

1 **Q. Reference Evidence of Laurence Booth dated September 25, 2018**

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3 **Page 5, lines 11-12: Please explain in detail the basis for the 3.8% trigger for**
4 **the forecast long Canada bond yield.**

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6 **A. Dr. Booth's answer to PUB-CA-001 in 2016 continues to reflect his judgment today,**
7 **subject to his current misgivings expressed in the current PUB-CA-001. For**
8 **completeness, the answer from 2016 is reproduced below.**

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10 *“Risk Premium models assume an investor trading off risk versus return, so that the*
11 *expected return on equities and the risk free rate are determined in a capital market*
12 *equilibrium, where the return on a Government of Canada security is the risk free rate.*
13 *However, it has become increasingly clear that government bond yields are not being set*
14 *by ordinary investors trading off risk versus return, but by what RBC terms the global*
15 *policy maker. As Dr. Booth explains in his testimony on pages 19-24 it is central bank*
16 *intervention in the major capital markets in Europe, the UK, Japan and the US that are*
17 *determining long bond yields.*

18
19 *To determine the extent to which government intervention elsewhere has affected long*
20 *term bond yields in Canada, Dr. Booth uses the preferred stock yield as a proxy.*
21 *Dividends in Canada receive preferential tax treatment through the dividend tax credit.*
22 *However, the dividend tax credit is not extended to foreign investors, such that the*
23 *preferred share market is predominantly a Canadian market. As a result, the spread of*
24 *the preferred share yield over that for long Canada bonds versus the spread of the A*
25 *bond yield over long Canada bonds is indicative of the extent to which the Canadian*
26 *bond market has been affected by the global policy maker.*

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28 *In Dr. Booth's 2012 NP testimony he showed that the preferred share spread compared*
29 *to the A bond yield spread had widened significantly. At that time Dr. Booth estimated*
30 *what he termed the effect of “Operation Twist,” which was the US government bond*
31 *buying program at 0.80% and increased the 3.0% forecast long Canada bond yield*
32 *accordingly. He also recommended that the Board's automatic ROE adjustment*
33 *mechanism operate with a 3.8% floor while the Board accepted 3.8% as the forecast long*
34 *Canada bond yield.*

35
36 *Currently the consensus forecast for long Canada bond yields is even lower than at that*
37 *time at 2.81%, while the preferred dividend yield spread has increased and been*
38 *extremely volatile through 2015. Dr. Booth would therefore maintain his*
39 *recommendation that a 3.8% long Canada bond yield is a minimum value consistent*
40 *with investors trading off risk versus expected returns at this stage in the business cycle.*
41 *Note in the AON Hewitt capital market outlook provided by NP in answer to CA-NP-*
42 *269 they place their current target long Canada bond yield at 4.18%. He would regard*
43 *AON-Hewitt's target rate as equivalent to a normal rate. “*