Reading: Odomirok.19-RBC (RBC - R3) 1a-Question

Model: n/a

Problem Type: Calculate the RBC charge for R₃

Given Credit-Related Assets

NON-INVESTED ASSETS	amount	RBC factor
investment income due & accrued	12,300	0.01
amounts receivable related to uninsured plans	1,380	0.05
guaranty funds receivable or on deposit	0	0.05
recoverable (parents/subs/affiliates)	8,200	0.05
aggregate write-ins for other than invested assets	0	0.05
REINSURANCE RECOVERABLES	RBC charge	
C35 Credit Risk on Collateralized Recoverables	4,620	n/a
C36 Credit Risk on Uncollateralized Recoverables	335	n/a

^{*} C35 refers to Schedule F, Part 3, Column (35)

U/W risk (you need this to finish the R $_3$ calculation)

RBC charge for F	R .	7,600
INDC CHAIRC IOL I	1.4	7,000

^{*} C36 refers to Schedule F, Part 3, Column (36)

^{*} assume this P&C insurer has no health credit risk

$R_3 = 3,080$

R ₃	=	charge for non-invested assets	+	charge for reins. recov.	+ charge for health credit risk
	=	602	+	2,478	+ 0

= 3,080 <==== final answer

charges for NON-INVESTED ASSETS

investment income due & accrued amounts receivable related to uninsured plans guaranty funds receivable or on deposit recoverable (parents/subs/affiliates) aggregate write-ins for other than invested assets

		amount		RBC factor
123	=	12,300	x	0.01
69	=	1,380	x	0.05
0	=	0	x	0.05
410	=	8,200	x	0.05
0	=	0	x	0.05
602	<== char	ae for non-inve	ested as	sets

pre-allocation charges for REINSURANCE RECOVERABLES

4,955 = (collateralized + uncollateralized risk charge)

Check R₃/R₄ allocation of RBC for reinsurance recoverables

RBC charge for R_4 = 7,600 (RBC charge for NON-INVESTED ASSETS) + (1/2)x(RBC charge for reins recoverables) = 3,080

Since R_4 is greater ==> put 50% of 4,955 into R_3

final R_3 charge for reins recovs = 2,478 <== charge for reinsurance recoverables

Reading: Odomirok.19-RBC (RBC - R3) 2a-Question

Model: n/a

Problem Type: Calculate the RBC charge for R₃

Given Credit-Related Assets

NON-INVESTED ASSETS	amount	RBC factor
investment income due & accrued	18,400	0.01
amounts receivable related to uninsured plans	3,360	0.05
guaranty funds receivable or on deposit	4,900	0.05
recoverable (parents/subs/affiliates)	8,400	0.05
aggregate write-ins for other than invested assets	0	0.05
REINSURANCE RECOVERABLES	RBC charge	
C35 Credit Risk on Collateralized Recoverables	6,480	n/a
C36 Credit Risk on Uncollateralized Recoverables	315	n/a

^{*} C35 refers to Schedule F, Part 3, Column (35)

U/W risk (you need this to finish the R $_3$ calculation)

DDC -l	(D	2 4 2 2
RBC charge 1	for R ₄	2,100
		2,100

^{*} C36 refers to Schedule F, Part 3, Column (36)

^{*} assume this P&C insurer has no health credit risk

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R ₃	=	charge for non-invested assets	+	charge for reins. recov.	+ charge for health credit risk
	=	1,017	+	6,795	+ 0
	=	7,812 <=== final answer			

charges for NON-INVESTED ASSETS

investment income due & accrued amounts receivable related to uninsured plans guaranty funds receivable or on deposit recoverable (parents/subs/affiliates) aggregate write-ins for other than invested assets

		amount		RBC factor
184	=	18,400	х	0.01
168	=	3,360	х	0.05
245	=	4,900	х	0.05
420	=	8,400	х	0.05
0	=	0	х	0.05
1,017	<== charg	ge for non-inve	ested ass	sets

pre-allocation charges for REINSURANCE RECOVERABLES

6,795 = (collateralized + uncollateralized risk charge)

Check R₃/R₄ allocation of RBC for reinsurance recoverables

RBC charge for R_4 = 2,100 (RBC charge for NON-INVESTED ASSETS) + (1/2)x(RBC charge for reins recoverables) = 4,415

Since R_4 less than or equal ==> put 100% 6,795 into R_3

final R_3 charge for reins recovs = $\frac{6,795}{}$ <== charge for reinsurance recoverables