# Appendix E Risk Mitigation Accountability Report Guidelines (REDLINED)

# Risk Mitigation Accountability Report Guidelines

## **RMAR Definitions**

In addition to the terms listed here, all terms listed in the Risk-based Decision-making Framework<sup>1</sup> are relevant to an RMAR submission.

Term	Definition
Class	Class determines table structure and interpretation in RMAR. There are two Classes: Stock tables and Flow tables.
Benefit-Cost Ratio (BCR)	The ratio of Mitigation Benefits to Mitigation Costs as defined by D.22-12-027 and refinements required in subsequent Commission Decisions.
Flow	A Class that describes tables where the values accumulate over time and can be added. Flow Line-items include Mitigation Benefits and Mitigation Costs, and BCR. See a full explanation below.
Forecasts	Future estimates of Line-item values that are unique to the Plan Phase in RMAR, typically based on outputs from a model and/or SME judgement. Forecasts will be used for comparing against Monetized Outcomes, Results and Projections in the Reporting Phase. Forecast values are established in a Decision adopted in a GRC or other cost recovery venue. See also Scenario.
Line-item	A line in the RMAR with values associated with it. This could include, but is not limited to, BCR, Mitigation Benefit, Mitigation Cost, Postmitigated Risk, Pre-mitigated Risk, Risk Reduction, and Work Units.
Mitigation Benefit	The monetized risk reduction of mitigations that is presented as a Flow. Mitigation Benefits are typically calculated by a model and/or SME judgement.
Mitigation Cost	The cost of mitigations that is presented as a Flow. Historical costs are taken from actual costs incurred; while future costs are based on models and/or SME judgement.
Monetized Outcome	The monetized impact of Risk Events that have occurred in a given year. This could be estimated using, for instance, but not limited to, the Safety Performance Metrics.
Plan Phase	The section in RMAR that lays out the Plan. It only contains Forecasts of the future.
Post-mitigated Risk	The risk that remains after mitigations are applied, and is presented as Stock.
Pre-mitigated Risk	The current level of risk, before any new mitigations are applied, and is presented as Stock.

<sup>1</sup> See Appendix A in this Decision or any subsequent Decision that updates Appendix A.

Projections	A forecast of future Line-item values unique to the Reporting Phase in the RMAR, which is typically based on outputs from a model and/or SME judgement. Based on new data or models, Projections may update and change the Plan's Forecast values established in a Decision adopted in a GRC or other cost recovery venue. Projections should be compared to the Forecasts in the Plan Phase. See also Scenario.
Results	Results are the impact of mitigation activities that have occurred in a given year. In the case of Mitigation Benefits, Results are the monetized value calculated from a model based on the mitigation activities that occurred in a given year. In the case of Mitigation Costs or Work Units, Results are based on actual costs incurred or actual work units performed in a given year. See also Scenario.
Reporting Phase	The section of RMAR that compares Monetized Outcomes, Results and Projections to the Forecasts in the Plan Phase. The Reporting Phase will include updated Projections based on the utility's current knowledge. The Reporting Phase contains both historical data of Results and future-looking Projections.
Risk Measure	How risk is presented in a table, e.g. Expected Value Risk or Tail Average Risk (Optional).
Risk Reduction	The monetized impact of mitigations, presented as a Stock value. Risk Reduction is typically calculated by a model and/or SME Judgement.
Scenario	Distinctions of Line-item values used to make comparisons between the Plan Phase and the Reporting Phase. Forecasts, Results, and Projections are Scenarios. If there are multiple Projections in the Reporting Phase, then each Reporting Phase with a unique Projection is a distinct Scenario.
Stock	A Class that describes tables where the Line-items represent point-in-time values. Stock Line-items include Pre-mitigated Risk, Post-mitigated Risk, and Risk Reduction. See a full explanation below.

# Stock and Flow Explanations

Stock and Flow are two different Classes of Line-items in an RMAR that determine how monetized mitigation impacts on risk are calculated and used. Mitigation impacts are based on the output of risk models.

**Flow** describes the calculation of a Mitigation Benefit, which contributes to the numerator in the BCR. Once a mitigation is completed, the benefit occurs every year for the expected life of the mitigation, and the total benefit is the sum over the expected life. As such, a Flow value is <u>additive</u>. For example, if a mitigation is modeled to reduce risk by \$10, and the expected life of the mitigation is 10 years, the mitigation benefit is the sum of the risk reduction over the 10 years, or \$100. The BCR would be calculated by using the \$100 Mitigation Benefit discounted by the appropriate discount rate.

**Stock** describes a Risk Reduction value. Once a mitigation is completed, risk is reduced from a Premitigated Risk level to a Post-Mitigated Risk level. As such, Stock is a <u>point-in-time value</u>. Using the same example as in Flow, above, if a mitigation is modeled to reduce risk by \$10 for 10 years, the modeled Risk Reduction is \$10. The level of Post-mitigated Risk is \$10 lower than the Pre-mitigated Risk.

### **RMAR Line-items**

	Source of Values	Stock or Flow
Plan Phase:		
Mitigation Benefits	Modeled Forecast	Flow
Mitigation Costs	Modeled Forecast	Flow
Work Units	Modeled Forecast	Flow
BCR	Modeled Forecast (Present Value)	Flow
Pre-Mitigated Risk	Modeled Forecast	Stock
Post-Mitigated Risk	Modeled Forecast	Stock
Risk Reduction	Modeled Forecast	Stock
Reporting Phase:		
Mitigation Benefits	Modeled Result/Modeled Projection	Flow
Mitigation Costs	Actual Result/Modeled Projection	Flow
Work Units	Actual Result/Modeled Projection	Flow
BCR	Modeled Projection (Present Value)	Flow
Pre-Mitigated Risk	Modeled Projection	Stock
Post-Mitigated Risk	Modeled Result/Modeled Projection	Stock
Risk Reduction	Modeled Result/Modeled Projection	Stock
Monetized Outcomes	Actual Outcome	Stock

# RMAR Required Tables and Table Elements

- 1. Aside from the original RAMP backcast, the first RMAR must at a minimum be four years of reporting, including the Report Year, the Report Years to date and the Forecast years.
- 2. All tables should include the following roll-up points:
  - a. **Hierarchy**: Based on organizational structure, including, but not limited to, circuit, substation, pipeline, watershed region, High-Fire Threat District, region, division,

enterprise. Hierarchy defines how reports and tables are grouped in "parent-child" relationships.

- b. Scenario: Forecast, Results, Projection.
- c. **Version**: Risk model or methodology
- d. Risk Event: All risks included in the most recent RAMP and GRC Applications
- e. **Tranches**: Risk event-dependent.<sup>2</sup>
- f. Mitigations: Risk event-dependent.
- 3. All tables should include the following common elements:
  - a. Attribute: Safety, Reliability, Financial.
  - b. **Risk Measure**: Expected Value Risk, Tail Average Risk (Optional).
  - c. **Line-items**: This dimension contains all the key calculations in an RMAR, including, but not limited to, BCR, Mitigation Benefit, Mitigation Cost, Post-mitigated Risk, Premitigated Risk, Risk Reduction, and Work Units.
  - d. Work Unit: Corresponds to the Work Units presented in the GRC and RSAR.
  - e. **Time**: Periods under consideration, including years and GRC Cycle (i.e. PG&E's 2027 GRC).

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<sup>&</sup>lt;sup>2</sup> See D.24-05-064, Appendix A, Row 14

# Required Plan Phase Tables

a. Forecasted Mitigation Costs and Benefits Table for Expected Value Risk by Mitigation for each Risk Event

WILDFI	RE RISK MITIGATION FORECAST
Hierarchy	Enterprise
Risk Events	Wildfire
Scenario	Forecast
Version	Model 2.1
Time	Years 1-4
Sub-table 1. Wo	ork Unit Circuit Miles
	Plan Y1Y4
UG	1,400
CC	400
Total	1,800

<b>Total</b> 1,800							
Sub-table 2. Mitigation Benefit	Overvie	w	Expecte	ed Value	Risk		
By Mitigation Type			itigation Benefit	M	itigation Cost		
UG			\$640		\$500		
CC			\$630		\$340		
Total			<b>\$1,27</b> 0		\$790		
BCR:		,	WACC		Social	Hybrid	1
UG			1.86		2.79	2.34	
CC			2.14		2.48	2.43	
Total			1.99		2.65	2.39	
Sub-table 3. Mitigation Benefit	Y1Y4						
Expected Value Risk	Year 1	Year 2	Year 3	Year 4	Year 5 to	Expected Life	Total
3a. UG							
Mitigation Benefit	<b>\$</b> 0	\$0	\$80	\$80		\$480	\$640
Mitigation Costs	<b>\$</b> 0	\$500	\$0	<b>\$</b> O		\$0	\$500
3b. CC							
Mitigation Benefit	\$63	\$63	\$63	\$63	!	\$378	\$630
Mitigation Costs	\$200	<b>\$</b> 10	<b>\$</b> 10	\$10		\$60	\$290
3c. Total							
Mitigation Benefit	\$63	\$63	\$143	\$143		\$858	\$1,270
Mitigation Costs	\$200	\$510	\$10	\$10		\$60	<b>\$</b> 790

## b. Forecasted Risk Reduction Table by Attribute for each Risk Event

<i>b.</i> 1010000	WILDFIRE RISK MITIGA				
Hierarchy	Enterprise	TION FO	RECASI		
Risk Events	Wildfire				
Scenario Scenario	Forecast				
Version	Model 2.1				
Time	Years 1-4				
Time	rears 1-4				
Cook takin i Di	sk Reduction Overview				
		Cofoty	Reliability	Financial	
Pre-mitigated 1		Safety \$270	\$300	\$300	
Risk reduction	isk			\$500 \$54	
	.:-1-	\$35	\$54		
Post-mitigated	nsk	\$235	\$246	\$246	
7T '1 A D	• 1 4				
Tail Average R		¢1.770	¢1 770	\$1 F40	
Pre-mitigated 1	ISK	\$1,760	\$1,760	\$1,540	
Risk reduction	1	\$183	\$282	\$282	
Post-mitigated		\$1,578	\$1,478	\$1,258	
	<u>l. D. d. seine VIV</u>				
	k Reduction Y1Y4	<b>3</b> 7 4	<b>N</b> / 0	<b>N</b> / 2	
Expected Valu	e Kisk	Year 1	Year 2	Year 3	Year 4
Safety	• •	<b>#07</b> 0			
Pre-mitigated i	1SK	\$270	<b>#4.</b> F	ф <u>о</u> г	<b>#25</b>
Risk reduction	• •	\$15	\$15	\$35	\$35
Post-mitigated	risk	\$255	\$255	\$235	\$235
Reliability		<b>#2</b> 00			
Pre-mitigated i	nsk	\$300	Ф <b>О</b> 4	ф <b>Г</b> 4	<b>ФГ.</b> 4
Risk reduction	• 1	\$24	\$24	\$54	\$54
Post-mitigated	risk	\$276	\$276	\$246	\$246
<u>Financial</u>	• •	<b>#2</b> 00			
Pre-mitigated i	nsk	\$300	Ф <b>О</b> 4	ф <b>Г</b> 4	<b>ФГ.</b> 4
Risk reduction		\$24	\$24	\$54	\$54
Post-mitigated	risk	\$276	\$276	\$246	\$246
/m + 1	9	<b>X7</b> 4	<b>T</b> 7 O	¥7. 0	¥7. 4
Tail Average R	<u>18K*</u>	Year 1	Year 2	Year 3	Year 4
<u>Safety</u>		<b>#4.5</b> (0)			
Pre-mitigated i	nsk	\$1,760	фо <b>2</b>	<b>#102</b>	#4.0 <b>2</b>
Risk reduction		\$83	\$83	\$183	\$183
Post-mitigated	risk	\$1,678	\$1,595	\$1,413	\$1,230
Reliability		<b>** * * * *</b>			
Pre-mitigated 1	risk	\$1,760	M. 22	****	***
Risk reduction		\$132	\$132	\$282	\$282
Post-mitigated	risk	\$1,628	\$1,628	\$1,478	\$1,478
<u>Financial</u>					
Pre-mitigated 1	risk	\$1,540			
Risk reduction		\$132	\$132	\$282	\$282
Post-mitigated		\$1,408	\$1,408	\$1,258	\$1,258
*Tail <u>#R</u> isk is t	not additive				

# Required Reporting Phase Tables

The following example tables are from a hypothetical RMAR submitted in Year 3 of a GRC Cycle:

a. Monetized Outcomes Flow Table by Attribute for each Risk Event

WILDFIRE ATTRIBUTES M	IONETIZEI	O OUTCOM	E		
Hierarchy	Enterprise				
Risk Events	Wildfire				
Scenario	Monetized Outcome vs. Forecast				
Version	Model 2.1				
Time	Year 3				
		<u>Y3</u>			
	Safety	Reliability	Financial	Risk	
Monetized Outcome by Attribute	\$600	\$300	\$1,800	\$2,700	
Forecast - Expected Value Post-mitigated Risk	\$235	\$246	\$246	\$727	
Monetized Outcome better(worse) than Forecast	(\$365)	(\$54)	(\$1,554)	(\$1,973)	
	-155%	-22%	-632%	-271%	
Forecast - Tail-average Risk Post-mitigated Risk*	\$1,578	\$1,478	\$1,258	\$3,921	
Outcome better(worse) than Forecast	\$978	<b>\$1,</b> 178	(\$542)	\$1,221	
	38%	20%	-143%	69%	
*Tail #Risk is not additive					

### b. Monetized Outcomes Stock Table by Attribute for each Risk Event

WILDFIRE ATTRIBUTES MONETIZ	ZED OU	TCOME		
Hierarchy	Enterpr	ise		
Risk Events	Wildfire			
Scenario	Monetized Outcome vs. Forecast			
Version	Model 2.1			
Time	Years 1-3			
		<u>Y1</u>	<u>Y3</u>	
	Safety	Reliability	Financial	Risk
Average Y1Y3 Monetized Outcome by Attribute	\$600	\$330	\$1,845	\$2,775
Average Y1Y3 Forecast - Expected Value Post-mitigated risk	\$745	\$798	\$798	\$2,341
Monetized Outcome better(worse) than Forecast	\$145	\$468	(\$1,047)	(\$434)
·	19%	59%	-131%	-19%

c. Expected Value Risk Mitigation Benefit and Mitigation Cost by Risk Event Table

RISK EVENTS MI	TIGATION BEN	NEFIT AND MIT	IGATION C	OST
Hierarchy	Enterprise			
Risk Events	All			
Scenario	Results vs. Forec	ast and Projections	vs. Forecast	
Version	Model 2.1			
Time	Year 3 and Years	s 1-3		
Sub-table 1. Mitigation Benef	it and Cost, Y3			
			Results B	(W) Forecast
Expected Value Risk	Results Y3	Forecast Y3	\$	%
<u>Wildfire</u>				
Modeled Mitigation Benefit	\$106	\$143	(\$37)	-26%
Actual Mitigation Cost	\$260	\$10	(\$250)	-2500%
<u>Cyber</u>				
Modeled Mitigation Benefit	\$12	\$12	\$0	0%
Actual Mitigation Cost	\$5	\$5	\$0	0%
<u>Hydro</u>				
Modeled Mitigation Benefit	\$50	\$60	(\$10)	-17%
Actual Mitigation Cost	\$15	\$15	\$0	0%
<u>Total</u>				
Modeled Mitigation Benefit	\$168	\$215	(\$47)	-22%
Actual Mitigation Cost	\$280	\$30	(\$250)	-833%
Sub-table 2. Mitigation Bene	fit and Cost, Y1Y	3		
				(W) Forecast
Expected Value Risk	Results Y1Y3	Forecast Y1Y3	\$	%
Wildfire	****	****	(# = 0)	• • • • •
Modeled Mitigation Benefit	\$216	\$269	(\$53)	-20%
Actual Mitigation Cost	\$770	\$720	(\$50)	-7%
Cyber	***	***	**	00/
Modeled Mitigation Benefit	\$36	\$36	<b>\$</b> 0	0%
Actual Mitigation Cost	\$15	\$15	\$0	0%
<u>Hydro</u>	<b>#F</b> 0	<b>\$4.2</b> 0	(450)	<b>5</b> 00/
Modeled Mitigation Benefit	\$50	\$120	(\$70)	-58%
Actual Mitigation Cost	\$215	\$210	(\$5)	-2%
Total	#A ^ A	# 40F	(#4.00)	2007
Modeled Mitigation Benefit	\$302	\$425	(\$123)	-29%
Actual Mitigation Cost	\$1,000	\$945	(\$55)	-6%

Sub-table 3	6. Mitigation Be	enefit and Cos	ts: Results and	Projection	n versus F	orecast			
					Results			Projection	
Expected V	Value Risk:			Year 1	Year 2	Year 3	Year 4	Year 5 to	Total
								Expected Life	
<u>Wildfire</u>									
Modeled M	litigation Bene	fit: Results/P	rojection	\$55	\$55	\$106	\$135	\$810	\$1,161
Modeled M	litigation Bene	fit: Forecast		\$63	\$63	\$143	\$143	\$858	\$1,270
Results/Pr	ojection B(W)	Forecast		(\$8)	(\$8)	(\$37)	(\$8)	(\$48)	(\$109)
Actual/Mo	deled Mitigation	on Costs: Resu	ılts/Projection	\$200	\$310	\$260	\$10	\$60	\$840
Modeled M	litigation Cost:	Forecast		\$200	\$510	<b>\$</b> 10	\$10	\$60	\$790
Results/Pr	ojection B(W)	Forecast		\$0	\$200	(\$250)	\$0	\$0	(\$50)
Cyber									
Modeled Mitigation Benefit: Results/Projection		\$12	\$12	\$12	\$12	\$72	\$120		
Modeled M	Iitigation Bene	fit: Forecast		\$12	\$12	\$12	\$12	\$72	\$120
	ojection B(W)			\$0	\$0	\$0	\$0	<b>\$</b> O	\$0
	. , ,								
Actual/Mo	deled Mitigatio	on Costs: Resu	ılts/Projection	\$5	\$5	\$5	\$5	\$30	\$50
	litigation Cost:		· ,	\$5	\$5	\$5	\$5	\$30	\$50
	ojection B(W)			\$0	\$0	\$0	\$0	\$0	\$0
Hydro	, ,			"	"	"	"	"	
	litigation Bene	fit: Results/P	roiection	\$0	\$0	<b>\$</b> 50	\$50	\$300	\$400
	Iitigation Bene		,	\$0	\$60	\$60	\$60	\$360	\$540
	ojection B(W)			\$0	(\$60)	(\$10)	(\$10)	(\$60)	(\$140)
	-,			W -	(123)	(1 - 2)	(1 - 2)	(133)	(1 33)
Actual/Mo	deled Mitigatio	on Costs: Resu	ılts/Projection	\$0	\$200	\$15	\$15	\$90	\$320
	litigation Cost:			\$180	\$15	\$15	\$15	\$90	\$315
	ojection B(W)			\$180	(\$185)	\$0	\$0	\$0	(\$5)
Total				7 - 2 - 2	(+===)	7 -	7 -	7.2	(+-)
	litigation Bene	fit: Results/P	roiection	\$67	\$67	\$168	\$197	\$1,182	\$1,681
	litigation Bene			\$75	\$135	\$215	\$215	\$1,290	\$1,930
	ojection B(W)			(\$8)	(\$68)	(\$47)	(\$18)	(\$108)	(\$249)
11000100711		2 020000		(+0)	(+00)	(+11)	(+20)	(+100)	(+= 1>)
Actual/Mo	deled Mitigatio	on Costs: Resi	ılts/Projection	\$205	\$515	\$280	\$30	\$180	\$1,210
	litigation Cost:		· · · · · · · · · · · · · · · · · · ·	\$385	\$530	\$30	\$30	\$180	\$1,155
	ojection B(W)			\$180	\$15	(\$250)	\$0	\$0	(\$55)
	-,,,,,			# - 0 0	π	(+==+)	πν	π ~	(+55)
BCR	Projection	Forecast	B(W)						
Wildfire:			, ,						
WACC	1.73	1.92	-0.19						
Social	2.44	2.72	-0.28						
Hybrid	2.14	2.36	-0.22						
Cyber:									
WACC	2.40	2.40	0.00						
Social	2.40	2.40	0.00						
Hybrid	2.64	2.64	0.00						
Hydro									
WACC	1.18	1.52	-0.34						
Social	1.35	1.72	-0.38						
Hybrid	1.35	1.70	-0.35						
TTYDIIG	1.JJ	1./0	-0.33						

### d. Expected Value Risk Mitigation Benefit by Attribute for each Risk Event Table

d. Expected Value R						ידי	
	LDFIRE AT	IKIBUT	ES MITTO	JATION	BENEF.	11	
Hierarchy Risk Events	Enterprise Wildfire						
Scenario Scenario	Results vs. Fo	arogast and	d Decination	en vo Eo	rogast		
Version	Model 2.1	mecast and	a Projectic	0118 VS. 1 O	iecasi		
Time	Year 3 and Y	ears 1-3					
Sub-table 1. Mitigation Be							
Sub-table 1. Mitigation De	chemis Overvi	C W				Results B(W) I	
Mitigation benefit, Y3						results B(W) I	orccust
Expected Value Risk		Resu	ılts Y3	Fore	cast Y3	\$	%
Safety			30		35	(\$5)	-14%
Reliability		\$	38	\$	54	(\$16)	-30%
Financial		\$	38	\$	\$54	(\$16)	-30%
Total		\$1	106	\$	143	(\$37)	-26%
Mitigation benefit, Y1Y3							
Expected Value Risk			ts Y1Y3	_	ast Y1Y3	\$	%
Safety			60		65	(\$5)	-8%
Reliability			78		102	(\$24)	-24%
Financial			78		102	(\$24)	-24%
Total		\$2	216	\$.	269	(\$53)	-20%
Sub-table 2. Mitigation Be	enefit Y1Y3						
			Results			Projection	
Expected Value Risk		Year 1	Year 2	Year 3	Year 4	Year 5 to	Total
						Expected Life	
0.0							
<u>Safety</u>							
Safety Modeled Mitigation Bene	fit:	\$15	\$15	\$30	\$35	\$210	\$305
Modeled Mitigation Bene Results/Projection			"			"	
Modeled Mitigation Bene		\$15 \$15	\$15 \$15	\$30 \$35	\$35 \$35	\$210 \$210	\$305 \$310
Modeled Mitigation Bene Results/Projection	fit: Forecast		"			"	
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene	fit: Forecast	\$15	\$15	\$35	\$35	\$210	\$310
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W)	fit: Forecast Forecast	\$15 <b>\$0</b>	\$15 <b>\$0</b>	\$35 <b>(\$5)</b>	\$35 <b>\$0</b>	\$210 <b>\$0</b>	\$310 <b>(\$5)</b>
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W)	fit: Forecast Forecast	\$15	\$15	\$35	\$35	\$210	\$310
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W) Reliability Modeled Mitigation Bene	fit: Forecast Forecast fit:	\$15 <b>\$0</b>	\$15 <b>\$0</b>	\$35 <b>(\$5)</b>	\$35 <b>\$0</b>	\$210 <b>\$0</b>	\$310 <b>(\$5)</b>
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W) Reliability Modeled Mitigation Bene Results/Projection	fit: Forecast  Forecast  fit:  fit:	\$15 <b>\$0</b> \$20	\$15 <b>\$0</b> \$20	\$35 (\$5) \$38	\$35 <b>\$0</b> \$50	\$210 \$0 \$300	\$310 (\$5) \$428
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W) Reliability Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene	fit: Forecast  Forecast  fit:  fit:	\$15 <b>\$0</b> \$20 \$24	\$15 <b>\$0</b> \$20 \$24	\$35 (\$5) \$38 \$54	\$35 <b>\$0</b> \$50 \$54	\$210 <b>\$0</b> \$300 \$324	\$310 (\$5) \$428 \$480
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W) Reliability Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W)	fit: Forecast  fit: fit: Forecast  Forecast	\$15 \$0 \$20 \$24 (\$4)	\$15 \$0 \$20 \$24 (\$4)	\$35 (\$5) \$38 \$54 (\$16)	\$35 <b>\$0</b> \$50 \$54 <b>(\$4)</b>	\$210 \$0 \$300 \$324 (\$24)	\$310 (\$5) \$428 \$480 (\$52)
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W)  Reliability Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W)  Financial Modeled Mitigation Bene	fit: Forecast  fit: fit: Forecast  Forecast	\$15 <b>\$0</b> \$20 \$24	\$15 <b>\$0</b> \$20 \$24	\$35 (\$5) \$38 \$54	\$35 <b>\$0</b> \$50 \$54	\$210 <b>\$0</b> \$300 \$324	\$310 (\$5) \$428 \$480
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W) Reliability Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W)	fit: Forecast  fit: Forecast  fit: Forecast  Forecast	\$15 \$0 \$20 \$24 (\$4)	\$15 \$0 \$20 \$24 (\$4)	\$35 (\$5) \$38 \$54 (\$16)	\$35 <b>\$0</b> \$50 \$54 <b>(\$4)</b>	\$210 \$0 \$300 \$324 (\$24)	\$310 (\$5) \$428 \$480 (\$52)
Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Reliability Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Financial Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection	fit: Forecast  fit: Forecast  fit: Forecast  fit: Forecast  fit: Forecast	\$15 \$0 \$20 \$24 (\$4) \$20	\$15 \$0 \$20 \$24 (\$4) \$20	\$35 (\$5) \$38 \$54 (\$16) \$38	\$35 <b>\$0</b> \$50 \$54 <b>(\$4)</b> \$50 \$54	\$210 \$0 \$300 \$324 (\$24) \$300	\$310 (\$5) \$428 \$480 (\$52) \$428
Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Reliability Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Financial Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)	fit: Forecast  fit: Forecast  fit: Forecast  fit: Forecast  fit: Forecast	\$15 \$0 \$20 \$24 (\$4)	\$15 \$0 \$20 \$24 (\$4)	\$35 (\$5) \$38 \$54 (\$16)	\$35 <b>\$0</b> \$50 \$54 <b>(\$4)</b>	\$210 \$0 \$300 \$324 (\$24)	\$310 (\$5) \$428 \$480 (\$52)
Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Reliability Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Financial Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Total	fit: Forecast  fit: fit: Forecast  Forecast  fit: fit: Forecast  fit: Forecast	\$15 \$0 \$20 \$24 (\$4) \$20 \$24 (\$4)	\$15 \$0 \$20 \$24 (\$4) \$20 \$24 (\$4)	\$35 (\$5) \$38 \$54 (\$16) \$38	\$35 \$0 \$50 \$54 (\$4) \$50 \$54 (\$4)	\$210 \$0 \$300 \$324 (\$24) \$300 \$324 (\$24)	\$310 (\$5) \$428 \$480 (\$52) \$428 \$480 (\$52)
Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Reliability Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Financial Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Total Modeled Mitigation Bener Results/Projection B(W)  Total Modeled Mitigation Benere	fit: Forecast  fit: fit: Forecast  Forecast  fit: fit: Forecast  fit: Forecast	\$15 \$0 \$20 \$24 (\$4) \$20	\$15 \$0 \$20 \$24 (\$4) \$20	\$35 (\$5) \$38 \$54 (\$16) \$38	\$35 <b>\$0</b> \$50 \$54 <b>(\$4)</b> \$50 \$54	\$210 \$0 \$300 \$324 (\$24) \$300	\$310 (\$5) \$428 \$480 (\$52) \$428
Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W) Reliability Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W) Financial Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection Modeled Mitigation Bene Results/Projection B(W) Total Modeled Mitigation Bene Results/Projection	fit: Forecast  Forecast  fit: Forecast  Forecast  fit: Forecast  fit: Forecast  fit: Forecast	\$15 \$0 \$20 \$24 (\$4) \$20 \$24 (\$4)	\$15 \$0 \$20 \$24 (\$4) \$20 \$24 (\$4)	\$35 (\$5) \$38 \$54 (\$16) \$38 \$54 (\$16)	\$35 \$0 \$50 \$54 (\$4) \$50 \$54 (\$4)	\$210 \$0 \$300 \$324 (\$24) \$300 \$324 (\$24)	\$310 (\$5) \$428 \$480 (\$52) \$428 \$480 (\$52)
Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Reliability Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Financial Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection Modeled Mitigation Bener Results/Projection B(W)  Total Modeled Mitigation Bener Results/Projection B(W)  Total Modeled Mitigation Bener Results/Projection B(W)	fit: Forecast  Forecast  fit: Forecast  Forecast  fit: Forecast  fit: Forecast  fit: Forecast  fit: Forecast	\$15 \$0 \$20 \$24 (\$4) \$20 \$24 (\$4)	\$15 \$0 \$20 \$24 (\$4) \$20 \$24 (\$4)	\$35 (\$5) \$38 \$54 (\$16) \$38	\$35 \$0 \$50 \$54 (\$4) \$50 \$54 (\$4)	\$210 \$0 \$300 \$324 (\$24) \$300 \$324 (\$24)	\$310 (\$5) \$428 \$480 (\$52) \$428 \$480 (\$52)

e. Expected Value Risk Mitigation Benefit and Cost by Mitigation for each Risk Event Table

WILDFIRE MITIGA	ATION BENE	FIT FOR EACH	MITIGAT	ION	
Hierarchy	Enterprise				
Risk Events	Wildfire				
Scenario	Results vs. Fore	ecast and Projection	ns vs. Foreca	ast	
Version	Model 2.1	,			
Time	Year 3 and Year	rs 1-3			
Sub-table 1. Mitigation Benefi	it and Cost Over	rview			
	Expected	Value Risk	Results B	(W) Forecast	
<u>Y3</u>	Results Y3	Forecast Y3	\$	0/0	
Undergrounding (UG)					
Modeled Mitigation Benefit	\$51	\$80	-\$29	-36%	
Actual Mitigation Cost	\$250	\$0	-\$250		
Covered Conductor (CC)					
Modeled Mitigation Benefit	\$55	\$63	-\$8	-13%	
Actual Mitigation Cost	\$10	\$10	\$0	0%	
	Expected	Value Risk	Results B(W) Foreca		
X 74 X 70	D 1. X/4X/0	E . X/4X/0		0.7	
<u>Y1Y3</u>	Results Y1Y3	Forecast Y1Y3	\$	%	
Y1Y3 Underground (UG)	Results Y1Y3	Forecast Y1Y3	\$	%	
Underground (UG) Modeled Mitigation Benefit	\$51	\$80	<b>\$</b> -\$29	-36%	
Underground (UG)			·		
Underground (UG)  Modeled Mitigation Benefit  Actual Mitigation Cost  Covered Conductor (CC)	\$51	\$80	-\$29	-36%	
Underground (UG)  Modeled Mitigation Benefit  Actual Mitigation Cost	\$51	\$80	-\$29	-36%	
Underground (UG)  Modeled Mitigation Benefit  Actual Mitigation Cost  Covered Conductor (CC)	\$51 \$550 \$165 \$220	\$80 \$500 \$189 \$220	-\$29 -\$50	-36% -10%	
Underground (UG)  Modeled Mitigation Benefit Actual Mitigation Cost Covered Conductor (CC)  Modeled Mitigation Benefit	\$51 \$550 \$165 \$220	\$80 \$500 \$189	-\$29 -\$50 -\$24 \$0 <b>Project</b>	-36% -10% -13% 0% etion B(W)	
Underground (UG)  Modeled Mitigation Benefit Actual Mitigation Cost  Covered Conductor (CC)  Modeled Mitigation Benefit Actual Mitigation Cost	\$51 \$550 \$165 \$220 <b>Expected</b>	\$80 \$500 \$189 \$220 <b>Value Risk</b>	-\$29 -\$50 -\$24 \$0 <b>Project</b>	-36% -10% -13% 0% etion B(W)	
Underground (UG)  Modeled Mitigation Benefit Actual Mitigation Cost  Covered Conductor (CC)  Modeled Mitigation Benefit Actual Mitigation Cost  Projection Total	\$51 \$550 \$165 \$220	\$80 \$500 \$189 \$220	-\$29 -\$50 -\$24 \$0 <b>Project</b>	-36% -10% -13% 0% etion B(W)	
Underground (UG)  Modeled Mitigation Benefit Actual Mitigation Cost Covered Conductor (CC)  Modeled Mitigation Benefit Actual Mitigation Cost  Projection Total Underground (UG)	\$51 \$550 \$165 \$220 <u>Expected</u> Projection	\$80 \$500 \$189 \$220 <b>Value Risk</b>	-\$29 -\$50 -\$24 \$0 <b>Projec</b> Fo	-36% -10% -13% 0% etion B(W) precast	
Underground (UG)  Modeled Mitigation Benefit Actual Mitigation Cost Covered Conductor (CC) Modeled Mitigation Benefit Actual Mitigation Cost  Projection Total Underground (UG)  Modeled Mitigation Benefit	\$51 \$550 \$165 \$220 Expected Projection	\$80 \$500 \$189 \$220 <b>Value Risk</b> <b>Forecast</b>	-\$29 -\$50 -\$24 \$0 <b>Project</b> <b>Fo</b> \$	-36% -10%  -13% 0%  ction B(W)  precast %  -5%	
Underground (UG)  Modeled Mitigation Benefit Actual Mitigation Cost Covered Conductor (CC) Modeled Mitigation Benefit Actual Mitigation Cost  Projection Total Underground (UG)  Modeled Mitigation Benefit Actual Mitigation Cost	\$51 \$550 \$165 \$220 <u>Expected</u> Projection	\$80 \$500 \$189 \$220 <b>Value Risk</b>	-\$29 -\$50 -\$24 \$0 <b>Projec</b> Fo	-36% -10% -13% 0% etion B(W) precast	
Underground (UG) Modeled Mitigation Benefit Actual Mitigation Cost Covered Conductor (CC) Modeled Mitigation Benefit Actual Mitigation Cost  Projection Total Underground (UG) Modeled Mitigation Benefit Actual Mitigation Cost Covered Conductor (CC)	\$51 \$550 \$165 \$220 <b>Expected</b> <b>Projection</b> \$611 \$550	\$80 \$500 \$189 \$220 <b>Value Risk</b> <b>Forecast</b> \$640 \$500	-\$29 -\$50 -\$24 \$0 <b>Projec</b> <b>Fo</b> \$ -\$29 -\$50	-36% -10%  -13% 0% etion B(W) precast % -5% -10%	
Underground (UG)  Modeled Mitigation Benefit Actual Mitigation Cost Covered Conductor (CC) Modeled Mitigation Benefit Actual Mitigation Cost  Projection Total Underground (UG)  Modeled Mitigation Benefit Actual Mitigation Cost	\$51 \$550 \$165 \$220 Expected Projection	\$80 \$500 \$189 \$220 <b>Value Risk</b> <b>Forecast</b>	-\$29 -\$50 -\$24 \$0 <b>Project</b> <b>Fo</b> \$	-36% -10%  -13% 0%  ction B(W)  precast %  -5%	

Sub-table 2. Mitigation Benefits and Mitigation Costs: Details										
	Results Projection									
Average Risk	Year 1	Year 2	Year 3	Year 4	Year 5 to Expected Life	Total				
<u>UG</u>										
Modeled Mitigation Benefit: Results/Projection	\$0	\$0	\$51	\$80	\$480	\$611				
Modeled Mitigation Benefit: Forecast	\$0	\$0	\$80	\$80	\$480	\$640				
Results/Projection B(W) Forecast	\$0	\$0	(\$29)	\$0	\$0	(\$29)				
Actual/Modeled Mitigation Costs: Results/Projection	\$0	\$300	\$250	\$0	\$0	\$550				
Modeled Mitigation Cost: Forecast	\$0	\$500	\$0	\$0	\$0	\$500				
Results/Projection B(W) Forecast	\$0	\$200	(\$250)	\$0	\$0	(\$50)				
CC										
Modeled Mitigation Benefit: Results/Projection	\$55	\$55	\$55	\$55	\$330	\$550				
Modeled Mitigation Benefit: Forecast	\$63	\$63	\$63	\$63	\$378	\$630				
Results/Projection B(W) Forecast	(\$8)	(\$8)	(\$8)	(\$8)	(\$48)	(\$80)				
Actual/Modeled Mitigation Costs: Results/Projection	\$200	\$10	\$10	\$10	\$60	\$290				
Modeled Mitigation Cost: Forecast	\$200	\$10	\$10	\$10	\$60	\$290				
Results/Projection B(W) Forecast	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0				
Total										
Modeled Mitigation Benefit:	\$55	\$55	\$106	\$135	\$810	\$1,161				
Results/Projection										
Modeled Mitigation Benefit: Forecast	\$63	\$63	\$143	\$143	\$858	\$1,270				
Results/Projection B(W) Forecast	(\$8)	(\$8)	(\$37)	(\$8)	(\$48)	(\$109)				
Actual/Modeled Mitigation Costs: Results/Projection	\$200	\$310	\$260	\$10	\$60	\$840				
Modeled Mitigation Cost: Forecast	\$200	\$510	\$10	\$10	\$60	\$790				
Results/Projection B(W) Forecast	\$0	\$200	(\$250)	<b>\$</b> 0	\$0	(\$50)				

# f. Expected Value Risk Reduction by Risk Event Table

RISK EVEN	Г ЕХРЕСТЕО	VALUE RISK R	EDUCTION								
Hierarchy	Enterprise										
Risk Events	All	A11									
Scenario	Results vs. F	Results vs. Forecast, Results & Projections									
Version	Model 2.1	,									
Time	Year 3 and Y	Zears 1-3									
	ıble 1. Expecte	d Value Risk Red	luction Overvie	W							
		Y3	Results B(V								
Wildfire	Results	Forecast	\$	%							
Pre-mitigated Risk	\$870	\$870									
Risk Reduction	\$106	\$143	(\$37)	-26%							
Post-mitigated Risk	\$764	\$727									
Cyber											
Pre-mitigated Risk	\$249	\$249									
Risk Reduction	\$12	\$12	\$0	0%							
Post-mitigated Risk	\$237	\$237									
Hydro											
Pre-mitigated Risk	\$581	\$581									
Risk Reduction	\$50	\$60	(\$10)	-17%							
Post-mitigated Risk	\$531	\$521									
Total											
Pre-mitigated Risk	<b>\$1,</b> 700	<b>\$1,7</b> 00									
Risk Reduction	\$168	\$215	(\$47)	-22%							
Post-mitigated Risk	\$1,532	\$1,485									
Sub-table 2. Expected Value	e Risk Reduction										
		Results		Projections							
	Year 1	Year 2	Year 3	Year 4							
<u>Wildfire</u>											
Pre-mitigated Risk	\$870										
Risk Reduction	\$55	\$55	\$106	\$135							
Post-mitigated Risk	\$815	\$815	\$764	\$735							
<u>Cyber</u>											
Pre-mitigated Risk	\$249										
Risk Reduction	\$12	\$12	\$12	\$12							
Post-mitigated Risk	\$237	\$237	\$237	\$237							
<u>Hydro</u>											
Pre-mitigated Risk	\$581										
Risk Reduction	\$0	\$0	\$50	\$50							
Post-mitigated Risk	\$581	\$581	\$531	\$531							
<u>Total</u>											
Pre-mitigated Risk	\$1,700										
Risk Reduction	\$67	\$67	\$168	\$197							
Post-mitigated Risk	\$1,633	\$1,633	\$1,532	\$1,503							

# g. Expected Value Risk Reduction by Tranche Table

WILDFIRE TRANCHE RISK REDUCTION Y3							
Hierarchy	Enterprise						
Risk Events	Wildfire						
Scenario	Results vs. Forecast						
Version	Model 2.1						
Time	Year 3						

	Tranche Number																									
	Total	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Expected Value Risk																										
Pre-mitigated risk	\$870	\$191	\$87	\$61	\$52	\$44	\$35	\$35	\$35	\$35	\$35	\$26	\$26	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$9	\$9
Tranche share	100%	22%	10%	7%	6%	5%	4%	4%	4%	4%	4%	3%	3%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	1%	1%
Risk Reduction																										
Results	\$106	\$10	\$5	\$4	\$25	\$24	\$10	\$11	\$13	\$2	\$1	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Forecast	\$143	\$19	\$8	\$6	\$31	\$26	\$15	\$14	\$17	\$3	\$2	\$2	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0
Results B(W) Forecast	-26%	-47%	-38%	-33%	-20%	-8%	-33%	-21%	-24%	-33%	-50%	-50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Torcust																										
Post-mitigated risk																										
Results	\$764	\$181	\$82	\$57	\$27	\$20	\$25	\$24	\$22	\$33	\$34	\$25	\$26	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$9	\$9
Forecast	\$727	\$172	\$79	\$55	\$21	\$18	\$20	\$21	\$18	\$32	\$33	\$24	\$26	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$17	\$9	\$9
Results B(W) Forecast	-5%	-5%	-4%	-4%	-30%	-11%	-25%	-14%	-22%	-3%	-3%	-4%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Tranche share (Results)	100%	24%	11%	7%	4%	3%	3%	3%	3%	4%	4%	3%	3%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	2%	1%	1%

h. Tail Average Risk Reduction by Risk Event Table (Optional)

RISK EVENT TA	VIL AVER	AGE RISK	REDUCTIO	N							
Hierarchy	Enterpris										
Risk Events	Wildfire										
Scenario	Results v	s. Forecast,	Results & Proje	ctions							
Version	Model 2.		,								
Time	Year 3 an	nd Years 1-3									
Sub-table 1. Tail	Sub-table 1. Tail Average Risk Reduction Overview*										
	Y3 Results B(W) Forecas										
	Results	Forecast	\$	0/0							
Wildfire											
Pre-mitigated Risk	\$4,600	<b>\$4,</b> 600									
Risk Reduction	\$507	\$679	(\$172)	-25%							
Post-mitigated Risk	\$4,093	\$3,921	(" - 7								
Cyber	₩ 1,5020	πο,,,=1									
Pre-mitigated Risk	\$1,160	\$1,160									
Risk Reduction		\$72	\$0	0%							
	\$72	"	ЪО	U%0							
Post-mitigated Risk	\$1,088	\$1,088									
Hydro											
Pre-mitigated Risk	\$3,480	<b>\$3,4</b> 80									
Risk Reduction	\$325	\$390	(\$65)	-17%							
Post-mitigated Risk	\$3,155	\$3,090									
Total											
Pre-mitigated Risk	\$8,400	\$8,400									
Risk Reduction	\$868	\$1,099	(\$231)	-21%							
Post-mitigated Risk	\$7,532	\$7,301									
*Tail #Risk is not additive											
Sub-table 2. Tail Average Risl	Reduction	on Y1Y4*									
		Results	;	Projections							
	Year 1	Year 2	Year 3	Year 4							
Wildfire											
Pre-mitigated Risk	\$4,600										
Risk Reduction	\$275	\$275	\$507	\$639							
Post-mitigated Risk	\$4,325	\$4,325	\$4,093	\$3,961							
Cyber											
Pre-mitigated Risk	\$1,160										
Risk Reduction	\$72	\$72	\$72	\$72							
Post-mitigated Risk	\$1,088	\$1,088	\$1,088	\$1,088							
Hydro	<b>#2.40</b> 0										
Pre-mitigated Risk	\$3,480	¢0	<b>\$20</b> 5	\$20F							
Risk Reduction	\$0	\$0	\$325 \$3.155	\$325 \$3.155							
Post-mitigated Risk Total	\$3,480	\$3,480	\$3,155	\$3,155							
Pre-mitigated Risk	\$8,400										
Risk Reduction	\$340	\$340	\$868	\$1,000							
Post-mitigated Risk	\$8,060	\$8,060	\$7,532	\$7,400							
*Tail #Risk is not additive	₩ O,000	₩ O 9 O O O	T 1,000	π', 'Ο							
2 WALL AND TO HOU MUUTU YO											

Matigatian	1/1/0 rl/	autto bull	ハルけいべつけいへい ナ	tor oooh Di	isk Event Table
 IVIIIIVAIIIII	VVIIIK LIIIII BE		viiiiyaiiiii i	OI PACIL BI	SK EVELLI JALLIE
 1 IIIISUUUII	VVOIN OILLION	Julio Dy I	IIIISationi	or odorrin	ON EVOITE TOOLS

W	ILDFIRE MITI	GATION WORK	UNITS									
Hierarchy	Enterprise											
Risk Events	Wildfire											
Scenario	Results vs. Forecast and Projections vs. Forecast											
Version	Model 2.1											
Time	Year 3 and Years 1-3											
Sub-table 1. Work Units												
Work Units Y3			Results B	(W) Forecast								
	Results Y3	Forecast Y3	\$	0/0								
Circuit Miles												
UG	250	0	250	0%								
CC	0	0	0									
Total Mitigated	250	0	250									
Work Units Y1Y3			F	Results B(W) Forecast								
	Results Y1Y3	Forecast Y1Y3	\$	%								
Circuit Miles												
UG	1,000	1,400	(\$400)	-29%								
CC	380	400	(\$20)	-5%								
Total Mitigated	1,380	1,800	(\$420)	-23%								
Work Units Projection			Pr	ojection B(W) Forecast								
	Projection	Forecast	\$	%								
Circuit Miles												
UG	1,320	1,400	(\$80)	-6%								
CC	380	400	(\$20)	-5%								
Total Mitigated	1,700	1,800	(\$100)	-6%								

## **RMAR Required Narrative Sections**

- 1. Include a narrative description of every table listed in the Required Tables and Table Elements. Explain any deficiencies or negative variances to the plan found in these tables. Explain what steps the utility intends to take to address these deficiencies and negative variances.
- 2. Include a narrative description of a Risk Reporting Unit (RRU) which enables aggregation of reports.
- 3. Include a narrative description of any discrepancies between the modeled risk and the actual outcomes recorded during the previous GRC cycle.
- 4. Include a narrative section that describes any new tranche structures that were not used in a previous RAMP or GRC Cycle. Provide details of the key that is used as a bridge between the old and new tranche structures. This key must also be filed with the RMAR.
- 5. Include a narrative description of any subjective elements and assumptions related to each mitigation that have changed during the most recent update to the RMAR. The narrative must explain how the change has affected any RMAR information from the Plan Phase.
- 6. Include a narrative justification for assigning attribution for risk reduction from each mitigation. The utility must explain the causal mechanism that allows them to infer attribution. The utility must also highlight any additional factors other than the mitigation

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- itself that could have contributed to any apparent risk reduction. Any assumptions or SME judgements must be made transparent.
- 7. Include a narrative discussion describing the model and data quality as well as certifies that internal quality control requirements have been met. This section should include description of any sensitivity analysis that was conducted on various model inputs or assumptions for each mitigation. This section can draw from the results of the Transparency Guidelines<sup>3</sup> or whatever sensitivity analyses are required by a future Decision in this or a successor proceeding or a Staff Resolution. The utility must also provide tables or workpapers to back up any sensitivity analysis results discussed in this narrative section.

<sup>&</sup>lt;sup>3</sup> D.24-05-064, Appendix B.