# IASB / FASB meeting March 2011

# Agenda paper 3J - Appx A

### Appendix A - Summary of Alternative Formulas Proposed

1 As proposed

	Premiums allocated to date Total expected premiums	<ul> <li>+ Claims and benefits paid to date</li> <li>+ Total expected claims and benefits</li> </ul>	_]	* CM at initial recogntion	- CM previously recognized	= CM recognized in current period
2	As proposed with weighting(relative)					
	Premiums allocated to date * x Total expected premiums * x	<ul> <li>+ Claims and benefits paid to date * (1-x)</li> <li>+ Total expected claims and benefits * (1-x)</li> </ul>	_]	* CM at initial recogntion	- CM previously recognized	= CM recognized in current period
3	As proposed with weighting(risk-based)					
	Premiums allocated to date Total expected premiums	<ul> <li>+ Claims and benefits paid to date * n</li> <li>+ Total expected claims and benefits * n</li> </ul>	_]	* CM at initial recogntion	- CM previously recognized	= CM recognized in current period
4	Claims					
	Incurred claims and benefits to date Total expected claims and benefits over life o	* CM at initial recogntion f contract	_]	- CM previously recognized	= CM recognized in current pe	riod
5	Premiums Allocated					
	Premiums allocated to date Total premiums expected	* CM at initial recognition	_]	- CM previously recognized	= CM recognzied in current pe	riod

# Appendix A - Summary of Composite Margin Recognition

	Coverage		Claims Han				
Formula	<b>Period</b> Year 1	Year 2	Year 3	Year 4	Year 5	Total Re	ecognized
Formula 1 - As Proposed							
1A(expected claim changes)	\$ 10,243	\$ 1,886	\$ 2,016	\$ 1,185	\$ 754	\$	16,084
1B(no expected claim changes)	\$ 9,271	\$ 1,005	\$ 1,675	\$ 1,675	\$ 2,457	\$	16,084
Formula 2 - Relative Weighting							
2A(high coverage period release)	\$ 14,573	\$ 537	\$ 498	\$ 284	\$ 192	\$	16,084
2B(high claims period release)	\$ 6,197	\$ 2,860	\$ 3,575	\$ 2,160	\$ 1,292	\$	16,084
Formula 3 - Risk Weighting on Claims							
3A(low risk)	\$ 14,565	\$ 540	\$ 500	\$ 286	\$ 193	\$	16,084
3B(high risk)	\$ 6,179	\$ 2,864	\$ 3,582	\$ 2,164	\$ 1,295	\$	16,084
Formula 4 - Claims							
4	\$ 959	\$ 3,637	\$ 5,827	\$ 3,771	\$ 1,891	\$	16,084
Formula 5 - Premiums							
5	\$ 16,084	\$-	\$ -	\$-	\$-	\$	16,084

#### Appendix A Formula 1 - As Proposed

Ratio =

(Premiums allocated to date + Claims and benefits paid to date) (Total expected premiums + Total expected claims and benefits)

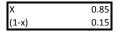
	Initial					
	Recognition	Year 1	Year 2	Year 3	Year 4	Year 5
Premiums allocated to the current period		60,000	-	-	-	-
Premiums allocated to date		60,000	60,000	60,000	60,000	60,000
Total expected premiums	60,000	60,000	60,000	60,000	60,000	60,000
Current period claims payments		2,250	6,750	11,250	11,250	13,500
Claims paid to date		2,250	9,000	20,250	31,500	45,000
1A - With changes in expected claims						
Total expected claims	48,000	37,750	31,500	31,250	36,000	45,000
Ratio calculated for the period		0.6368	0.7541	0.8795	0.9531	1.0000
Composite margin recognized in earnings to date Less: composite margin recognized in previous		10,243	12,129	14,145	15,330	16,084
periods		-	10,243	12,129	14,145	15,330
Composite margin recognized in current period		10,243	1,886	2,016	1,185	754
Remaining composite margin	16,084	5,841	3,955	1,939	754	-
1B - No change in expected claims						
Total initially expected claims		48,000	48,000	48,000	48,000	48,000
Ratio calculated for the period		0.5764	0.6389	0.7431	0.8472	1.0000
Composite margin recognized in earnings to date		9,271	10,276	11,951	13,627	16,084
Less: composite margin recognized in previous		-	9,271	10,276	11,951	13,627
Composite margin recognized in current period		9,271	1,005	1,675	1,675	2,457
Remaining composite margin	-	10,077	6,759	2,458	1,106	-

Assumptions at initial recogr	Assumptions at initial recognition											
Coverage period	1 years											
Claims handling period	5 years											
Premiums												
Yearly	\$ 60,000											
Total expected	\$ 60,000											
Acquisition costs												
Incremental	\$ 2,000											
Non-incremental	\$ 5,000											
Discount rate	5%											
Investment rate	8%											
Composite margin	\$ 16,084											

#### Appendix A Formula 2 - DP Proposed with weighting (similar to Formula 3)

Ratio =	Premiums allocated to date * x	+	Claims and benefits paid to date * (1-x)
	Total expected premiums * x	+	Total expected claims and benefits * (1-x)

### 2A Margin recognized during coverage should be high



		Day 0	Y	/ear 1	Year 2	Year 3	Year 4	Year 5
Ratio calculated for the period				0.91	0.94	0.97	0.99	1.000
Composite Margin Balance	\$	16,084						
Composite margin recognized to date			\$	14,573	\$ 15,110	\$ 15,608	\$ 15,892	\$ 16,084
less composite margin recognized in prior periods			\$	-	\$ (14,573)	\$ (15,110)	\$ (15,608)	\$ (15,892)
Composite margin recognized in current period	_	_	\$	14,573	\$ 537	\$ 498	\$ 284	\$ 192
Total CM recognized			\$	14,573	\$ 15,110	\$ 15,608	\$ 15,892	\$ 16,084

#### 2B Margin recognized during claims handling period should be high

х	0.25
X (1-x)	0.75

	Day 0	Year	1	١	ear 2	,	Year 3	Year 4	Year 5
Cumulative CM recognized			0.39		0.56		0.79	0.92	1
Composite Margin Balance	\$ 16,084								
Composite margin recognized to date		\$6	5,197	\$	9,057	\$	12,632	\$ 14,792	\$ 16,084
less composite margin recognized in prior periods		\$	-	\$	(6,197)	\$	(9,057)	\$ (12,632)	\$ (14,792)
Composite margin recognized in current period		\$6	5,197	\$	2,860	\$	3,575	\$ 2,160	\$ 1,292
Total CM recognized	Ş	\$6	5,197	\$	9,057	\$	12,632	\$ 14,792	\$ 16,084

#### Appendix A Formula 3 - DP Proposed with weighting (risk-profile)

Ratio=	Premiums allocated to date	+ Claims and benefits paid to date * n
Natio-	Total expected premiums	+ Total expected claims and benefits * n

#### 3A Short-tail risk profile contract



	Day 0	Year 1	Year 2	Year 3	Year 4	Year 5
Ratio calculated for the period		0.91	0.94	0.97	0.99	1.00
Composite Margin Balance	\$ 16,084					
Composite margin recognized to date	Ş	14,565	\$ 15,105	\$ 15,605	\$ 15,891	\$ 16,084
less composite margin recognized in prior periods	 \$	-	\$ (14,565)	\$ (15,105)	\$ (15,605)	\$ (15,891)
Composite margin recognized in current period	 Ş	14,565	\$ 540	\$ 500	\$ 286	\$ 193

#### 3B Long-tail risk profile contract

n	3.02
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	Day 0	Year 1	Year 2	Year 3	Year 4	Year 5
Ratio calculated for the period		0.38	0.56	0.78	0.92	1.00
Composite Margin Balance	\$ 16,084					
Composite margin recognized to date	ç	6,179	\$ 9,043	\$ 12,625	\$ 14,789	\$ 16,084
less composite margin recognized in prior periods	Ś	\$ -	\$ (6,179)	\$ (9,043)	\$ (12,625)	\$ (14,789)
Composite margin recognized in current period	Ś	\$ 6,179	\$ 2,864	\$ 3,582	\$ 2,164	\$ 1,295

### Appendix A Formula 4 - Claims

Ratio=	Incurred claims and benefits to date     *     CM at initial recognition       Total expected claims and benefits over life of contract									
	Day 1	Year 1	Year 2	Year 3	Year 4	Year 5				
Paid to date		2,250	9,000	20,250	31,500	45,000				
Total expected claims		37,750	31,500	31,250	36,000	45,000				
Ratio for period		0.06	0.29	0.65	0.88	1.00				
CM Recognized		959	3,637	5,827	3,771	1,891				
Remaining composite margin	16,084	15,125	11,489	5,662	1,891	-				

# Appendix A Formula 5 - Allocated Premiums

		niums allocated to d premiums expecte			* CM at initial recognition	
	Day 1	Year 1	Year 2	Year 3	Year 4	Year 5
Premiums allocated to date		60,000	60,000	60,000	60,000	60,000
Total Premiums Expected		60,000	60,000	- 60,000	60,000	60,000
Ratio for period		1				
CM Recognized		16,084	-	-		
Remaining composite margin	16,084	-	-	-		