

Educational Note

Performance of DCAT in 2017 for Life and Health Insurers Document 217018 This document was archived April 11, 2023



Educational Note



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Members should be familiar with educational notes. Educational notes describe but do not recommend practice in illustrative situations. They do not constitute standards of practice and are, therefore, not binding. They are, however, intended to illustrate the application (but not necessarily the only application) of the Standards of Practice, so there should be no conflict between them. They are intended to assist actuaries in applying standards of practice in respect of specific matters. Responsibility for the manner of application of standards of practice in specific circumstances remains that of the members.



MEMORANDUM

To: Members in the life insurance area

From: Pierre Dionne, Chair

Practice Council

Marco Fillion, Chair

Committee on Risk Management and Capital Requirements

Date: February 9, 2017

Subject: Educational Note: Performance of DCAT in 2017 This and Health Insurers

Contract Liabilities The CIA educational note Guidance for the 2016 Valuation of Life Insurers (August 2016) provided guidance to act rming their Dynamic Capital Adequacy Testing (DCAT) projections for 2016 on fiscal year 2015). Given that the Life Insurance Capital Adequacy Test (LICAT) the Office of the Superintendent of Financial Institutions (OSFI) and the Life and Health Insurance (CARLI) (English version so vailable) guideline of the Autorité des marchés financiers (AMF), and togethe refe red as LICAT in this educational note, were not final at the time, Appointed Actua we e not yet in a position to perform their 2016 DCAT projections on this new bas dence, continuing to perform the 2016 DCAT using OSFI's Minimum Continui g Capital ad Surplus Requirements (MCCSR) and the AMF's Capital Adequacy Requirements (CAR), and together referred to as MCCSR in this educational note, was ar actice.

The educational note at vise. The ponce the final LICAT guideline was available, the Committee on Risk Management and Capital Requirements (CRMCR) would provide additional guidance for CAM reporting. The new LICAT guideline is now available and will replace the MCCSR Crective January 1, 2018.

The purpose of this educational note is to provide actuaries performing DCAT with guidance in the application of the LICAT guideline only for the DCAT report issued in 2017 based on fiscal year 2016 (2017 DCAT).

Addressing LICAT in the 2017 DCAT is necessary for the following reasons:

- The LICAT guideline is final and public;
- The LICAT guideline is meant to produce more representative capital requirements than the MCCSR;
- The MCCSR is no longer applicable to projection years 2018 and beyond in the DCAT analysis, and DCAT based on LICAT is essential to the board and the chief agent going forward; and

• Going forward, the regulators are concerned about situations where companies would have adequate MCCSR ratios but inadequate LICAT ratios.

In performing the 2017 DCAT, the actuary would consider the following topics covered herein:

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Other relevant guidance

Revised Educational Note: Dynamic Capital Adequacy Testin (November 2013).

In accordance with the Canadian Institute of Ctuan, of CIA) Policy on Due Process for the Approval of Guidance Material Other than Standards of Practice and Research Documents, this educational note has been prepared by the CKMCR, and has received final approval for distribution by the Practice Council on Programy 3, 2017.

As outlined in subsection 1220 of the Standards of Practice, "The actuary should be familiar with relevant Educational Notes and other designated educational material." That subsection explains further that a practice that the Educational Notes describe for a situation is not necessarily the subsection practice for that situation and is not necessarily accepted actualial practice for a different situation." As well, "Educational Notes are intended to practice the application (but not necessarily the only application) of the standards, so the e should be no conflict between them."

Questions or comments regarding this educational note may be directed to Marco Fillion at marco.fillion@pwc.com.

PD, MF

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1. Introduction

The purpose of this educational note is to provide actuaries performing Dynamic Capital Adequacy Testing (DCAT) with guidance in the application of the Life Insurance Capital Adequacy Test (LICAT) guideline only for the DCAT report issued in 2017 based on fiscal year 2016 (2017 DCAT).

Addressing LICAT in the 2017 DCAT is necessary for the following reasons:

- The LICAT guideline is final and public;
- The LICAT guideline is meant to produce more representative capital requirements than the Minimum Continuing Capital and Surplus Requirements (MCCSR);
- The MCCSR is no longer applicable to projection years 2018 and beyond in the DCAT analysis, and DCAT based on LICAT is essential to the board and the chief agent going forward; and
- Going forward, the regulators are concerned about siduation, whole companies would have adequate MCCSR ratios but inadequate LICAL ratios.

This educational note provides actuaries performing DCAT for Life & Health insurers with guidance in the application of the LICAT guideline only for the DCAT report issued in 2017.

2. Approximations

201 insurers may not have the Given that the final guideline was released late capability to embed Life Insurance Capital quacy Test (LICAT)/Capital Adequacy Requirements for Life and Health In drance (CARLI) (English version available soon) into a Dynamic Capital Adequacy Testing DCAT) a alysis. In addition, insurers' current LICAT infrastructure may not allow, derstanding of how the LICAT will behave under certain plausible adverse enarios. Therefore, it is reasonable to expect that the manner in which the 2017 D will address the new LICAT guideline may require significant approxima to sand adgment. For instance, the actuary could conclude that as a may not be necessary based on testing and analysis projections on a LICAT performed, provide a qualitative discussion of the impact on a LICAT basis, and discuss the testing and analysis performed to reach the appropriate conclusions, recommendations and opinion on financial condition.

The actuary may refer to paragraph 1130.13, and subsections 1340 and 1510 of the Standards of Practice for further guidance on the use of approximations.

3. Application of the new regulatory capital guidelines

Since this is a significant change, the actuary would provide adequate information on the LICAT guideline such that the audience to which the DCAT report is presented (senior management, the board or the chief agent) is aware of key potential implications resulting from the change in regulatory requirement and how that change impacts the insurer's management and reporting of its regulatory capital, the insurer's internal capital targets

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and operational targets¹ and their drivers. The extent of the information would depend on the level of education and reporting already communicated in separate presentations and discussions.

The manner in which the actuary addresses regulatory capital requirements in DCAT projections may vary significantly between insurers depending on the level of readiness of insurers' actuarial systems, the impact of the new guidelines on the insurer's regulatory capital levels, and related sensitivities to the risks covered in the guideline. The actuary would also consider that management and regulators are concerned about situations where companies would have adequate MCCSR/Capital Adequacy Requirements (CAR) ratios but inadequate LICAT ratios going forward. Therefore, depending on the specific facts and circumstances of the insurer, it is possible that the actuary could conclude that scenario testing under MCCSR for the 2017 projection year is not necessary, and scenario testing only on a LICAT basis is sufficient for the purpose of providing an opinion on the financial condition. It is also possible, as discussed in section 2, the tuary could the a conclude that DCAT scenarios under LICAT are not necessary n 6 Re ults Analysis contains further discussion on results analysis.

Regulators are contemplating the possibility of a period over which regulatory capital would transition from MCCSR requirements to LICAT requirements. The actuary's consideration of the transition requirement in the DEAT at alysis would depend, among other factors, on what is actually known of the requirement at the time the DCAT is performed.

4. New guideline discount rate

If the actuary's DCAT modeling utilities the LCAS's ultimate interest rate (UIR) used in the interest rate risk calculation and the discount rates used in insurance risk calculations, the UIR and the discount rates used in insurance risk calculations would be kept level throughout the projection period, these guidance is provided by regulators in time for the 2017 DCAT. This is in line with the Office of the Superintendent of Financial Institutions (OSFI)/l'Autorité des narchés financiers' (AMF) desire to have a stable capital environment and reflects the current accrtainty on the process used to reset the rate. When testing LICAT requirements for interest rate risk under an adverse scenario, adjustments to the risk-free spot rates and spreads from 0 to 20 and interpolation from year 20 to 70 would be required, while keeping the UIR unchanged.

5. Recent and current financial position

Section 4 – Reporting, of the DCAT <u>Revised Educational Note: Dynamic Capital Adequacy Testing</u> (November 2013), indicates that the report include a "Review of recent and current financial position". This would include the applicable regulatory tests of capital adequacy of recent years.

Although LICAT is not applicable until 2018, the actuary may want to provide relevant available LICAT historical information or estimates to give context to senior management,

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¹ OSFI's <u>Guideline A-4 Regulatory Capital and Internal Capital Targets</u> and AMF's <u>Capital Management Guideline</u>.

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the board or the chief agent. The actuary could show the estimated LICAT results at 2015 and 2016 year-end beside the actual results of the MCCSR. The OSFI/AMF test run #1 due in January 2017 would be a useful source for the 2015 year-end LICAT information. It would not be necessary to provide results for years prior to 2015 year-end.

6. Results analysis

A satisfactory financial condition would be met if the DCAT satisfactory condition criteria are met under MCCSR in projection year 2017, and under LICAT in subsequent years. As discussed in sections 2 and 3, the actuary may be satisfied that projections on a LICAT basis are not necessary based on sufficient and appropriate testing and analysis. In this latter case, a satisfactory financial condition would be met if the DCAT satisfactory condition criteria are met under MCCSR in all years.

As per the current 2013 Revised DCAT educational note, appropriate discussion of the results would occur. There would be ongoing focus on the implications of the new guidelines, and the depth of the discussion would depend on the iming of the report and the insurer's ability to approximate the LICAT ratios considering the mile cones achieved against what was in the LICAT implementation plan filed with regulators. The discussion could include results under each regulatory capital guideline, as appropriate, and the implication of those results to the insurer, such as the risks it was be exposed to in 2018 and how this may shape recommended management as ticks in the DCAT report.

7. Draft LICAT educational note

The Actuarial Standards Board has issued Waice Standards of Practice to Incorporate Changes Negated as a Sesult of the New Capital Standard (document 216102). LICAT will require changes to the Canadian actuarial Standards of Practice (SOP) to ensure that albeefs ences to capital in the SOP use terminology consistent with the new capital standard. In addition, an educational note will be published to provide supplementary guidance for requaries.

If applicable to the lever a suppreximation used in the projection of regulatory capital in the DCAT scenarios, the actury would perform a DCAT analysis consistent with the revisions to the SOP and the supplementary guidance provided in the LICAT educational note. If the final SOP and LICAT educational note have not been published at the time the actuary conducts the DCAT analysis, consideration would instead be given to the current draft of the documents. Consistent with the 2013 revised DCAT educational note, when the final documents are published, the actuary would not be required to re-perform the DCAT analysis unless the final guidance results in material changes that could alter the conclusions of the report.