------------------------------|--|--|--|--|
| CPP retirement pension at age 65 | \$637.97 | \$962.23 | + \$324.26 | |

Note: The above amounts are supported by the attached detailed calculation sheets, as follows:

- A-1 Individual A's age-65 CPP retirement pension, calculated with zero CPP contributions during the 10-year period
- A-2 Individual A's age-65 CPP retirement pension, calculated with maximum CPP contributions during the 10-year period

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Impact of Child Rearing Dropout (CRDO) years

As indicated in Appendix A-2, Individual A had 104 months of low-earning years during her potential CRDO period. This means that after the general 17% dropout, her pensionable earnings would be averaged over her best 31.75 years instead of the "normal 39.0 years" that would apply for someone starting their CPP at age 65 and if they didn't qualify for the CRDO provision.

This means that each year of maximum pensionable earnings is worth \$34.41 towards her age-65 CPP retirement pension calculation, instead of the normal value of \$28.01. This further means that the 10-year period of zero contributions will negatively impact her by \$64.00 monthly more than if she hadn't been a child-rearing parent.

Impact of additional years of post-secondary schooling

As indicated in Appendix A-2, Individual A had 60 months of low earnings at the beginning of her contributory period, with 36 months of those being zero-earnings years. This means that she will drop out some or all of these months under the general 17% dropout when her CPP retirement pension is calculated and she therefore won't be able to drop out as many of the years of zero earnings during the 10-year period than she otherwise could.

While it's difficult to quantify the impact of this factor, it definitely means that the 10-year period of zero contributions will negatively impact her more than if she had been working during those early years, instead of attending the additional years of post-secondary education.

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Abbreviations

The following abbreviations are used in this document and on the following calculation sheets.

AMPE Average Monthly Pensionable Earnings

APE Adjusted Pensionable Earnings

AYMPE Average Year's Maximum Pensionable Earnings

CPP Canada Pension Plan

CRDO Child Rearing Dropout

DSB Disability

DUPE Division of Unadjusted Pensionable Earnings

RTR Retirement Pension

Flex RTR Retirement Pension adjusted for taking in earlier or later than age 65

SVR Survivor's benefit

TNCM Total Number of Contributory Months

UPE Unadjusted Pensionable Earnings

YMPE Year's Maximum Pensionable Earnings

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| | | | | | | Number | of dropout | mont | he | Total mths | APE |
|--------------|--------------|----------------------|----------------------|----------------------------|----------|--------|------------|--|--|------------|----------------------------|
| Year | Contrib mths | UPE | YMPE | APE | 15-17% | | CRDO 2 | | | dropout | after dropout |
| 1966 | 0 | | \$5,000 | \$0.00 | | | | | | 0 | \$0.00 |
| 1967 | 0 | | \$5,000 | \$0.00 | | | | | | 0 | \$0.00 |
| 1968 | 0 | | \$5,100 | \$0.00 | | | | | | 0 | \$0.00 |
| 1969 | 0 | | \$5,200 | \$0.00 | | | | | | 0 | \$0.00 |
| 1970 | 0 | | \$5,300 | \$0.00 | | | | | | 0 | \$0.00 |
| 1971 | 0 | | \$5,400 | \$0.00 | | | | | | 0 | \$0.00 |
| 1972 | 0 | | \$5,500 | \$0.00 | | | | | | 0 | \$0.00 |
| 1973 | 0 | | \$5,600 | \$0.00 | | | | | | 0 | \$0.00 |
| 1974 1975 | 0 | | \$6,600 \$7,400 | \$0.00 \$0.00 | | | | | | 0 | \$0.00 \$0.00 |
| 1976 | 0 | | \$8,300 | \$0.00 | | | | | | 0 | \$0.00 |
| 1977 | 0 | | \$9,300 | \$0.00 | | | | | | 0 | \$0.00 |
| 1978 | 0 | | \$10,400 | \$0.00 | | | | | | 0 | \$0.00 |
| 1979 | 4 | \$2,960 | \$11,700 | \$13,267.00 | | | | | | 0 | \$13,267.00 |
| 1980 | 12 | \$5,805 | \$13,100 | \$23,238.00 | | | | | | 0 | \$23,238.00 |
| 1981 | 12 | \$2,335 | \$14,700 | \$8,330.00 | | | | | | 0 | \$8,330.00 |
| 1982 | 12 | \$0 | \$16,500 | \$0.00 | 12 | | | | | 12 | \$0.00 |
| 1983 | 12 | \$0 | \$18,500 | \$0.00 | 12 | | | | | 12 | \$0.00 |
| 1984 | 12 | \$3,350 | \$20,800 | \$8,446.00 | 10 | | | | | 0 12 | \$8,446.00 |
| 1985 1986 | 12 12 | \$0 \$8,243 | \$23,400 \$25,800 | \$0.00 \$16,754.00 | 12 | | 1 | | 1 | 0 | \$0.00 \$16,754.00 |
| 1987 | 12 | \$25,900 | \$25,800 | \$52,440.00 | | | | l | | 0 | \$16,754.00 \$52,440.00 |
| 1988 | 12 | \$12,460 | \$26,500 | \$24,657.00 | | | | l | | 0 | \$24,657.00 |
| 1989 | 12 | \$0 | \$27,700 | \$0.00 | | 12 | | | | 12 | \$0.00 |
| 1990 | 12 | \$0 | \$28,900 | \$0.00 | | 12 | | | | 12 | \$0.00 |
| 1991 | 12 | \$5,349 | \$30,500 | \$9,197.00 | | | 12 | | | 12 | \$0.00 |
| 1992 | 12 | \$0 | \$32,200 | \$0.00 | | 12 | l . | l | | 12 | \$0.00 |
| 1993 | 12 | \$7,206 | \$33,400 | \$11,314.00 | | | 12 | | | 12 | \$0.00 |
| 1994 | 12 | \$13,841 | \$34,400 | \$21,099.00 | | | 12 | l | | 12 | \$0.00 |
| 1995 1996 | 12 12 | \$18,758 \$21,169 | \$34,900 \$35,400 | \$28,185.00 \$31,359.00 | | | | - | | 0 | \$28,185.00 \$31,359.00 |
| 1996 | 12 | \$21,169 | \$35,400 | \$43,503.00 | | | | l | | 0 | \$43,503.00 |
| 1998 | 12 | \$28,338 | \$36,900 | \$40,272.00 | | | | l | | 0 | \$40,272.00 |
| 1999 | 12 | \$33,746 | \$37,400 | \$47,317.00 | | | | l | | 0 | \$47,317.00 |
| 2000 | 12 | \$37,600 | \$37,600 | \$52,440.00 | <u></u> | | <u></u> | L | | 0 | \$52,440.00 |
| 2001 | 12 | \$36,095 | \$38,300 | \$49,421.00 | | | | | | 0 | \$49,421.00 |
| 2002 | 12 | \$35,982 | \$39,100 | \$48,258.00 | | | | l | | 0 | \$48,258.00 |
| 2003 | 12 | \$37,458 | \$39,900 | \$49,231.00 | | | | l | | 0 | \$49,231.00 |
| 2004 | 12 | \$23,252 | \$40,500 | \$30,107.00 | 40 | | | l | | 0 | \$30,107.00 |
| 2005 | 12 | \$0 \$0.765 | \$41,100 | \$0.00 | 12 | | | - | | 12 | \$0.00 |
| 2006 2007 | 12 12 | \$8,765 \$19,200 | \$42,100 \$43,700 | \$10,918.00 \$23,040.00 | | | | l | | 0 | \$10,918.00 \$23,040.00 |
| 2007 | 12 | \$44,900 | \$43,700 | \$52,440.00 | | | | l | | 0 | \$23,040.00 \$52,440.00 |
| 2009 | 12 | \$46,300 | \$46,300 | \$52,440.00 | | | | l | | 0 | \$52,440.00 |
| 2010 | 12 | \$47,200 | \$47,200 | \$52,440.00 | | | | | | 0 | \$52,440.00 |
| 2011 | 12 | \$48,300 | \$48,300 | \$52,440.00 | | | | | | 0 | \$52,440.00 |
| 2012 | 12 | \$50,100 | \$50,100 | \$52,440.00 | | | | l | | 0 | \$52,440.00 |
| 2013 | 12 | \$51,100 | \$51,100 | \$52,440.00 | | | | l | | 0 | \$52,440.00 |
| 2014 | 12 | \$37,984 | \$52,500 | \$37,941.00 | | | | | | 0 | \$37,941.00 |
| 2015 | 12 | \$0 | \$53,600 | \$0.00 | 12 | | | <u> </u> | ļ | 12 | \$0.00 |
| 2016 | 12 | \$0 \$0 | \$54,900 \$54,000 | \$0.00 \$0.00 | 12 12 | | | l | | 12 | \$0.00 |
| 2017 2018 | 12 12 | \$0 \$0 | \$54,900 \$54,900 | \$0.00 \$0.00 | 12 | | | l | | 12 0 | \$0.00 \$0.00 |
| 2018 | 12 | \$0 \$0 | \$54,900 \$54,900 | \$0.00 \$0.00 | | | | l | | 0 | \$0.00 \$0.00 |
| 2020 | 12 | \$0 \$0 | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 |
| 2021 | 12 | \$0 | \$54,900 | \$0.00 | | | | | | 0 | \$0.00 |
| 2022 | 12 | \$0 | \$54,900 | \$0.00 | | | | | | 0 | \$0.00 |
| 2023 | 12 | \$0 | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 |
| 2024 | 12 | \$0 | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 |
| 2025 | 12 | \$54,900 | \$54,900 | \$52,440.00 | | | | | | 0 | \$52,440.00 |
| 2026 | 8 | \$54,900 | \$54,900 | \$34,960.00 | | | | l | | 0 | \$34,960.00 |
| 2027 | 0 | | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 |
| 2028 2029 | 0 | | \$54,900 \$54,900 | \$0.00 \$0.00 | | | | l | | 0 0 | \$0.00 \$0.00 |
| 2029 | 0 | | \$54,900 \$54,900 | \$0.00 \$0.00 | | | | l | | 0 | \$0.00 |
| 2031 | 0 | | \$54,900 | \$0.00 | | | | | | 0 | \$0.00 |
| 2032 | 0 | | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 |
| 2033 | 0 | | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 |
| 2034 | 0 | | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 |
| 2035 | 0 | | \$54,900 | \$0.00 | | | | | | 0 | \$0.00 |
| Total | 564 | | | \$1,082,774.00 | 84 | 36 | 36 | 0 | 0 | 156 | \$1,041,164.00 |

| TNCM after dropouts | 408 | Client SIN | | | |
|---------------------|------------|----------------|--------------|------------------|-----------------|
| 15-17% dropout | 84 | Client name | Individual A | # of Flex mths | |
| | | Year of birth | 1961 | 0 | |
| AYMPE for year* | \$52,440 | Month of birth | 8 | Reduction factor | |
| AMPE | \$2,551.87 | Year of RTR | 2026 | 0.006 /mth | |
| RTR estimate | \$637.97 | Month of RTR | 9 | Increase factor | |
| "Flex" factor | 100.00% | "Flex" factor | 100.00% | 0.007 /mth | |
| flex RTR | \$637.97 | DSB flat-rate | \$471.43 | % dropout factor | |
| | | SVR flat-rate | \$183.93 | 17.0% | |
| DSB Estimate | \$949.91 | | | | |
| >65 SVR Estimate | \$382.78 | CRDO start | May-88 | | AYPE for CRDO 2 |
| <65 SVR Estimate | \$423.17 | CRDO end | May-02 | | \$24,608.50 |

Note: AYMPE is 3-year average pre-1998, 4-year average for 1998 and 5-year average post-1998. Note: Shaded area above (if any) indicates period subject to DUPE (credit split)

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| | | | | | | Number | of dropout | month | าร | Total mths | APE | 1 |
|--------------|--------------|----------------------|----------------------|----------------------------|---------|--------|------------|-------|---------|------------|----------------------------|-------------|
| Year | Contrib mths | UPE | YMPE | APE | 15-17% | CRDO 1 | CRDO 2 | DSB | over 65 | dropout | after dropout | |
| 1966 | 0 | | \$5,000 | \$0.00 | | | | | | 0 | \$0.00 | |
| 1967 1968 | 0 | | \$5,000 \$5,100 | \$0.00 \$0.00 | | | | | | 0 0 | \$0.00 \$0.00 | |
| 1969 | 0 | | \$5,100 | \$0.00 | | | | | | 0 | \$0.00 | |
| 1970 | 0 | | \$5,300 | \$0.00 | | | | | | 0 | \$0.00 | |
| 1971 | 0 | | \$5,400 | \$0.00 | | | | | | 0 | \$0.00 | |
| 1972 | 0 | | \$5,500 | \$0.00 | | | | | | 0 | \$0.00 | |
| 1973 1974 | 0 | | \$5,600 \$6,600 | \$0.00 \$0.00 | | | | | | 0 0 | \$0.00 \$0.00 | |
| 1975 | 0 | | \$7,400 | \$0.00 | | | | | | 0 | \$0.00 | |
| 1976 | 0 | | \$8,300 | \$0.00 | | | | | | 0 | \$0.00 | |
| 1977 | 0 | | \$9,300 | \$0.00 | | | | | | 0 | \$0.00 | |
| 1978 | 0 | | \$10,400 | \$0.00 | | | | | | 0 | \$0.00 | |
| 1979 1980 | 4 12 | \$2,960 | \$11,700 | \$13,267.00 \$23,238.00 | | | | | | 0 | \$13,267.00 \$23,238.00 | \$39,801.00 |
| 1981 | 12 | \$5,805 \$2,335 | \$13,100 \$14,700 | \$8,330.00 | 12 | | | | | 12 | \$0.00 | |
| 1982 | 12 | \$0 | \$16,500 | \$0.00 | 12 | | | | | 12 | \$0.00 | |
| 1983 | 12 | \$0 | \$18,500 | \$0.00 | 12 | | | | | 12 | \$0.00 | |
| 1984 | 12 | \$3,350 | \$20,800 | \$8,446.00 | 12 | | | | | 12 | \$0.00 | |
| 1985 | 12 | \$0 | \$23,400 | \$0.00 | 12 | | | | | 12 | \$0.00 | |
| 1986 1987 | 12 12 | \$8,243 \$25,900 | \$25,800 \$25,900 | \$16,754.00 \$52,440.00 | | | | l | | 0 0 | \$16,754.00 \$52,440.00 | |
| 1988 | 12 | \$12,460 | \$26,500 | \$24,657.00 | | | 8 | l | | 8 | \$8,219.00 | |
| 1989 | 12 | \$0 | \$27,700 | \$0.00 | | 12 | | l | | 12 | \$0.00 | |
| 1990 | 12 | \$0 | \$28,900 | \$0.00 | | 12 | | | | 12 | \$0.00 | |
| 1991 | 12 | \$5,349 | \$30,500 | \$9,197.00 | | 10 | 12 | l | | 12 | \$0.00 | |
| 1992 1993 | 12 12 | \$0 \$7,206 | \$32,200 \$33,400 | \$0.00 \$11,314.00 | | 12 | 12 | l | | 12 12 | \$0.00 \$0.00 | |
| 1994 | 12 | \$13,841 | \$33,400 | \$21,099.00 | | | 12 | l | | 12 | \$0.00 | |
| 1995 | 12 | \$18,758 | \$34,900 | \$28,185.00 | | | 12 | | | 12 | \$0.00 | |
| 1996 | 12 | \$21,169 | \$35,400 | \$31,359.00 | | | 12 | | | 12 | \$0.00 | |
| 1997 | 12 | \$29,699 | \$35,800 | \$43,503.00 | | | | | | 0 | \$43,503.00 | |
| 1998 1999 | 12 12 | \$28,338 \$33,746 | \$36,900 \$37,400 | \$40,272.00 \$47,317.00 | | | | | | 0 0 | \$40,272.00 \$47,317.00 | |
| 2000 | 12 | \$37,600 | \$37,400 | \$52,440.00 | | | | | | 0 | \$52,440.00 | |
| 2001 | 12 | \$36,095 | \$38,300 | \$49,421.00 | | | | | | 0 | \$49,421.00 | |
| 2002 | 12 | \$35,982 | \$39,100 | \$48,258.00 | | | | | | 0 | \$48,258.00 | |
| 2003 | 12 | \$37,458 | \$39,900 | \$49,231.00 | | | | | | 0 | \$49,231.00 | |
| 2004 | 12 | \$23,252 | \$40,500 | \$30,107.00 | 10 | | | | | 0 | \$30,107.00 | |
| 2005 2006 | 12 12 | \$0 \$8,765 | \$41,100 \$42,100 | \$0.00 \$10,918.00 | 12 7 | | | | | 12 7 | \$0.00 \$4,549.17 | |
| 2007 | 12 | \$19,200 | \$43,700 | \$23,040.00 | | | | | | 0 | \$23,040.00 | |
| 2008 | 12 | \$44,900 | \$44,900 | \$52,440.00 | | | | | | 0 | \$52,440.00 | |
| 2009 | 12 | \$46,300 | \$46,300 | \$52,440.00 | | | | | | 0 | \$52,440.00 | |
| 2010 | 12 | \$47,200 | \$47,200 | \$52,440.00 | | | | | | 0 | \$52,440.00 | |
| 2011 2012 | 12 12 | \$48,300 \$50,100 | \$48,300 \$50,100 | \$52,440.00 \$52,440.00 | | | | | | 0 0 | \$52,440.00 \$52,440.00 | |
| 2012 | 12 | \$51,100 | \$51,100 | \$52,440.00 | | | | l | | 0 | \$52,440.00 | |
| 2014 | 12 | \$37,984 | \$52,500 | \$37,941.00 | | | | l | | 0 | \$37,941.00 | |
| 2015 | 12 | \$53,600 | \$53,600 | \$52,440.00 | | | | | | 0 | \$52,440.00 | |
| 2016 | 12 | \$54,900 | \$54,900 | \$52,440.00 | | | | l | | 0 | \$52,440.00 | |
| 2017 2018 | 12 12 | \$54,900 \$54,900 | \$54,900 \$54,900 | \$52,440.00 \$52,440.00 | | | | | | 0 0 | \$52,440.00 \$52,440.00 | |
| 2019 | 12 | \$54,900 | \$54,900 | \$52,440.00 \$52,440.00 | | | | l | | 0 | \$52,440.00 \$52,440.00 | |
| 2020 | 12 | \$54,900 | \$54,900 | \$52,440.00 | | | <u> </u> | | | 0 | \$52,440.00 | |
| 2021 | 12 | \$54,900 | \$54,900 | \$52,440.00 | | | | | | 0 | \$52,440.00 | |
| 2022 | 12 | \$54,900 | \$54,900 | \$52,440.00 | | | | l | | 0 | \$52,440.00 | |
| 2023 2024 | 12 12 | \$54,900 \$54,900 | \$54,900 \$54,900 | \$52,440.00 \$52,440.00 | | | | l | | 0 0 | \$52,440.00 \$52,440.00 | |
| 2024 | 12 | \$54,900 | \$54,900 | \$52,440.00 \$52,440.00 | | | | l | | 0 | \$52,440.00 \$52,440.00 | |
| 2026 | 8 | \$54,900 | \$54,900 | \$34,960.00 | | | | | | 0 | \$34,960.00 | 1 |
| 2027 | 0 | | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 | |
| 2028 | 0 | | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 | |
| 2029 2030 | 0 | | \$54,900 \$54,900 | \$0.00 \$0.00 | | | | l | | 0 0 | \$0.00 \$0.00 | |
| 2031 | 0 | | \$54,900 | \$0.00 | | | | - | | 0 | \$0.00 | 1 |
| 2032 | 0 | | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 | |
| 2033 | 0 | | \$54,900 | \$0.00 | | | | | | 0 | \$0.00 | |
| 2034 | 0 | | \$54,900 | \$0.00 | | | | l | | 0 | \$0.00 | |
| 2035 | 0 | | \$54,900 | \$0.00 | 70 | 20 | 60 | _ | C | 0 | \$0.00 | 1 |
| Total | 564 | | | \$1,607,174.00 | 79 | 36 | 68 | 0 | 0 | 183 | \$1,466,437.17 | IJ |

| TNCM after dropouts | 381 | Client SIN | | | |
|---------------------|------------|----------------|--------------|------------------|-----------------|
| 15-17% dropout | 79 | Client name | Individual A | # of Flex mths | |
| | | Year of birth | 1961 | 0 | |
| AYMPE for year* | \$52,440 | Month of birth | 8 | Reduction factor | |
| AMPE | \$3,848.92 | Year of RTR | 2026 | 0.006 /mth | |
| RTR estimate | \$962.23 | Month of RTR | 9 | Increase factor | |
| "Flex" factor | 100.00% | "Flex" factor | 100.00% | 0.007 /mth | |
| flex RTR | \$962.23 | DSB flat-rate | \$471.43 | % dropout factor | |
| | | SVR flat-rate | \$183.93 | 17.0% | |
| DSB Estimate | \$1,193.10 | | | | |
| >65 SVR Estimate | \$577.34 | CRDO start | May-88 | | AYPE for CRDO 2 |
| <65 SVR Estimate | \$544.77 | CRDO end | May-02 | | \$36,526.68 |

Note: AYMPE is 3-year average pre-1998, 4-year average for 1998 and 5-year average post-1998. Note: Shaded area above (if any) indicates period subject to DUPE (credit split)