(Schedule F - 2017. Spring Q14) a-Question

Reading: Odomirok.14-F

Model: 2017.Spring #14

Problem Type: Schedule F provision for reinsurance

Given An insurer has only 2 reinsurers with data as follows:

	unauthorized	authorized
recoverables NOT in dispute	reinsurer A	reinsurer B
T ⁿ ==> total reinsurance recoverable	3,500	2,500
P ⁿ ==> recoverable on paid loss & LAE	2,000	1,300
$P_{90}^{n} ==>$ recoverable on paid loss & LAE > 90 days past due	250	150
recoverable on paid loss & LAE > 120 days past due	55	75

		unauthorized	authorized
	recoverables in dispute	reinsurer A	reinsurer B
T ^d ==>	total reinsurance recoverable	600	500
	recoverable on paid loss & LAE	400	200
P ^u ₉₀ ==>	recoverable on paid loss & LAE > 90 days past due	100	50
	recoverable on paid loss & LAE > 120 days past due	25	20

		unauthorized	authorized
	other junk you need for the calculation	reinsurer A	reinsurer B
Recvd ==>	amount received prior 90 days	40	0
	letters of credit (LOC)	1,500	300
part of C ==>	ceded balances payable	80	0
part of C ==>	other amounts due reinsurers	0	35

Notation RP Reinsurance Provision <== this is what we want to calculate

Τ

Total Recoverable (includes amounts NOT IN dispute & amounts IN dispute)

P Paid Recoverable

C Collateral (or Offsets to RP)

A superscript of ⁿ means the amount is NOT in disupte A superscript of ^d means the amount IS in disupte

A subscript of $_{\rm 90}$ means the amount is PAST 90 DAYS due

 $\begin{array}{ll} C_s & & \text{Collateral that is } \textbf{secured} \\ C_u & & \text{Collateral that is } \textbf{unsecured} \end{array}$

RP = 2,730 <== thi.

<== this is the final provision for reinsurance

unauthorized reinsurer A

RP(A) = T - C + 20% x (
$$P_{90}^{n}$$
 + T^{d} = 4,100 - 1,580 + 20% x (250 + 600 = 2,690

REMEMBER: RP(A) is **capped** by T = 4,100

authorized reinsurer B (that's overdue)

The provision for authorized but overdue reinsurers depends on whether or not they are **slow-paying**.

slow-paying ratio =
$$P_{90}^{n}$$
 / (P'' + Recvd) = 150 / (1,300 + 0) = 11.5%

slow-paying threshold is 20% so this reinsurer is

NOT slow-paying ==> RP(B)

if reinsurer IS NOT slow-paying:

RP(B) = 20% x (
$$P''_{90}$$
 + P^{u}_{90})
= 20% x (150 + 50)
= 40 <== REMEMBER: This is capped by T = 3,000

if reinsurer IS slow-paying: