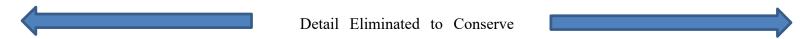
Capital Adequacy (E) Task Force RBC Proposal Form

	DATE: 1/23/24	FOR NAIC USE ONLY		
CONTACT PERSON:	Dan Daveline	Agenda Item #2023-17-CR		
TELEPHONE:		Year <u>2024</u> DISPOSITION		
		ADOPTED: TASK FORCE (TF) WORKING GROUP (WG) SUBGROUP (SG) EXPOSED: TASK FORCE (TF)		
EMAIL ADDRESS:	ddaveline@naic.org			
ON BEHALF OF:	Solvency Workstream of the Climate &			
Resiliency (EX) Task For	ce			
NAME:				
TITLE:		☐ WORKING GROUP (WG)		
AFFILIATION:		⊠SUBGROUP (SG) 01/ <u>29/2024 03/17/24</u>		
AFFILIATION:		REJECTED: ☐ TF ☐ WG ☐ SG		
ADDRESS:		OTHER:		
		☐ DEFERRED TO		
		☐ REFERRED TO OTHER NAIC GROUP ☐ (SPECIFY)		
	IDENTIFICATION OF SOURCE AND FORM(S)/INST	RUCTIONS TO BE CHANGED		
Health RBC Blanks	☑ Property/Casualty RBC Blanks ☐	Life and Fraternal RBC Blanks		
Health RBC Instruction		Life and Fraternal RBC Instructions		
Health RBC Formula	☑ Property/Casualty RBC Formula	Life and Fraternal RBC Formula		
OTHER				
6.1	DESCRIPTION/REASON OR JUSTIFICATI			
·	of the Climate & Resiliency (EX) Task Force was tas sstream held three public panels on the topic in 20	-		
· ·	climate Conditioned Catalogs" that reflect adjusted			
•	ared side by side with existing RBC data in PRO27 v			
	information is intended to be useful for domestic	· -		
	of risk levels for these perils.			
-,				
, 8				

^{**} This section must be completed on all forms.

CALCULATION OF CATASTROPHE RISK CHARGE RCAT PR027A, PR027B, PR027C, PR027, PR027B2, PR027C2 AND PR027INT



<u>DISCLOSURE OF CLIMATE CONDITIONED CAT EXPOSURE</u> <u>PR027B2, PR027C2</u>

These disclosures aim at collecting the impact of climate related risks on the modeled losses for the perils of hurricane and wildfire that have been used in PR027B and PR027C respectively. The intent of these disclosures is for informational purposes only and not to determine a new RCAT charge. The impact should be estimated using the following specific instructions:

- Representative Concentration Pathway (RCP) represents a set of projections that are meant to serve as an input for climate modeling, pattern scaling and atmospheric chemistry modeling. For purposes of these instructions, companies should utilize an RCP of 4.5 (or equivalent SSP).
- The impact should be assessed separately under two-time horizons 2040 and 2050.
- Assume a static in-force book of business at year end (no changes to book of business, to reinsurance strategy or to total insured value (TIV) inflation over the projected time horizon).
- The impact can be modeled using either a Climate Conditioned Catalog developed by a commercial CAT model vendor or equivalent view of climate risk internally developed by the insurer or that is the result of adjustments made by the insurer to vendor provided catalogs to represent the own view of climate risk.

The same basic information is required to be completed for this PR027B2 and PR027C2 as the previous pages-PR027B and PR027C, including specifically as follows:

Column (1) – Direct and Assumed Modeled Losses

These are the direct and assumed modeled losses per the first footnote. Include losses only; no loss adjustment expenses. For companies that are part of an inter-company pooling arrangement, the losses in this column should be consistent with those reported in Schedule P, i.e. losses reported in this column should be the gross losses for the pool multiplied by the company's share of the pool.

Column (2) – Net Modeled Losses

These are the net modeled losses per the footnote. Include losses only; no loss adjustment expenses.

Column (3) - Ceded Amounts Recoverable

These are the modeled losses ceded under any reinsurance contract. Include losses only, no loss adjustment expenses, and should be associated with the Net Modeled Losses.

In addition, the insurer should provide the following information about the view of climate risk used to determine the climate conditioned modeled losses under each time horizon:

- If a Climate Conditioned Catalog developed by a commercial CAT model vendor is used, provide name and version of the catalog.
- If it is internally developed by the company, provide a brief description of assumptions/adjustments made.

CALCULATION OF CATASTROPHE RISK CHARGE FOR HURRICANE PR027B

Modeled Losses

Hurricane	<u>Reference</u>	(1) Direct and Assumed	(2) <u>Net</u>	3† Ceded Amounts Recoverable		(4)†† Ceded Amounts Recoverable with zero Credit Risk Charge
(1) Worst Year in 50	Company Records					
(2) Worst Year in 100	Company Records					
(3) Worst Year in 250	Company Records					
(4) Worst Year in 500	Company Records					
(5) Worst Year in 1000	Company Records					
				(5) <u>Y/N</u>		
(6) Has the company reported ab	ove, its modeled hurricane losses using an	occurrence exceedance probability (OEP) basis?				
				(6)		(7)
				Amount	Factor	RBC Requirement
		Reference				(C(6) * Factor)
(7) Net Hurricane Risk		L(2) C(2)			0 1.000	0
(8) Contingent Credit Risk for H	urricane Risk	L(2) C(3) - C(4)			0 0.018	0
(9) Total Hurricane Catastrophe		If $L(6) C(5) = "N", L(9) C(6) = L(7) C(7) + L(6)$			0 1.000	0
(10) Total Hurricane Catastrophe		If L(6) C(5) = "Y", L(10) C(6) = L(7) C(7)+ L		-	0 1.000	0
(11) Total Hurricane Catastrophe	Risk	L(9) C(7) + L(10) C(7)				0

Lines (1)-(5): Modeled losses to be entered on these lines are to be calculated using one of the following NAIC approved third party commercial vendor catastrophe models - AIR, CoreLogic, RMS, KCC, the ARA HurLoss Model, or the Florida Public Model for hurricane; or a catastrophe model that is internally developed by the insurer and has received permission of use by the lead or domestic state. The insurance company's own insured property exposure information should be used as inputs to the model(s). The insurance company may elect to use the modeled results from any one of the models, or any combination of the results of two or more of the models. Each insurer will not be required to utilize any prescribed set of modeling assumptions, but will be expected to use the same data, modeling, and assumptions that the insurer uses in its own internal catastrophe risk management process. An attestation to this effect and an explanation of the company's expansion and model selection may be required, and the company's catastrophe data, assumptions, model and results may be subject to examination.

† Column (3) is modeled catastrophe losses that would be ceded under reinsurance contracts. This should be associated with the Net Modeled Losses shown in Column (2).

††Column (4) is modeled catastrophe losses that would be ceded to the categories of reinsurers that are not subject to the RBC credit risk charge (i.e., U.S. affiliates and mandatory pools, whether authorized, unauthorized, or certified).

CALCULATION OF CATASTROPHE RISK CHARGE FOR WILDFIRE PR027C (For Informational Purposes Only)

Modeled Losses

Wildfire	Reference	(1) Direct and Assumed	(2) <u>Net</u>	3† Ceded Amounts Recoverable	(4)†† Ceded Amounts Recoverable with zero Credit Risk Charge	
(1) Worst Year in 50	Company Records					
(2) Worst Year in 100	Company Records					
(3) Worst Year in 250	Company Records					
(4) Worst Year in 500	Company Records					
(5) Worst Year in 1000	Company Records					
				(5) Y/N		
						
(6) Has the company reported about	ove, its modeled wildfire losses using an oc	ccurrence exceedance probability (OEP) basis?				
				(6)	(7)	
				Amount	RBC Requirement	
		Reference			(C(6) * Factor)	
(7) Net Wildfire Risk		L(2) C(2)		0 1	1.000	
(8) Contingent Credit Risk for W	'ildfire Risk	L(2) C(3) - C(4)		0 (0.018	
(9) Total Wildfire Catastrophe R	isk (AEP Basis)	If L(6) C(5) = "N", L(9) C(6) = L(7) C(7)+ I	L(8) C(7), otherwise "0"	0 1	1.000 0	
(10) Total Wildfire Catastrophe R	isk (OEP Basis)	If $L(6) C(5) = "Y", L(10) C(6) = L(7) C(7) + 1$	L(8) C(7), otherwise "0"	0 1	1.000 0	
(11) Total Wildfire Catastrophe R	isk	L(9) C(7) + L(10) C(7)	7)		0	
Disclosure in lieu of model-based re	porting:			(8)	(9)	
(12) For a company qualifying for the exemption under PR027INT C (10), complete 11a through 11c below:				Direct and Assumed	<u>Net</u>	
		a best estimate basis in lieu of model-based reporting.				
b. Provide details on how the company estimated the amounts shown in 11a.						
c. Provide a narrative disclosu	are about how the company manages its wil	ldfire risk.				

Lines (1)-(5): Modeled losses to be entered on these lines are to be calculated using one of the following NAIC approved third party commercial vendor catastrophe models - AIR, RMS, or KCC_{τ} or a catastrophe model that is internally developed by the insurer and has received permission of use by the lead or domestic state. The insurance company's own insured property exposure information should be used as inputs to the model(s). The insurance company may elect to use the modeled results from any one of the models, or any combination of the results of two or more of the models. Each insurer will not be required to utilize any prescribed set of modeling assumptions, but will be expected to use the same data, modeling, and assumptions that the insurer uses in its own internal catastrophe risk management process. An attestation to this effect and an explanation of the company's key assumptions and model selection may be required, and the company's catastrophe data, assumptions, model and results may be subject to examination.

† Column (3) is modeled catastrophe losses that would be ceded under reinsurance contracts. This should be associated with the Net Modeled Losses shown in Column (2).

††Column (4) is modeled catastrophe losses that would be ceded to the categories of reinsurers that are not subject to the RBC credit risk charge (i.e., U.S. affiliates and mandatory pools, whether authorized, unauthorized, or certified).

DISCLOSURE OF CLIMATE CONDITIONED CAT EXPOSURE FOR HURRICANE PR027BI (For Informational Purposes Only)

Climate Conditioned Modeled Losses for 2040

	Hurricane	Reference	(1) <u>Direct and Assumed</u>	(2) <u>Net</u>	3† Ceded Amounts Recoverable		
(1) (2) (3) (4) (5)	Worst Year in 50 Worst Year in 100 Worst Year in 250 Worst Year in 500 Worst Year in 1000	Company Records Company Records Company Records Company Records Company Records					
	View of climate risk used		AT model vendor is used, provide name and v	ersion of the catalog			

Lines (1)-(5): Modeled losses to be entered on these lines are to be calculated using the same commercial vendor-catastrophe model, or combination of models used to calculate the CAT Risk Charge.

† Column (3) is modeled catastrophe losses that would be ceded under reinsurance contracts. This should be associated with the Net Modeled Losses shown in Column (2).

DISCLOSURE OF CLIMATE CONDITIONED CAT EXPOSURE FOR HURRICANE PR027BII (For Informational Purposes Only)

Climate Conditioned Modeled Losses for 2050

	Hurricane	<u>Reference</u>	(1) <u>Direct and Assumed</u>	(2) <u>Net</u>	3† <u>Ceded Amounts Recoverable</u>	
(1)	Worst Year in 50	Company Records				
(2)	Worst Year in 100	Company Records				
(3)	Worst Year in 250	Company Records				
(4)	Worst Year in 500	Company Records				
(5)	Worst Year in 1000	Company Records				
	View of climate risk used					
(6)	If a Climate Conditioned Cat	alog developed by a commercial	CAT model vendor is used, provide name and v	version of the catalog		
(7)	(7) If it is internally developed by the company, provide a brief description of assumptions/adjustments made					

Lines (1)-(5): Modeled losses to be entered on these lines are to be calculated using the same commercial vendor-catastrophe model, or combination of models used to calculate the CAT Risk Charge.

† Column (3) is modeled catastrophe losses that would be ceded under reinsurance contracts. This should be associated with the Net Modeled Losses shown in Column (2).

DISCLOSURE OF CLIMATE CONDITIONED CAT EXPOSURE FOR WILDFIRE PR027CI (For Informational Purposes Only)

Climate Conditioned Modeled Losses for 2040

	Wildfire	Reference	(1) <u>Direct and Assumed</u>	(2) <u>Net</u>	3† Ceded Amounts Recoverable
(1)	Worst Year in 50	Company Records			
(2)	Worst Year in 100	Company Records			
(3)	Worst Year in 250	Company Records			
(4)	Worst Year in 500	Company Records			
(5)	Worst Year in 1000	Company Records			

View of climate risk used

- (6) If a Climate Conditioned Catalog developed by a commercial CAT model vendor is used, provide name and version of the catalog
- (7) If it is internally developed by the company, provide a brief description of assumptions/adjustments made

Lines (1)-(5): Modeled losses to be entered on these lines are to be calculated using the same commercial vendor catastrophe model, or combination of models used to calculate the CAT Risk Charge.

† Column (3) is modeled catastrophe losses that would be ceded under reinsurance contracts. This should be associated with the Net Modeled Losses shown in Column (2).

DISCLOSURE OF CLIMATE CONDITIONED CAT EXPOSURE FOR WILDFIRE PR027CII (For Informational Purposes Only)

(1) (2) 3† Wildfire Reference **Direct and Assumed** Net **Ceded Amounts Recoverable** (1) Worst Year in 50 **Company Records** (2) Worst Year in 100 **Company Records** (3) Worst Year in 250 **Company Records** (4) Worst Year in 500 **Company Records** (5) Worst Year in 1000 **Company Records**

Climate Conditioned Modeled Losses for 2050

View of climate risk used

- (6) If a Climate Conditioned Catalog developed by a commercial CAT model vendor is used, provide name and version of the catalog
- (7) If it is internally developed by the company, provide a brief description of assumptions/adjustments made

Lines (1)-(5): Modeled losses to be entered on these lines are to be calculated using the same commercial vendor catastrophe model, or combination of models used to calculate the CAT Risk Charge.

† Column (3) is modeled catastrophe losses that would be ceded under reinsurance contracts. This should be associated with the Net Modeled Losses shown in Column (2).