



Risk Assessment and Mitigation Phase
(Chapter SDG&E-Risk-4-WP)
Incident Involving a Contractor
Workpapers

May 17, 2021

2021 RAMP
SDG&E-Risk-4-WP
Risk Factors Recorded and Forecast Costs Incurred Workpaper
Tab: Incurred\$
(2020 Direct \$000)

RAMP Chapter ID	RAMP Chapter Name	Control / Mitigation ID	Control / Mitigation Name	RECORDED DOLLARS										FORECAST DOLLARS												Shared Allocations (Yes/No)							
				O&M					Capital					O&M				Capital															
				2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2022		2023		2024		2022		2023		2024									
											\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High											
SDG&E-Risk-4	Incident Involving a Contractor	C1	Contractor Oversight Program	\$ 36	\$ 15	\$ 18	\$ 974	\$ 1,148	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,008	\$ 1,220	\$ 1,008	\$ 1,220	\$ 1,008	\$ 1,220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No					
SDG&E-Risk-4	Incident Involving a Contractor	C2	Field Safety Oversight	\$ -	\$ -	\$ -	\$ 267	\$ 433	\$ 739	\$ 762	\$ 786	\$ 2,404	\$ 3,894	\$ -	\$ 500	\$ 605	\$ 500	\$ 605	\$ 500	\$ 605	\$ 4,500	\$ 5,447	\$ 4,500	\$ 5,447	\$ 4,500	\$ 5,447	No						
SDG&E-Risk-4	Incident Involving a Contractor	C3	Safety Culture	\$ 12	\$ 12	\$ 12	\$ 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11	\$ 14	\$ 11	\$ 14	\$ 11	\$ 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No					
SDG&E-Risk-4	Incident Involving a Contractor	M1	Enterprise-Wide Contractor Incident and Schedule Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19	\$ 23	\$ 95	\$ 115	\$ 95	\$ 115	\$ 95	\$ 115	No						
SDG&E-Risk-4	Incident Involving a Contractor	M2	Enhanced Verification of Class 1 Contractor Employee Specific Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38	\$ 46	\$ 190	\$ 230	\$ 190	\$ 230	\$ 190	\$ 230	No						
SDG&E-Risk-4	Incident Involving a Contractor	A1	SAP Contractor Incident Portal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95	\$ 115	\$ 95	\$ 115	\$ 95	\$ 115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No						
SDG&E-Risk-4	Incident Involving a Contractor	A2	Use internal resources and tools to vet contractors for safety	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95	\$ 115	\$ 95	\$ 115	\$ 95	\$ 115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No						
NOTES:																																	
[1] The figures provided are direct charges and do not include company loaders, with the exception of vacation and sick. The costs are also in 2020 dollars and have not been escalated to 2021 amounts.																																	
[2] Costs are provided, where available, for all activities regardless of whether a RSE analysis was performed.																																	

2021 RAMP

SDG&E-Risk-4-WP

Risk Factors Recorded and Forecast Costs Shared Allocations Workpaper

Tab: Shared Allocations

(2020 Direct \$000)

RAMP Chapter ID	RAMP Chapter Name	Control / Mitigation ID	Control / Mitigation Name	Shared Allocations			
				Retained	SoCalGas	Sempra Energy	Other
SDG&E-Risk-4	Incident Involving a Contractor	C1	Contractor Oversight Program	100%	0%	0%	0%
SDG&E-Risk-4	Incident Involving a Contractor	C2	Field Safety Oversight	100%	0%	0%	0%
SDG&E-Risk-4	Incident Involving a Contractor	C3	Safety Culture	100%	0%	0%	0%
SDG&E-Risk-4	Incident Involving a Contractor	M1	Enterprise-Wide Contractor Incident and Schedule Management	100%	0%	0%	0%
SDG&E-Risk-4	Incident Involving a Contractor	M2	Enhanced Verification of Class 1 Contractor Employee Specific Training	100%	0%	0%	0%
SDG&E-Risk-4	Incident Involving a Contractor	A1	SAP Contractor Incident Portal	100%	0%	0%	0%
SDG&E-Risk-4	Incident Involving a Contractor	A2	Use internal resources and tools to vet contractors for safety	100%	0%	0%	0%

2021 RAMP
SDG&E-Risk-4-WP
Risk Factors Recorded and Forecast Costs After Allocations Workpaper
Tab: After Allocations\$
(2020 Direct \$000)

RAMP Chapter ID	RAMP Chapter Name	Control / Mitigation ID	Control / Mitigation Name	RECORDED DOLLARS										FORECAST DOLLARS													
				O&M					Capital					O&M				Capital				Capital					
				2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2022		2023		2024		2022		2023		2024			
														\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High		
SDG&E-Risk-4	Incident Involving a Contractor	C1	Contractor Oversight Program	\$ 36	\$ 15	\$ 18	\$ 974	\$ 1,148	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,008	\$ 1,220	\$ 1,008	\$ 1,220	\$ 1,008	\$ 1,220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
SDG&E-Risk-4	Incident Involving a Contractor	C2	Field Safety Oversight	\$ -	\$ -	\$ -	\$ 267	\$ 433	\$ 739	\$ 762	\$ 786	\$ 2,404	\$ 3,894	\$ 500	\$ 605	\$ 500	\$ 605	\$ 500	\$ 605	\$ 4,500	\$ 5,447	\$ 4,500	\$ 5,447	\$ 4,500	\$ 5,447		
SDG&E-Risk-4	Incident Involving a Contractor	C3	Safety Culture	\$ 12	\$ 12	\$ 12	\$ 12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11	\$ 14	\$ 11	\$ 14	\$ 11	\$ 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
SDG&E-Risk-4	Incident Involving a Contractor	M1	Enterprise-Wide Contractor Incident and Schedule Management Enhanced Verification of Class 1 Contractor Employee Specific	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19	\$ 23	\$ 95	\$ 115	\$ 95	\$ 115		
SDG&E-Risk-4	Incident Involving a Contractor	M2	Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38	\$ 46	\$ 190	\$ 230	\$ 190	\$ 230	\$ 190	\$ 230	
SDG&E-Risk-4	Incident Involving a Contractor	A1	SAP Contractor Incident Portal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95	\$ 115	\$ 95	\$ 115	\$ 95	\$ 115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
SDG&E-Risk-4	Incident Involving a Contractor	A2	Use internal resources and tools to vet contractors for safety	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95	\$ 115	\$ 95	\$ 115	\$ 95	\$ 115	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
NOTES:																											
[1] The figures provided are direct charges and do not include company loaders, with the exception of vacation and sick. The costs are also in 2020 dollars and have not been escalated to 2021 amounts.																											
[2] Costs are provided, where available, for all activities regardless of whether a RSE analysis was performed.																											

2021 RAMP
SDG&E-Risk-4-WP
Risk Factors Recorded and Forecast Costs Units Workpaper
Tab: Units

RAMP Chapter ID	RAMP Chapter Name	Control / Mitigation ID	Control / Mitigation Name	Units Description		RECORDED UNITS										FORECAST UNITS											
						O&M					Capital					O&M					Capital						
				Capital	O&M	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2022		2023		2024		2022		2023		2024	
																Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
SDG&E-Risk-4	Incident Involving a Contractor	C1	Contractor Oversight Program	FTEs	FTEs	-	-	-	7	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
SDG&E-Risk-4	Incident Involving a Contractor	C2	Field Safety Oversight	3rd party contractors	3rd party contractors	-	-	-	1	2	4	4	4	13	21	3	4	3	4	3	4	8	9	8	10		
SDG&E-Risk-4	Incident Involving a Contractor	C3	Safety Culture	# of joint meetings	# of joint meetings	1	1	1	1	-	-	-	-	-	-	4	6	4	6	4	6	-	-	-	-		
SDG&E-Risk-4	Incident Involving a Contractor	M1	Enterprise-Wide Contractor Incident and Schedule Management	contractor	contractor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1		
SDG&E-Risk-4	Incident Involving a Contractor	M2	Enhanced Verification of Class 1 Contractor Employee Specific Training	contractor	contractor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	2		
SDG&E-Risk-4	Incident Involving a Contractor	A1	SAP Contractor Incident Portal	internal IT resources	internal IT resources	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	-	-	-		
SDG&E-Risk-4	Incident Involving a Contractor	A2	Use internal resources and tools to vet contractors for safety	FTEs	FTEs	-	-	-	-	-	-	-	-	-	-	10	11	10	11	10	11	-	-	-	-		