APPENDIX CA-12

WORKED EXAMPLE OF DURATION METHOD OF CALCULATING GENERAL INTEREST RATE RISK

MARKET RISK CAPITAL ADEQUACY

Zone	Modified Duration Band	Individual Net Positions		Assumed move in rates	Modified Weighted Individual Net Duration Postions		By Band		By Zone		Between Zones		
A	В	С	D	Е	F	G	Н	I	J	K	L	M	N
						$(C \times E \times F)$	(D x E x F)						
	(Years)	Long	Short	(% pa)	(years)	Long	Short	Matched	Unmatched	Matched	Unmatched	Matched	Matched
1	1 month or less	\$100.00	-\$50.00	1.00%	0.00	\$0.00	\$0.00	\$0.00	\$0.00				
	1 to 3 months	\$200.00	-\$100.00	1.00%	0.20	\$0.40	-\$0.20	\$0.20	\$0.20				
	3 to 6 months	\$300.00	-\$200.00	1.00%	0.40	\$1.20	-\$0.80	\$0.80	\$0.40	\$0.00	\$1.30		
	6 to 12 months	\$400.00	-\$300.00	1.00%	0.70	\$2.80	-\$2.10	\$2.10	\$0.70	Т		Zone 1 & 2	
					TOTAL	\$4.40	-\$3.10	Q \$3.10	\$1.30			\$ 1.30	
2	1 to 1.9 years	\$100.00	-\$200.00	0.90%	1.40	\$1.26	-\$2.52	\$1.26	-\$1.26			W	Zone 1 & 3
	1.9 to 2.8 years	\$200.00	-\$300.00	0.80%	2.20	\$3.52	-\$5.28	\$3.52	-\$1.76	\$0.00	-\$5.27		\$ 0.00
	2.8 to 3.6 years	\$300.00	-\$400.00	0.75%	3.00	\$6.75	-\$9.00	\$6.75	-\$2.25	U			Z
					TOTAL	\$11.53	-16.80	R \$11.53	-\$5.27			Zone 2 & 3	Z
3	3.6 to 4.3 years	\$100.00	-\$100.00	0.75%	3.65	\$2.74	-\$2.74	\$2.74	\$0.00			\$ 3.97	
	4.3 to 5.7 years	\$200.00	-\$200.00	0.70%	4.65	\$6.51	-\$6.51	\$6.51	\$0.00			X	
	5.7 to 7.3 years	\$300.00	-\$100.00	0.65%	5.80	\$11.31	-\$3.77	\$3.77	\$7.54	\$4.50	\$8.29	A	
	7.3 to 9.3 years	\$100.00	-\$200.00	0.60%	7.50	\$4.50	-\$9.00	\$4.50	-\$4.50	V	40.27		
	9.3 to 10.6 years	\$200.00	-\$100.00	0.60%	8.75	\$10.50	-\$5.25	\$5.25	\$5.25				
	10.6 to 12 years	\$300.00	-\$300.00	0.60%	10.00	\$18.00	-\$18.00	\$0.00	\$0.00				
	12 to 20 years	\$0.00	\$0.00	0.60%	0.00	\$0.00	\$0.00	\$0.00	\$0.00				
	over 20 years	\$0.00	\$0.00	0.60%	0.00	\$0.00	\$0.00	\$0.00	\$0.00				
					TOTAL	\$53.56	-\$45.27	S \$40.77	\$8.29				
Total of Colu	otal of Columns		-\$2,550		<u> </u>		1	<u> </u>	1		\$4.32		<u>I</u>
			•	•							Y	•	
General Inter	est Rate Risk Capital Requi	rement = 5% (Q	+ R + S) + 40%	6 T + 30% (U +	+ V) + 40% (W	+ X) + 100% Y +	100% Z	\$2.77		\$4.50	\$4.32	\$2.11	\$0.00

Total General Interest Rate Risk Capital Requirement

\$10.55

Assumption: This example uses the same portfolio as was used on worked example of the maturity method. The modified duration values are derived from that example. This example is for illustration only, as banks might have any number of positions in each zone, the modified duration of each being calculated on a case-by-case basis.

Note: For instruments the maturity of which is on the boundary of two maturity bands, the instrument should be placed into the earlier maturity band. For example, instruments with a maturity of one year are placed into the 6 to 12 months band.

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