

Date: 2/25/21

#### Virtual Meeting

#### LIFE RISK-BASED CAPITAL (E) WORKING GROUP Friday, February 26, 2021 12:00 p.m. ET / 11:00 a.m. CT / 10:00 a.m. MT / 9:00 a.m. PT

#### **ROLL CALL**

Philip Barlow, Chair	District of Columbia	John Robinson	Minnesota
Jennifer Li	Alabama	William Leung	Missouri
Thomas Reedy	California	Rhonda Ahrens	Nebraska
Deborah Batista/Eric Unger	Colorado	Seong-min Eom	New Jersey
Wanchin Chou	Connecticut	Bill Carmello	New York
Sean Collins	Florida	Andy Schallhorn	Oklahoma
Vincent Tsang	Illinois	Mike Boerner/Rachel Hemphill	Texas
Mike Yanacheak/Carrie Mears	Iowa	Tomasz Serbinowski	Utah

NAIC Support Staff: Dave Fleming

#### **AGENDA**

- 1. Consider Adoption of Requested Mortgage Reporting Guidance Update—Philip Barlow (DC)
  - American Council of Life Insurers (ACLI)/Mortgage Bankers Association (MBA) Comment Letter
     Modification of Original Guidance Document
     Modification as a New Document
     Attachment 2
     Attachment 3
- 2. Continue Discussion of the ACLI's Real Estate Proposal—Philip Barlow (DC)

Attachments 4&5

- 3. Discuss Any Other Matters Brought Before the Working Group—*Philip Barlow (DC)*
- 4. Adjournment

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Paul S. Graham III SVP, Policy Development MORTGAGE BANKERS ASSOCIATION

Mike Flood SVP, CMF, Policy & Member Engagement

February 18, 2021

Philip A. Barlow, FSA, MAAA Chair, Life Risk-Based Capital (E) Working Group National Association of Insurance Commissioners 1100 Walnut Street, Suite 1500 Kansas City, MO 64106-2197

RE: Exposure of Revised RBC Reporting Guidance

Dear Mr. Barlow and Working Group Members:

The Mortgage Bankers Association<sup>1</sup> and the American Council of Life Insurers<sup>2</sup> appreciate that the Life Risk-Based Capital Working Group (LRBCWG) has exposed draft *Additional Guidance* on the Financial Condition (E) Committee's *Guidance for Troubled Debt Restructurings* (RBC Guidance) that would align the RBC Guidance modification period with that of *INT 20-03*, *Restructuring Due to COVID -19*, and *INT 20-07*, *INT 20-07*: *Troubled Debt Restructuring of Certain Debt Instruments Due to COVID-19*, as those interpretations were revised by the Statutory Accounting Principles Working Group (SAPWG) on January 25, 2021.

We believe that either of the two exposures would effectively align the E Committee's RBC reporting guidance with the corresponding accounting guidance consistent with our organization's request to this Working Group of January 29, 2021.

As between the two of them, we believe Alternative 1, which provides the guidance in the form of a revision to the October 9, 2020 Additional Guidance may be more user-friendly because it provides all

<sup>&</sup>lt;sup>1</sup> The Mortgage Bankers Association (MBA) is the national association representing the real estate finance industry, an industry that employs more than 280,000 people in virtually every community in the country. Its membership of over 2,300 companies includes all elements of real estate finance: mortgage companies, mortgage brokers, commercial banks, credit unions, thrifts, REITs, Wall Street conduits, 70 life insurance companies engaged in real estate finance, and others in the mortgage lending field. For additional information, visit MBA's website: www.mba.org.

<sup>&</sup>lt;sup>2</sup> The American Council of Life Insurers (ACLI) is the leading trade association driving public policy and advocacy on behalf of the life insurance industry. 90 million American families rely on the life insurance industry for financial protection and retirement security. ACLI's member companies are dedicated to protecting consumers' financial wellbeing through life insurance, annuities, retirement plans, long-term care insurance, disability income insurance, reinsurance, and dental, vision and other supplemental benefits. ACLI's 280 member companies represent 95 percent of industry assets in the United States. Learn more at <a href="https://www.acli.com">www.acli.com</a>

four elements of the Additional Guidance in one document.<sup>3</sup> Showing both the original and revision dates would help insurers know that they are using the correct version of the guidance. In contrast, Alternative 2 would add a fourth document to the body of E Committee RBC reporting guidance (which currently includes the June 12, 2020 E Committee memo, the June 12, 2020 Q&A document, and the October 8, 2020 Additional Guidance).<sup>4</sup>

On the other hand, Alternative 2 has the benefit of explicitly linking the period covered by the RBC reporting guidance and INT 20-03 and 20-07, which would remove the need for this Working Group to further revise the Additional Guidance in the future if INT 20-03 and INT 20-07 were amended in the future. To capture this benefit, the Working Group might consider adopting Alternative 1 but with the Alternative 2 revision to Origination Date, Valuation Date, Property Value, and 90 Days Past Due.<sup>5</sup>

We appreciate the time and attention you, the members of the Working Group, and Dave Fleming have devoted to this matter.

Respectfully,

Mike Flood

Paul S. Graham, III

cc: Dave Fleming, NAIC Senior Insurance Reporting Analyst

<sup>&</sup>lt;sup>3</sup> As a technical comment, we would suggest deleting "for December 31, 2020 and Interim" from the "RE" line of the memorandum, because the revised Origination Date, Valuation Date, Property Value, and 90 Days Past Due and the Net Operating Income sections apply to other reporting periods. We note that each paragraph of the guidance independently specifies the period it covers.

<sup>&</sup>lt;sup>4</sup> As a technical comment, we would suggest adding ", 2020" after each reference to the October 9 guidance or document. Similarly, we would suggest also adding ", 2020" after "June 12" in the first paragraph of Alternative 1.

<sup>&</sup>lt;sup>5</sup> This adaptation might be accomplished as follows: "For purposes of the Description/explanation of item in the Risk-Based Capital Reporting Instructions for Date of Origination (2), Property Value (20), Year of Valuation (21 and by reference Quarter of Valuation - 22), and 90 Days Past Due? (29), no changes to these values are required for any COVID-19 related modifications that <u>are captured within INT 20-03: Troubled Debt Restructuring Due to COVID-19 or INT 20-07: Troubled Debt Restructuring of Certain Debt Instruments Due to COVID-19."</u>



To: All Insurers

From: Life Risk-Based Capital (E) Working Group

RE: Guidance for Troubled Debt Restructurings for December 31, 2020 and Interim Risk-Based Capital

Filings (where required)

Date: October 9, 2020, Revised February 11, 2021

#### Additional Guidance Adopted by the Life Risk-Based Capital Working Group

The Financial Condition (E) Committee delegated to the Life Risk-Based Capital (E) Working Group certain questions that arose as part of its June 12 memorandum. Under that delegation, the Working Group adopted the following guidance.

#### **Construction Loans**

For purposes of Note 4 to the Risk-Based Capital Reporting Instructions, government-mandated construction delays due to COVID-19 that occur at any time during 2020 are not "construction issues." This guidance would apply to all mortgages and not just those mortgages where a COVID-19 modification occurred.

#### Origination Date, Valuation Date, Property Value, and 90 Days Past Due

For purposes of the Description/explanation of item in the Risk-Based Capital Reporting Instructions for Date of Origination (2), Property Value (20), Year of Valuation (21 and by reference Quarter of Valuation - 22), and 90 Days Past Due? (29), no changes to these values are required for any COVID-19 related modifications that occur during the period ending on the earlier of January 1, 2022 or the date that is 60 days after the date on which the national emergency concerning the novel coronavirus disease (COVID-19), outbreak declared by the President on March 13, 2020 under the National Emergencies Act terminates 2020. This guidance is consistent with the Financial Condition (E) Committee Guidance for Troubled Debt Restructurings for March 31 - September 30 Statutory Financial Statements and Related Interim Risk-Based Capital Filings (where required) (June 12, 2020) and Question and Answer issued by the NAIC but extended for COVID-19 modifications that occur through the end of the period described above 2020.

#### **Contemporaneous Property Values**

For purposes of computing the Contemporaneous Property Value (40) for any period ending in 2020, an insurer may use the average of the NCREIF Price Index as of 12/31/2019 and the 2020 NCREIF Price Index for the Price Index current value. This guidance applies to all mortgages and not just those mortgages where a COVID-19 modification occurred, and it applies for the filings for any period ending in 2020 only and not subsequent years.

#### **Net Operating Income**

For purposes of the NOI inputs at (14), (15), (16), and the computation of a Rolling Average NOI at (36), an insurer may report 2020 NOI (i.e., NOI for any 12-month fiscal period ending after June 30, 2020 but not later than June 30, 2021) as the greater of: (1) actual NOI as determined under the CREF-C IRP Standards or (2) 85% of NOI determined for the immediate preceding fiscal year's annual report. This guidance with respect to 2020 NOI applies to the application of the 2020 NOI in risk-based capital reporting for 2021, 2022, and 2023. In cases where an insurer reports 85% of 2019 NOI as the 2020 NOI input, the insurer should retain information about actual 2020 NOI in its workpapers so that the information can be readily available to regulators.

#### **Related Accounting Guidance & Updates**

Please see the following for both related accounting guidance and updates to this guidance via Q&A. <a href="https://content.naic.org/cmte\_e\_lrbc.htm">https://content.naic.org/cmte\_e\_lrbc.htm</a>

(Please see related documents tab)

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CENTRAL OFFICE • 1100 Walnut Street, Suite 1500 • Kansas City, MO 64106-2197	p   816 842 3600	f   816 783 8175
CAPITAL MARKETS & INVESTMENT ANALYSIS OFFICE • One New York Plaza, Suite 4210 • New York, NY 10004	p   212 398 9000	f   212 382 4207

**Questions**Any questions on this guidance should be directed to Dave Fleming by e-mail at dfleming@naic.org.



To: All Insurers

Date:

From: Life Risk-Based Capital (E) Working Group

RE: Additional Guidance for Troubled Debt Restructurings for December 31, 2020 and Interim Risk-Based

Capital Filings (where required)
October 9, 2020 February 11, 2021

#### Additional Guidance Adopted by the Life Risk-Based Capital Working Group

In response to action taken by Tthe Financial ConditionStatutory Accounting Principles (E) Committee Working Group delegated to the Life Risk-Based Capital (E) Working Group certain questions that arose as part of its June 12 memorandum. which addressed modification of the original CARES Act to extend the provisions for temporary relief from troubled debt restructurings Under that delegation, the Working Group adopted the following modification to its October 9 -guidance. This modified guidance is to address only the category shown as the remainder of the October 9 document is unchanged.

#### **Construction Loans**

For purposes of Note 4 to the Risk-Based Capital Reporting Instructions, government-mandated construction delays due to COVID-19 that occur at any time during 2020 are not "construction issues." This guidance would apply to all mortgages and not just those mortgages where a COVID-19 modification occurred.

#### Origination Date, Valuation Date, Property Value, and 90 Days Past Due

For purposes of the Description/explanation of item in the Risk-Based Capital Reporting Instructions for Date of Origination (2), Property Value (20), Year of Valuation (21 and by reference Quarter of Valuation - 22), and 90 Days Past Due? (29), no changes to these values are required for any COVID-19 related modifications that are captured within INT 20-03: Troubled Debt Restructuring Due to COVID-19 or INT 20-07: Troubled Debt Restructuring of Certain Debt Instruments Due to COVID-19. occur during 2020. This guidance is consistent with the Financial Condition (E) Committee Guidance for Troubled Debt Restructurings for March 31 - September 30 Statutory Financial Statements and Related Interim Risk-Based Capital Filings (where required) (June 12, 2020) and Question and Answer issued by the NAIC but extended for COVID-19 modifications that occur through the end of 2020.

#### **Contemporaneous Property Values**

For purposes of computing the Contemporaneous Property Value (40) for any period ending in 2020, an insurer may use the average of the NCREIF Price Index as of 12/31/2019 and the 2020 NCREIF Price Index for the Price Index current value. This guidance applies to all mortgages and not just those mortgages where a COVID-19 modification occurred, and it applies for the filings for any period ending in 2020 only and not subsequent years.

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#### **Related Accounting Guidance & Updates**

Please see the following for both related accounting guidance and updates to this guidance via Q&A. <a href="https://content.naic.org/cmte">https://content.naic.org/cmte</a> e lrbc.htm

(Please see related documents tab)

#### **Questions**

Any questions on this guidance should be directed to Dave Fleming by e-mail at dfleming@naic.org.

#### Capital Adequacy (E) Task Force RBC Proposal Form

] C3 Phase II/ AG43 (E/A) Subgroup	[ ] P/C RBC (E) Working Group	[ ] Longevity Risk (A/E) Subgroup
1 C2 Phase II/ ACA2 (E/A) Subgroup	P/C RBC (E) Working Group	[ ] Langavity Diele (A/E) Subgroup
] Catastrophe Risk (E) Subgroup	[ ] Investment RBC (E) Working Group	[ ] Operational Risk (E) Subgroup
] Capital Adequacy (E) Task Force	[ ] Health RBC (E) Working Group	[ ] Life RBC (E) Working Group

	<b>DATE: <u>February 26, 2021</u></b>	FOR NAIC USE ONLY
CONTACT PERSON	Steve Clayburn	Agenda Item#
TELEPHONE:	(202) 624-2197	Year
EMAIL ADDRESS:	steveclayburn@acli.com	DISPOSITION
ON BEHALF OF:	American Council of Life Insurers (ACLI)	[ ] ADOPTED
NAME:	Steve Clayburn	[ ] REJECTED
TITLE:	Senior Actuary, Health Insurance & Reinsurance	[ ] DEFERRED TO
AFFILIATION:	ACLI	[ ] REFERRED TO OTHER NAIC GROU
ADDRESS:		[ ] EXPOSED
ADDRESS.		[ ] OTHER (SPECIFY)

[ ] Health RBC Blanks	[ ] Property/Casualty RBC Blanks	[ X ] Life and Fraternal RBC Instructions
[ ] Health RBC Instructions	[ ] Property/Casualty RBC Instructions	[ X ] Life and Fraternal RBC Blanks
[ ] OTHER		

#### **DESCRIPTION OF CHANGE(S)**

To update the RBC calculation for Real Estate to reflect updated experience and analysis since RBC was first developed.

#### REASON OR JUSTIFICATION FOR CHANGE \*\*

When RBC was developed, there was limited experience on the default and loss for commercial real estate. Since then data sources have been compiled and tracked in the industry, and can now be accessed to provide more meaningful analysis and information for development of capital standards.

#### **Additional Staff Comments:**

<sup>\*\*</sup> This section must be completed on all forms.

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#### 1. REAL ESTATE

LR007

Basis of Factors

Companies that have developed their own risk based capital factors for real estate have used a range of factors from 5 percent to 20 percent. One study indicated real estate volatility is about 60 percent of common stock, suggesting a factor in the range of 18 percent. Assuming a full tax effect for losses, a pre tax factor of 15 percent was chosen. Foreclosed real estate would carry a somewhat higher risk at 23 percent pre tax. Schedule BA real estate also has a 23 percent factor pre tax because of the additional risks inherent in owning real estate through a partnership. The pre-tax factors were developed by dividing the post-tax factor by 0.65 (0.65 is calculated by taking 1.0 less 0.35). The pre tax factors are not changing for 2018 due to tax reform. The base factor for equity real estate of [11%] was developed by adding a margin for conservatism to the results of an analysis of real estate performance over the period of 1978 – 2020. The analysis was conducted by a group of life insurance company real estate investment professionals coordinated by the ACLI. The data used was a national database of real property owned by investment fiduciaries and supplemented by data on real estate backing mortgage securities. The analysis is documented in a report to the NAIC dated February 26, 2021. In addition to modifying the factor for company owned and investment real estate, this updated factor will also be used for real estate acquired in satisfaction of debt (Foreclosed real estate). For assets with the characteristics of real held estate (partnership or other structure) reported on Schedule BA, a higher factor is used to account for the lower transparency involved with these structures. Foreclosed real estate is recognized in the statutory statements as having acquisition cost equal to market value at time of foreclosure. Schedule BA real estate was originally given a higher factor under a presumption that it was more highly levered. Analysis has shown these assets to have experience very similar to directly held and will therefore use a modestly higher factor.

While the experience analysis was done based on analysis of fair value impacts, Real Estate is reported at depreciated cost in the Statutory statements. The difference in values impacts the risk to statutory surplus. Therefore, an adjustment is made to the factor based on the difference between fair value and statutory carrying value on a property by property basis. The adjustment is defined as

 $\underline{Adj Factor} = RE Factor*(1 - [factor] * (MV-BVg)/BVg)}$ 

*factor* is [2/3]

The resulting adjusted RBC factor is subject to a minimum of zero. In the RBC calculation, see Figure 7, fair value is taken from Schedule A Column 10 plus encumbrances, or from Schedule BA column 11 plus encumbrances, respectively, while BVg is the net Book Adjusted Carrying Value plus the encumbrance.

Encumbrances have been included in the real estate base since the value of the property is held net of the encumbrance, but the entire value is subject to loss would include encumbrances. Encumbrances receive athe base real estate factor of [11%] reduced by the average factor for commercial mortgages of 1.752 percent pre-tax. In the past this was computed as a base factor applied to the net real estate value plus a separate factor applied to the amount of the encumbrance. Beginning in 2021, the equivalent result will be obtained by applying a base factor to the gross statutory value of the property, and a credit provided for the amount of the encumbrance. for real estate encumbrances not in foreclosure and 20 percent pre tax for real estate encumbrances in foreclosure and encumbrances on Schedule BA real estate.

The final RBC amount is subject to a minimum of the Baa bond factor (1.30%) applied to the BACV, and a maximum of 45% of the BACV.

All references to involuntary reserves as it relates to real estate were removed to comply with the codification of statutory accounting principles.

Specific Instructions for Application of the Formula

#### Column (1)

Calculations are done on an individual property or joint venture basis in the worksheets and then the summary amounts are entered in this column for each class of real estate investment. Refer to the real estate calculation worksheet (Figure 7) for how the individual property or joint venture calculations are completed.

- Line (1) should equal Page 2, Column 3, Line 4.1.
- Line (2) should equal Page 2, inside amount, Line 4.1.
- Line (4) should equal AVR Equity Component Column 1 Line 20.
- Line (5) should equal AVR Equity Component Column 3 Line 20.
- Line (7) should equal AVR Equity Component Column 1 Line 19.
- Line (8) should equal AVR Equity Component Column 3 Line 19.
- Line (14) should equal Schedule BA, Part 1, Column 12, Line 1799999 2199999 plus Line 1899999 2299999, in part.
- Line (15) should equal Schedule BA, Part 1, Column 12, Line 1799999 plus Line 1899999, in part.
- Line (17) should equal AVR Equity Component Column 1 Line 75.
- Line (18) should equal AVR Equity Component Column 1 Line 76.
- Line (19) should equal AVR Equity Component Column 1 Line 77.
- Line (20) should equal AVR Equity Component Column 1 Line 78.
- Line (21) should equal AVR Equity Component Column 1 Line 79.

Low income housing tax credit investments are reported in Column (1) in accordance with SSAP No. 93—Low Income Housing Tax Credit Property Investments.

#### Column (2)

The average factor column is calculated as Column (3) divided by Column (1).

#### Column (3)

Summary amounts are entered for Column (3) based on calculations done on an individual property or joint venture basis. Refer to Column (8) of the real estate calculation worksheet (Figure 7).

#### Line (17)

Guaranteed federal low-income housing tax credit (LIHTC) investments are to be included in Line (17). There must be an all-inclusive guarantee from an ARO-rated entity that guarantees the yield on the investment.

#### Line (18)

Non-guaranteed federal LIHTC investments with the following risk mitigation factors are to be included in Line (18):

- a) A level of leverage below 50 percent. For a LIHTC Fund, the level of leverage is measured at the fund level.
- b) There is a tax credit guarantee agreement from general partner or managing member. This agreement requires the general partner or managing member to reimburse investors for any shortfalls in tax credits due to errors of compliance, for the life of the partnership. For an LIHTC fund, a tax credit guarantee is required from the developers of the lower-tier LIHTC properties to the upper-tier partnership.

#### Line (19)

State LIHTC investments that at a minimum meet the federal requirements for guaranteed LIHTC investments.

#### Line (20)

State LIHTC investments that at a minimum meet the federal requirements for non-guaranteed LIHTC investments.

#### Line (21)

State and federal LIHTC investments that do not meet the requirements of lines (17) through (20) would be reported on Line (21).

(Figure 7)

Real Estate	Works	heet
-------------	-------	------

Encumbrances:

	value adjustment factor [factor] (1)	(2)	(3)	<u>(4)</u>	( <u>5</u> 4)	( <u>6</u> 5)	<u>(7)</u>	( <u>8</u> 6)	( <del>97</del> )	( <u>10</u> 8)
	<u>Description</u>	Book/Adjusted Carrying Value	Encumbrances	Fair Value	Book/Adjusted Carrying ValueBase Factor	Encumbrances credit Factor	Adjusted RBC Factor®	Gross RBC Book/Adjusted Carrying Value	Encumbrances Requirement § Credit	RBC Requirement*
(1)	Company Occupied Real Estate All Properties Without Encumbrances†		XXX		0.1 <u>1</u> 50	XXX		Requirement‡	XXX	
(1) (2) (32) (42)	All Properties With Encumbrances:				0.1 <u>1</u> 50 0.1 <u>1</u> 50	0. <u>0175</u> <del>120</del> 0.0175 <del>0.120</del>				
( <del>43</del> ) (199)	Total Company Occupied Real Estate			:	0.1 <u>1</u> <del>9</del> 0	<u>0.0173</u> <del>0.120</del>				
(1)	Foreclosed Real Estate All Properties Without Encumbrances All Properties		XXX		0. <u>11</u> 230	XXX			XXX	
<u>(1)</u> <u>(2)</u>	Without Encumbrances <sup>†</sup> All Properties With									
<u>(3)<del>(2</del></u>	Encumbrances: All Properties With Encumbrances:				0. <u>11<del>23</del></u> 0	<u>0.0175</u> <del>0.200</del>				
) (4)(3 )					0. <u>11</u> 230	<u>0.0175</u> <del>0.200</del>				
(299)	) Total Foreclosed Real Estate			:						
<del>(1)</del>	Investment Real Estate All Properties Without Encumbrances† All Properties Without Encumbrances†		XXX		0. <u>11</u> 150	XXX			XXX	
(1) (2)				· ·						
	All Properties With Encumbrances: All Properties With									

(3) <del>(2</del>		0. <u>11</u> <del>15</del> 0	<u>0.0175</u> <del>0.120</del>		Attachment 4
) (4)(3		0. <u>11</u> <u>15</u> 0	0.01750.120	 	
(399) Total Investment Real Estate  Total Real Estate (Line (199) + (499) Line (299) + Line (399))					
Schedule BA Assets with  characteristics of Real Estate  (1) All Assets Without  Encumbrances † All Joint Ventures  w/o Encumbrances †	XXX	0. <u>12<del>23</del></u> 0	xxx	XXX	
(1) (2) All Assets With Encumbrances:All				- - -	
Properties With Encumbrances: (3)(2)		0. <u>12<del>23</del></u> 0	0.0175 <mark>0.200</mark>	 	
(899) Total Schedule BA Real Estate		0. <u>12<del>23</del></u> 0	<u>0.0175</u> <del>0.200</del>		

Note that column (2) is the book/adjusted carrying value net of any encumbrances, while column (4) is the fair value of the property not reduced for any encumbrances.

<sup>†</sup> For each category, each property Line (1) should also exclude properties or joint ventures that have a negative book/adjusted carrying value. These should be listed individually, including those for which there is no encumbrance.

<sup>&</sup>amp; Column (7) is Column (5) times (1-(factor) \* (Column (4) – (Column (2) + Column (3))) / (Column (2) + Column (3)))

<sup>‡</sup> Column (86) is calculated as (Column (2) plus Column (3)) multiplied by Column (74).

<sup>§</sup> Column (97) is calculated as Column (3) multiplied by Column (65).

<sup>\*</sup> Column (108) is calculated as the sum of Column (86) minusplus Column (97), but not less than zero or more than Column (2). 1.3% nor more than 45% of column (2), and not less than zero.

# Proposal Risk Based Capital for Real Estate Assets February 26, 2021

#### **Executive Summary**

The following recommendations are the product of analyses conducted or sponsored by the ACLI, the NAIC, and industry real estate specialists. These recommendations represent the final product of discussions and deliberations that began in 2012 and are inclusive of changes meant to address questions and recommendations posed by members of the Investments Risk Based Capital (IRBC) and Life Risk Based Capital (LRBC) NAIC working groups, the American Academy of Actuaries (AAA) and other interested parties.

The objective of the recommendations described below is to ensure that the RBC assessment methodology and charges for the real estate sector more accurately reflect the sector's underlying risks and to promote consistency with the methodology used in other asset sectors.

- A. Schedule A Real Estate Factor. Update the C-1 factor for real estate assets held on Schedule A to be a base factor of 11%. This recommended factor is based on an estimated worst cumulative loss at a 95<sup>th</sup> 96<sup>th</sup> percentile confidence level based on historical experience, which suggested a base factor of 9.5%. As was done with common stock, we used values at 2 years loss horizon. An additional 1.5% charge is recommended to account for potential disparity in individual life company real estate portfolio composition and uncertainty surrounding the longer-term implications of the COVID-19 pandemic on the commercial real estate sector. The proposed factor would be applicable for all categories of real estate reported in Schedule A of the Life and Health Annual Statement. (See Section A)
- B. <u>Unrealized Capital Gains/Losses</u>. Adjust the based RBC factor using a ratio of 2/3 of the percentage difference between the reported fair value and statutory book value to the statutory book value. This adjustment would account for the cushion against statutory losses that is often created in real estate assets as they are held through time. The recommended RBC factor for Section A is calibrated based on volatility of market values through time. In contrast, real estate assets are reported for statutory accounting using depreciated cost. Real estate assets depreciate annually, so each year the asset's statutory value will be adjusted downward, even though the actual market value of the asset is more likely to be increasing. This creates an "unrealized gain" that serves as a cushion that must be completely eroded as market values fall before there would be any risk of loss of statutory capital. (See Section B)
- C. <u>Encumbrances</u>. Revise the RBC factor for real estate encumbrances following the principles of the current RBC with factors to be consistent with the commercial mortgage RBC framework adopted in 2013. (See Section C)
- D. <u>Schedule BA Real Estate Factor</u>. Update the factor for Schedule BA real estate to **12**% on a look-through basis, equivalent to the proposed factor for Schedule A (11%) plus a premium of about 10% of the amount, to more accurately reflect the risk of real estate assets reported on Schedule BA. All other mechanics would parallel the proposal for Schedule A Real Estate. (See Section D)

#### Scope

This proposal is developed for the Life and Fraternal Risk Based Capital formulas. This proposal does not address possible adjustment to the Asset Valuation Reserve (AVR) or tax adjustments for these assets. Finally, this proposal does not directly address the factors for the Health Risk Based Capital or for the Property & Casualty Risk Based Capital.

#### **Background**

RBC is used to measure potential future excess losses and their effect on statutory capital. The goal is to help regulators identify weakly capitalized companies, given risks that individual companies are taking. This proposal is consistent in methodology with recent RBC development work for common stock and bonds in areas such as the confidence levels for statistical analyses, while recognizing real estate's unique characteristics.

There is limited historical perspective available on the original construction methodology supporting the currently applied RBC factors for real estate investments. The following general description is taken from a 1991 report covering RBC C-1 (default) factors:

"There is little data upon which to base requirements for this asset group. Company practice, as shown by the 1990 intercompany survey, indicates factors in the range of 5 percent to 20 percent. An article in the May-June 1991 Financial Analysts Journal (Ennis and Burk) proposes that real estate volatility is about 60 percent of that for common stock, suggesting a factor in the range of 18 percent. If one assumes full tax credit for losses, this converts to a factor of about 10 percent which is the Subcommittee's recommendation for all real estate subcategories, except real estate acquired by foreclosure for which the factor is 15 percent. This is one of several asset groups which deserve continuing study to assure that risk-based capital requirements are adequate and appropriate."

Since the original real estate factor estimation, which was based on the somewhat rudimentary analysis described above, there has been a very significant improvement in the availability of performance data for the sector. While there have been additional analyses conducted for this sector since the initial methodology and factor adoption (i.e., AAA proposals in September and December 2000), to date there have been no significant changes made to the C-1 factor for real estate.

Since 2000, the pre-tax base C-1 factor for real estate applied in the sector has been 15%. The derivation of this factor, as described above, was based on 60% of the common stock factor, adjusted for taxes. The logic at the time was that the volatility of real estate was assumed to be around 60% of common stock volatility<sup>1</sup>. This assumption was reportedly based on inferences made from historical real estate investment trust (REIT) performance, as a robust private market performance history was not available at that time. REITs are companies that use debt in owning and managing properties and have performance characteristics different from that of the underlying commercial real estate.<sup>2</sup> The same 15% C-1 factor currently applies to virtually all directly held real estate, including company occupied properties, investment properties for long-term hold, and properties held for sale, but excludes properties acquired through foreclosure which were perceived to be riskier.

It is also important to note, that while real estate is considered an equity asset, statutory accounting requires it to be valued at depreciated cost. Any capital improvements are added to the statutory book value, and then

<sup>&</sup>lt;sup>1</sup> Various studies have since shown that equity real estate in general has volatility well less than 60% of that of the S&P 500.

<sup>&</sup>lt;sup>2</sup> The volatility of REIT performance is higher than the volatility of direct property performance primarily because REITs are leveraged investments, which results in greater volatility of results. Further, privately held property is not marked-to-market daily, trades infrequently, and tends to exhibit price changes rather slowly.

depreciated from that time. If and when there is an other-than-temporary impairment, the book value is revised down to then market value, if lower, and depreciated going forward. Throughout this document this is referred to as depreciated cost.

The real estate sector has matured significantly in the last 30 plus years, as institutional investment has become prevalent and public capital markets have become more developed. Information transparency has increased materially and the market has become much more "efficient". Valuation and accounting policies and standards, and increased regulation, have also increased standardization and invest ability. Ownership of commercial real estate is now much more widespread across institutions, including pension funds, than in the earlier period.

#### A. Review of Base C-1 RBC Factor – Support for Change to 11%

Analyses conducted or sponsored by the ACLI, the NAIC, and industry specialists suggest that the base C-1 RBC factor applicable to Schedule A real estate (including investment, foreclosed and held for sale real estate) should be set at 9.5%. An additional 1.5% cushion is recommended to account for potential disparities between the composition of the index used and individual life insurance company real estate portfolios and uncertainty surrounding the impact of COVID-19 on the longer term performance of commercial real estate. This recommendation is based primarily upon the NCREIF National Property Index (NPI) Price Variation Analysis presented below.<sup>3</sup>

Note that the support presented in this Section A represents an updated methodology meant to address certain concerns expressed by the American Academy of Actuaries regarding representation of the Global Financial Crisis in the data set. The original supporting methodology and support can be found in Appendix 3, for reference only.

The primary methodology employed to determine the recommended charge is analyses based on actual historical real estate investment performance data from the NCREIF Property Index (NPI), appended by data from FRC/Kelleher to extend the series through earlier years of 1961-1977.<sup>4</sup> This data set is collectively referred to as "NPI" in this analysis.

Results of Price Variation Model of NCREIF Property Index ("NPI")

	1 YR HP Cumulative Loss	2 YR HP Cumulative Loss	3 YR HP Cumulative Loss	4 YR HP Cumulative Loss
95-PCT	4.3	9.3	10.1	10.1
96-PCT	5.6	9.7	10.6	10.6

The above table presents the results of analyses of historical NPI total return data. The table presents the results of analyses based on both 95<sup>th</sup> percentile (PCT) and 96<sup>th</sup> PCT worst results in the historical data set. Further, the table presents cumulative losses at varying periods ranging from 1 to 4 years. Historically, downturns in real estate tend to last no longer than 3 years, so this period also represents the worst cumulative decline that would be observed even if the assumed period was extended further. The "cumulative" observations represent the largest cumulative loss experienced at any point in the period.

The recommendation of 9.5% is based on consideration of the maximum cumulative losses at both the 95<sup>th</sup> and 96<sup>th</sup> percentiles ("PCT") during the observed period. This assumed period of loss is consistent with the assumption used for common stock. Importantly, based on historical performance data for the sector, the 11% recommended base factor would cover cumulative losses during a 2-year period at a 96.8% confidence level.

<sup>&</sup>lt;sup>3</sup> See Appendix 1 for a detailed description of NCREIF and the NPI.

<sup>&</sup>lt;sup>4</sup> Kaiser, Ronald W., The Long Cycle in Real Estate, Journal of Real Estate Research, Volume 14, Number 3, 1997.

We also note that in using cumulative losses over time, there is no discounting for time value of money, and all analysis are conducted without any consideration of the federal income tax impact of the losses.

The use of actual historic quarterly returns across 60 years of industry experience provides for the incorporation of the impact of several economic cycles on supply and demand for commercial real estate and the impact on market values. This lengthy time period also allows for incorporation of the effects from earlier governmental impact on prices, such as from changes in the tax code in the 1980s.

#### Considerations

#### 1. Applicability of Index to Individual Life Company Portfolios

The recommended decrease in the RBC factor for Real Estate is based on the performance of a large and well diversified commercial real estate benchmark performance index (i.e., NCREIF-National Property Index, NPI). The index includes quarterly data from all the major property types (office, retail, industrial, multifamily and hotel) across all regions of the US, which makes it broadly applicable to all of these major property types nationwide. Additionally, we compared the distribution of properties by type and by geographical region in the NCREIF database to the distribution of those held by the life insurance companies and found the distributions to be quite similar.

The question of the potential need for increased granularity for the RBC factor was considered thoroughly. In particular, we considered a different factor for company occupied as a class with lower risk than investment properties. However, granularity beyond the single factor representative of all US commercial real estate was deemed inappropriate due to 1) the relatively small size of the asset class, 2) the alignment of composition between the NPI and the life industry portfolio, and 3) regulations separate from RBC factors that address concentration risks and assure diversification of life company real estate portfolios.

Additionally, segmenting the NPI dataset into smaller granularities can be problematic. The NPI as of 2nd Quarter 2013 consisted of just over 7,000 properties but roughly 30,000 properties have been in the index at some point during its 30+ year history. Over that history, the geographic and property type distribution of NPI has been constantly evolving. While the database of properties is large in total, segmenting it into more granular levels can produce sample sizes too small to be statistically sound. Beyond this, segmenting can add only limited additional value. The primary driver of real estate property performance is the national real estate cycle<sup>5</sup> as portrayed in the NPI. The pattern of real estate losses for both the industry and for individual companies is aligned with that cycle. In other words, the overall real estate cycle tends to dominate other effects including geography and property type. The strength of that national real estate cycle has been found in academic research to explain roughly 50% of the variation in property performance across all properties in the index.

#### 2. Impact of Select Key Assumptions

• Loss Horizon: The period of time assumed for the accumulation of losses in the analysis (loss horizon) plays an important role in determining the appropriate amount of required capital. In this updated proposal, we suggest an 11% RBC factor, which is based on cumulative losses over 3 years. Real estate assets are typically held longer-term, often five years or greater. As the assets are more illiquid than publicly traded bonds or other securities, they are often used to back surplus, or longer-term liabilities. Liquidity is managed such that the timing of sale of real estate assets can often be strategically determined, thus

<sup>&</sup>lt;sup>5</sup> Risk and Returns of Commercial Real Estate: A Property Level Analysis, Liang Peng, Leeds School of Business, April, 2010, <a href="http://www.reri.org/research/article-pdf/wp173.pdf">http://www.reri.org/research/article-pdf/wp173.pdf</a>

avoiding realization of the larger maximum potential losses. The key focus is the length of economic cycles with losses. In past real estate cycles, the duration of losses typically spans a 2 to 3-year period, with the majority of losses during past downturns being materially concentrated within one year. Average holding periods for real estate assets are typically much longer than one year, averaging 10 years or longer, based on analysis periods and investment targets for most institutional investors. As such, and given the statutory accounting for the asset class with declining book value and rigorous impairment requirements, it is normal for the actual recognized impairment rates by insurance companies to be lower in both frequency and severity than market averages. This is primarily related to the existence of unrealized gains that must be exhausted prior to any recognition of losses.

- **Confidence Level:** The confidence level also plays an important role in determining the appropriate amount of required capital. The 9.5% suggested base factor generally corresponds to the losses modeled at between the 95<sup>th</sup> and 96<sup>th</sup> percentiles (PCT) over a worst cumulative period. The recommended 11% factor covers losses at a 96.8% confidence level, assuming maximum cumulative losses during a 2-year period.
- Reserve Offset: The development of the bond factors includes an offset for expected losses based on the principle that expected losses are covered by reserves. Real estate and common stock are both treated as equity assets which are generally to support surplus and not reserve, and for which expected loss is not considered. The current RBC methodology for real estate equity does not include an offset for the expected loss, as the basic contribution to AVR used as a proxy for expected loss is zero. Similarly, this proposal does not include an offset for expected loss. The rationale for excluding the mitigating effects of the expected loss include:
  - There is no basic contribution to AVR for real estate investments.
  - Real estate is a small asset class, and analyses required to develop appropriate offsets for expected loss are deemed unnecessary.
  - Discussions around the appropriate relationship between expected loss, AVR, and RBC are ongoing. In the future, as precedent is set in the other larger asset classes where the effects are likely even more important, the potential integration of an offset in the real estate equity sector should be reconsidered.
- Income: In the development of RBC factors for bonds, income in excess of the expected loss offset discussed above is not included in the modeling and is assumed to be used for policyholder liabilities and not available as a loss offset. For common stock, and for real estate as equity investments, the total return is used. First, since the equity assets are generally presumed to back surplus and not policyholder reserves, the policyholder does not have claim to the income. Consistent with the lack of offset for expected loss, the income is available. When bonds default there is no subsequent income available to the investor. Real estate does not default, and even if subject to impairment, continues to produce income. The real estate values were therefore developed consistent with common stock using a total return view of the assets.
- Taxes: All of the modeling discussed in this project was done on a "cash" basis. No consideration has been given to the effect of these losses on the tax liability of the investor. Since losses reduce taxes that otherwise would be paid by the investor, this will result in a lower post-tax RBC factor than the recommended level.
- **Property acquired through foreclosure:** Property acquired through foreclosure should be treated the same as any other real estate. If the insurer forecloses on a mortgage and obtains the property, statutory

<sup>&</sup>lt;sup>6</sup> There are currently discussions at the NAIC regarding whether RBC assessments should be adjusted to remove the expected losses for sectors. In real estate equity's case, we are uncertain as to the materiality of adjusting for expected losses. The same could be said for common stock, as expected loss is a fixed income concept and would be difficult to apply to equities.

accounting requires the property to be brought onto the company's books at then current market value. As a result, the value is no different than any other property purchased in the course of business. If the property has low income potential, that will be reflected in its market value.

#### 3. Application of Stochastic Approaches

While we considered stochastic approaches, a fully stochastic model was deemed inappropriate by the working group due in large part to the limited amount of quarterly historical observations (limited when compared to the amount of daily transaction data available for public stocks and bonds). It is possible that a stochastic analysis could be performed wherein an algorithm would be built and calibrated to actual history.

However, if the algorithm is calibrated to historical performance, we believe that the results of such an analysis would be consistent with our work, which includes periods of very significant market stress in the sector. Note that the work performed in both common stocks and bonds excluded significant periods of stress in those markets, given changes in the economy from the advent of the creation of the Federal Reserve. Both asset classes have public data going back to early in the 19th century, though of varying quality. We used the full historic track record for Commercial Real Estate (CRE) that is available and includes the downturn in CRE from the S&L crisis in the 1990s, the effects of the dot-com bubble, the global financial crisis and the most recent effects of COVID-19 pandemic in 2020.

#### B. Adjust RBC to recognize risk impact of unrealized gains and losses

We also recommend implementation of an adjustment to individual property RBC that will account for the cushion against statutory losses that is often created in real estate assets as they are held through time. The RBC factor that is recommended in Section A is calibrated based on volatility of market values through time. However, real estate assets are reported for statutory accounting using depreciated cost. In real estate, the assets depreciate annually, so each year the asset's statutory value will be adjusted downward, even though the actual market value of the asset is more likely to be increasing. Annual depreciation rates in real estate are often 2% or higher. This creates an "unrealized gain" that serves as a cushion that must be completely eroded as market values fall before there would be any risk of loss of statutory capital.

Fair value of real estate assets held by life companies is reported in Schedule A for each individual property. This fair value includes the changing market value of the asset and the impact of any improvements that have been capitalized. This excess of market value over the statutory value is a cushion against loss of statutory capital.

We propose that the applied base RBC factor be adjusted using a ratio of 2/3 of the percentage difference between the reported fair value and statutory book value to the statutory book value. That value applied to the gross book value and after being reduced for any encumbrance would be floored to the RBC using the NAIC bond factor for a Baa equivalent (currently 1.30%)<sup>7</sup> applied to the BACV. Note that in situations where fair value is less than statutory, the RBC factor will be increased.

Examples of the application of the adjustment are presented in the below table and are hypothetical. If a market value were lower than book value, that property would be reviewed for possible impairment. If the value were down temporarily, this adjustment would provide a short-term increase in RBC. If the value is down on a permanent basis, this may provide an early increase in RBC prior to taking an impairment.

<sup>&</sup>lt;sup>7</sup> See Appendix 2 for sample calculation.

The specific formula including adjustment would be: RBC% = Max [NAIC2%, 11.0%\*(1 - 2/3\*(MV-BVg)/BVg)]

BV	MV	RBC
100	50	14.7%
100	100	11.0%
100	150	7.3%
100	200	3.7%
100	250	1.3%

BVg is the book value gross (prior to netting the encumbrances); NAIC2 is the NAIC2 corporate bond RBC charge.

In an effort to assess the effects of statutory accounting on actual life insurance company experience, a simulation was constructed to analyze hypothetical life company portfolio performance given statutory accounting. The results of this study demonstrate the materially lower statutory losses as compared to market value losses during downturns, and thus provide support for the proposed adjustment.

In 2013 the ACLI, NAIC, and Industry real estate specialists engaged Jeff Fisher (Academic Consultant), who is a special academic consultant to NCREIF, to use the historical property level performance data in the NPI to construct simulated historical performance under statutory accounting rules. The analysis leveraged all available NPI data history at the required level of granularity at that time, which included the period of 1978Q2 through 2013Q1. This analysis was performed to provide additional insight around the impact of statutory accounting (recognition of depreciation, impairment rules, etc.) on the historical performance and risk to capital for insurance companies.

The simulation used the actual historical market experience of the NPI at the individual property level, wherein estimates of statutory accounting were applied. This hypothetical exercise was not intended to serve as the primary basis for determination of an appropriate RBC factor. Rather, the results of this hypothetical exercise illustrate the effect that statutory accounting (i.e., with depreciating book values and impairment rules/requirements) can have on the timing and severity of loss recognition relative to market value changes and provide additional evidence that the primary analysis is reasonable, if not conservative, given the effect of statutory accounting.

The simulation made the following assumptions:

- 1. Beginning Book Value for statutory accounting when properties enter the data set is set equal to then current market value.
- 2. For Book Value projections, depreciation is over 20 years (5% per year) for all properties.
- 3. Properties are tested for impairment quarterly, with impaired properties removed from index after recognizing the loss from the impairment. Any income received to that point is retained in the modeling.
- 4. As in statutory accounting, there is no accounting for property value increases, only losses are recognized in the analysis.
- 5. There is no offset related to expected loss (i.e., there is no accounting for AVR).

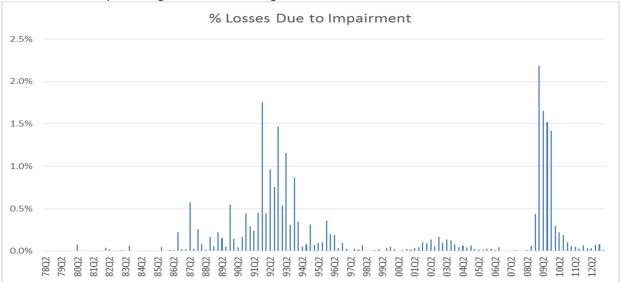
**Example of Simulated Statutory Property Performance**: In the simulation, individual asset market values are recorded in the quarter a property enters the index. At this beginning quarter, book value is set equal to market value, which is assumed to be the cost to acquire and is therefore consistent with statutory accounting. Every

quarter forward, NCREIF has updated estimates of market value for the asset.<sup>8</sup> Future statutory carrying value of the asset (depreciated book value) is estimated using the generic depreciation assumptions listed above. In every quarter, we estimate whether an impairment would have been recognized using statutory accounting rules, the then current market value, anticipated future property cash flows as implied from that market value, and then current statutory carrying value. Aggregate impairment rates by quarter are tracked through time, which are useful for comparison to actual market value losses reported for the index.

Using the above assumptions in the simulation model and including all properties over the entire history of the NPI, the following chart presents quarterly total losses as a percent of market value. As the chart below illustrates, the largest quarterly loss rate for the simulated index performance was just slightly over 2% during the recent Great Recession. Further, over this entire simulated history there are only a few quarters with significant simulated statutory losses. Losses were concentrated in the real estate market downturns of the early 1990s and in 2009 following the Great Recession.

The largest one-year loss for the full history of the simulated data occurred during the Great Recession, when the simulated one-year cumulative statutory loss was approximately 7% during the year 2009. During 2009, the actual recorded total return for properties in the NPI was a cumulative loss of 17%. This decline occurred amid the most severe downturn in history, based on its intensity. However, the value decline during this period was relatively short-lived, as the negative quarterly total returns persisted for only six quarters.

Given the event was an extreme outlier in the history of real estate performance, the probability of it reoccurring is extremely low within the modeled random sampling. In simple terms, since the 17% decline in one year occurred once in the 36-year exposure, the implied frequency is 2.8% probability (i.e., one year out of 36) while RBC is set to a 5% (or 95% confidence) level. In addition, this temporary reduction in market value would not necessarily have led to equal statutory impairments both since market value is typically in excess of book value, and requirements for statutory impairments do not immediately recognize all changes to market price. Thus, statutory accounting can lessen the severity of recognized losses during market downturns.



<sup>&</sup>lt;sup>8</sup> The NCREIF database relies on appraisals to establish value where there has not been a transaction. The simulation projected MV could be viewed as projected appraised value. Various studies of CRE appraisals have been performed and show that the appraisals are good estimates of MV, though they may lag actual market changes. This assumption does not affect the validity or applicability of the results.

<sup>&</sup>lt;sup>9</sup> While the 7% maximum simulated loss should provide a degree of comfort in the reasonableness of the proposed factor, it is not directly comparable in concept to either the proposed factor or the cited actual historic market value based index returns.

As further evidence of the impact of statutory accounting, we examined actual losses incurred during the Global Financial Crisis, which is the most severe real estate market downturn within the 60-year data analysis period. The ACLI conducted an analysis of the life insurance industry's actual performance during 2008 through 2012. The analysis examined all impairments of real estate investments, along with recognized losses on sale of real estate investments, during the period using data from Annual Statement exhibits Schedule A Parts 1 and 2. The industry reported cumulative losses of about 3.5% over that 5-year period, significantly lower than the 9.5% recommended factor. These reported industry losses include Other-Than-Temporary Impairments and losses on sale as reported in the Annual Statement schedule. Note that the analyses did not account for the declines in value of assets that are reported at fair value for statutory purposes.

#### C. Update RBC charge on real estate encumbrances

Under Statutory Accounting rules, real estate is held at depreciated cost net of encumbrances. Under the current proposal, RBC will be assessed by estimating the risk on the total property, then providing a credit for the value of the encumbrance based on the equivalent risk of the mortgage. The rationale for this is that the total underlying risk of loss on the property is the same whether or not there is an encumbrance, but the holder of the encumbrance bears part of the risk and the holder of the property bears the balance. Therefore, the risk is split effectively by developing the risk for the entire real estate value, then subtracting the amount of risk ascribed to the mortgage. We chose the approach of a reduced factor based on the average factor for mortgages in light of the small size of the real estate asset class, and the even smaller amount of encumbrances. For implementation, we recommend changing the RBC worksheet to show the RBC for the entire real estate, then a credit for the amount of the encumbrance. The final RBC will be subject to a minimum of the NAIC factor for a Baa bond (currently 1.30%) of the net book adjusted carrying value of the real estate, and not more than 45% of the net book adjusted carrying value.

The current encumbrance factors were based on the current RE factor of 15% reduced by the average RBC for commercial mortgages, which was 3.00% under the prior RBC formula. The proposed factor for Real Estate is 11.0%, and the average commercial mortgage factor that was developed as part of the Commercial Mortgage proposal in 2013 was 1.75%. As an example, consider the following:

Property Value	Amount	RBC factor	RBC
No encumbrance	100	11.0%	11.0
With 60% LTV mortgage			
- Property Value	100	11.0%	11.0
- Equity value	40		
- Encumbrance	60	- 1.75%	-1.05
- Real Estate RBC	40	24.9%*	9.95
- Mortgage RBC**	60	1.75%	1.05
- Total	100		11.0

<sup>\*</sup> Equals the RBC value (9.95) divided by the real estate equity value (40).

This table illustrates our suggestion that the same amount of total capital be held whether a property is held with no encumbrance, or if it has an encumbrance, to reflect the constant level of risk of loss at the property irrespective of the capital stack. The RBC calculated on the encumbrance derives from the price risk of the

<sup>\*\*</sup> This is an estimate of the value of the risk attributable to the mortgage by assuming that the mortgage was held by a life insurance company and estimating the resulting RBC.

property. It is to reflect that there is more risk as a percent of the equity investment, though not in total risk, to the equity investment of an investor in a property when leverage is used compared to when there is no leverage and a property is owned outright. In the case of having an encumbrance, the RBC held by the lender, when added to the RBC held by the owner on its equity and its encumbrance, sum to the same amount as if the property was held with no encumbrance.

In the current RBC, the result of this formula on encumbrances includes a maximum amount equal to 100% of the book adjusted carrying value of the real estate. While recognizing that the loss is generally limited to 100% of the carrying value, we believe that an RBC factor of 100% is excessive, and that the limit should be set at 45% of the carrying value. We note that for common stock, the combined factor at the maximum Beta is 45%.

#### D. Update Schedule BA Real Estate Factor

Real Estate held in joint ventures (JVs), limited liability companies (LLCs) or similar structures are recorded in Schedule BA, on lines 2199999 and 2299999. Currently, these assets are assessed RBC with a factor (23%) that is 50% higher than the factor for wholly owned real estate reported in Schedule A. The documentation for Schedule BA assets from the original RBC development articulates a premium over the RBC for Schedule A assets to account for additional risk associated with potentially lower transparency and control within the structures. However, since that time, data availability and industry experience has provided evidence that this premium is overly conservative, if not altogether unnecessary for the assets classified as real estate. We propose that the factor for Schedule BA real estate be adjusted to 12%, equivalent to the proposed factor for Real Estate recorded on Schedule A (11%) plus a premium of about 10% of that amount for conservatism. All of the other mechanics and components described above for Schedule A real estate would also apply consistently for the real estate recorded on Schedule BA. This proposal is supported by the following:

- Real estate investments today are very often executed through corporate structures such as LLCs simply to
  mitigate risks. Institutional investors regularly use these structures to reduce the risk of loss from
  contingent liabilities. Contingent liabilities could be associated with the operations of the property (e.g.,
  slip-and-falls), disputes with vendors or tenants, or debt. LLCs insulate investors from losses above the
  value of the net equity in an individual investment. Institutional investors also often use LLCs as holding
  companies for a series of single-asset LLCs, in order to better organize a portfolio in a manner that limits
  liabilities along each level of the corporate ownership structure.
- The NAIC recently approved the reclassification of certain wholly owned single owner, single asset LLCs to be reported on Schedule A. This was due to the recognition that the LLC structure itself did not produce additional risk. In this approval, the NAIC also agreed that additional reclassification could be proposed and approved when additional supporting materials were submitted. Rather than seeking a change in the accounting, we are proposing to adjust the RBC to reflect the risk.
- Partnership structures are often used to align interests between the life insurance company and local
  partners who have superior access to the market and property development, asset management and
  property management skills, while still maintaining control of significant investment decisions, especially
  around liquidity. This better execution and alignment of interest can result in better investment
  performance and even lower market risk.
- Partnership structures reduce the capital commitment of the life insurance company to an individual transaction, and thus can add portfolio diversification.

- A study was performed to compare the actual realized risk of institutional real estate investments held through JV's to those of directly-held real estate investments. Jeffrey Fisher, Ph.D. and consultant for NCREIF, broke down all properties in the NCREIF Property Index into joint venture and wholly owned properties to compare the performance since 1983. Mr. Fisher's analysis found as follows:
  - Since 1983, the average quarterly return for JV properties was 2.35% versus wholly owned properties at 1.97%. This performance gap widened over time.
  - The standard deviation of returns for JV properties (2.4%) was only modestly higher than the standard deviation of wholly owned properties (2.2%).
  - Values of the wholly owned properties fell more than the values of JV properties from peak-to-trough during the Global Financial Crisis (GFC).
  - o In terms of return dispersion during the GFC's worst quarter, wholly owned properties had the largest negative return and JV properties had the highest positive return.
  - JV properties were found to have shorter average holding periods than wholly owned properties,
     suggesting potentially higher liquidity in JV structures.

In summary, real estate held through joint ventures has performed consistently with and perhaps even slightly better than, wholly owned real estate. Based on this research, and in recognition of the several legitimate risk/return benefits of ownership through structures, we propose that real estate held on schedule BA use the Schedule A factor (11%) plus a premium of 10% of that amount, totaling approximately 12%.

#### Appendix 1

The historical National Council of Real Estate Investment Fiduciaries (NCREIF) database goes back to December 31, 1977, and as of 2nd Quarter 2013 consisted of approximately 7,000 properties. NCREIF collects 67 data fields each quarter that consist of financial information such as Market Value, NOI, Debt, and Cap Ex, as well as descriptor data such as Property Type and Subtype, Number of Floors, Square Footage, Number of Units, and Location.

The flagship index of NCREIF is the NCREIF Property Index (NPI), which is a quarterly index tracking the performance of core institutional property markets in the U.S. The objective of the NPI is to provide a historical measurement of property-level returns to increase the understanding of, and lend credibility to, real estate as an institutional investment asset class. The NPI is comprised exclusively of operating properties acquired, at least in part, on behalf of tax-exempt institutions and held in a fiduciary environment. Each property's return is weighted by its market value. The NPI includes properties with leverage, but all returns are reported on an unleveraged basis. The NPI includes Apartment, Hotel, Industrial, Office and Retail properties, and sub-types within each type. The index covers all regions of the US, which makes it broadly applicable to all of these major property types nationwide. Additionally, we have also done a comparison of the distribution of properties by type and by geographical region between those in the NCREIF database and those held by the life insurance companies and found them to be quite similar.

Over the history of the NPI data, there have been two severe downturns, in the 1990s and the recent GFC; as well as a shallow recession corresponding to the 2001 economic recession that did not produce negative total returns for real estate. Given the time series of the data, the index does reflect 'tail events' such as the Great Recession thus appropriately capturing the downturn in the employed primary methodology for estimation of the appropriate RBC charge.

Additional information on NCREIF and the NCREIF Property Index (NPI) can be found here: <a href="https://www.ncreif.org/public\_files/NCREIF">https://www.ncreif.org/public\_files/NCREIF</a> Data and Products Guide.pdf

#### Appendix 2

The difference between market value and statutory value (depreciated cost) is not included in surplus within statutory accounting. As a result, the risk of future impairments of statutory value would be much less for a company where the current market value of its portfolio of properties is well in excess of statutory carrying value, especially compared to one where market value is much closer to statutory carrying value.

Our primary analysis was based on market values, and therefore overstates the risk relative to statutory accounting. We are not proposing that statutory accounting for commercial real estate should change, but rather partially leveling the playing field for properties that have been held for extended periods with market value well in excess of statutory carrying value, versus recent acquisitions with no such unrealized gains. And we are proposing a floor charge equal to that for an NAIC 2 bond (currently 1.30%) so that capital will never be lower.

The following provides a numerical example. Assume a property held at a book value of \$100 with a market value of \$150. The NCREIF data measures changes in market value, and the 11% proposed factor would make provision for a loss of value to a value down to \$133.50. Under the RBC process, factors are applied to the book value and normally do not recognize that unrealized gain. Since real estate is held at book value which in this case is \$100, and is below this market value, effectively there an increased margin against the loss of statutory capital in excess of the amount of RBC.

For an asset with a market value well in excess of the carrying value, the reduction in RBC is minimal compared to the large-implied reserve. Similarly, in those relatively few circumstances where an asset will have a market value less than book value, the RBC amount would increase, to reflect the increased likelihood of a loss to carrying value. This increase in RBC would likely be in advance of an actual impairment, which would provide earlier visibility and recognition of weakening market conditions.



# Real Estate Equity RBC Proposal February 26, 2021

## **//ACLI**

## **Focus Areas to Achieve Consensus**

- Schedule A: Factor for Real Estate Equity investments
- Proposed Adjustment for Unrealized Capital Gains
- Update factor for RBC Adjustment for Real Estate Encumbrances
- Schedule BA: Proposed treatment consistent with Schedule A

## **MACLI**

## Schedule A: Equity investments in real estate

**Current status**: C-1 factor of 15%

• Rationale: Article from 1991 proposed that real estate volatility is about 60 percent of that for common stock, suggesting a factor in the range of 18 percent. If one assumes full tax credit for losses, this converts to a factor of about 10% after tax.

Proposal: C-1 factor of 11%

 Rationale: Analyses of real estate performance data conducted or sponsored by ACLI/NAIC/Industry specialists suggest that the base C-1 RBC factor applicable to Schedule A real estate (including company occupied, investment, acquired by foreclosure and held for sale) should be set at 9.5%. Proposed factor increased to 11% to add conservatism.

## **MACLI**

## Schedule A: Factor for Real Estate Equity investments

- Modeling based on historical experience indicates a factor of 9.5% for wholly owned real estate.
- Model database covers experience from 1961 through 2020
- Concerns raised by regulators and other interested parties indicate some margin for prudence in light of unknown COVID-19 impacts on economy.
- Proposal modified to recommend a base factor of 11%.
  - This will be applied to Real Estate reported on Schedule A, including company occupied, investment real estate, and real estate acquired by foreclosure.
  - This includes a 1.50% margin over modeled values at 95% confidence.



## Schedule A: Factor for Real Estate Equity investments

Concern	Response
Methodology for factor estimation does not adequately reflect market volatility, and more specifically the downturn surrounding Global Financial Crisis and possible effects of COVID-19	Addressed through additional modeling and margin added to proposed factor
Methodology uses Total Rate of Return in modeling,	This approach is consistent with common stock RBC analysis. As added conservatism, there is no offset for AVR contribution, although AVR is available to offset losses.
Discount interest rate	As added conservatism, losses are cumulative and not discounted.
Impact of Federal Income Tax	As added conservatism, all losses are projected on a cash basis with no impact of Federal Income Tax.



## Adjustment for Unrealized Capital Gains/Losses

RBC measures the risk of loss of statutory capital

**Factor Development**: While the analysis and proposed factors are based on market value, Statutory Accounting sets value of real estate at depreciated cost.

- When statutory value is less than fair value, risk to statutory capital is much lower. e.g., if fair value is 150 and deprecated cost is 100, the property can lose 1/3 of its value with no impact on statutory capital. Fair value is a key component of the risk profile.
- Fair value of real estate assets held by life companies is reported in Schedule A for each individual property.

**Proposal**: Adjust the RBC factor to recognize the difference between fair value and statutory value when applying it to the statutory value

 Rationale: The excess of fair value over the statutory value is a cushion against loss of statutory capital that is not currently recognized for risk-based capital purposes. Over time, the difference between depreciated cost and fair value can become substantial. This will reduce the need to sell appreciated properties to raise statutory capital.



## **Adjustment for Unrealized Capital Gains/Losses**

The formula for the adjusted factor would be:

Adj Factor = 
$$RE Factor^*(1 - [2/3] * (MV-BVg)/BVg)$$

BV	MV	RBC
100	50	14.7%
100	100	11.0%
100	150	7.3%
100	200	3.7%
100	250	1.3%



## **Adjustment for Unrealized Capital Gains**

Why use market value in RBC for Real Estate but not for Bonds?

Bonds	Real Estate
Defined, finite time horizon	Open ended timeframes
Defined maturity value (par)	No defined maturity value
Defined cash flows	No defined cash flows
Default based on failure to make a contractual payment.	Statutory write-down based on assessment of a permanent impairment.
Risk to stat capital not affected by a change to market value	Risk to stat capital is affected by change in market value

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## **RBC Adjustment for Real Estate Encumbrances**

- Current status: RBC is based on the total value of the real estate, with an adjustment for any encumbrance based on the RBC factor for Commercial Mortgage Loans.
- The proposed change is to update this adjustment to reflect the new RBC factors for commercial mortgage loans adopted in 2012:
  - Original average Commercial Mortgage factor: 3.00%
  - Updated average Commercial Mortgage average factor: 1.75%
- Since this is an offset to the RE factor, the lower factor produces an increase to RBC.
- The presentation is changed, but algebraically equal for the same factor.



## Schedule BA: Indirect equity investments in real estate

- Current status: C-1 factor of 23%
  - Rationale: C-1 factor for Schedule BA is 50% more than the C-1 factor for Schedule A real estate assets to account for presumed additional risk associated with potentially lower information transparency and control within the structures as well as unknown leverage.
- Proposal: Factor of 12%, factor for Schedule A real estate assets (11%) plus 1% premium (10% of base factor)
  - Rationale: Data availability and industry experience has provided evidence that this
    premium is overly conservative, if not altogether unnecessary for the assets
    classified as real estate within Schedule BA. A study showed that, since 1983, real
    estate held through joint ventures has performed consistently with and perhaps
    even slightly better than, wholly-owned real estate.
  - An ACLI survey of member companies showed characteristics of Schedule BA real
    estate to be similar to Schedule A.



## **RBC for Real Estate Decisions**

- What base factor should be used for company owned real estate?
   Proposed to be 11%.
- How much of the impact on the risk profile from the unrealized gains be reflected in the RBC? Propose a ratio of 2/3 of the gain to the BACV.
- Should the recognition of encumbrances be updated from the original CML factor of 3% to an average of the current CML of 1.75%?
- Should real estate held through a joint venture or fund receive the same factor as directly owned? If not, how adjusted? Propose to use a factor of 12%.

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## Questions?