



Risk Assessment and Mitigation Phase
(Chapter SDG&E-Risk-8-WP)
Incident Involving an Employee
Workpapers

May 17, 2021

2021 RAMP
SDG&E-Risk-8-WP
Risks Recorded and Forecast Costs Incurred Allocations 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					2022				2023				2024								
				2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High					
SDG&E-Risk-8	Incident Involving an Employee	C1	Mandatory Employee Health and Safety Training Programs and	\$ 584	\$ 540	\$ 560	\$ 409	\$ 817	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 776	\$ 940	\$ 776	\$ 940	\$ 776	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C2	Drug and Alcohol Testing Program	\$ 228	\$ 212	\$ 233	\$ 142	\$ 200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 171	\$ 208	\$ 171	\$ 208	\$ 171	\$ 208	\$ 171	\$ 208	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C3	Strong Safety Culture	\$ 290	\$ 188	\$ 313	\$ 246	\$ 116	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 223	\$ 270	\$ 119	\$ 144	\$ 223	\$ 270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C4	Employee Behavioral Accident Prevention Process Program	\$ 595	\$ 527	\$ 759	\$ 1,046	\$ 777	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 818	\$ 990	\$ 818	\$ 990	\$ 818	\$ 990	\$ 818	\$ 990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C5	A Comprehensive Environmental & Safety Compliance Management	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C6	Employee Safety Communications and Awareness Programs	\$ 243	\$ 260	\$ 242	\$ 313	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C7	Employee Wellness Programs	\$ 862	\$ 759	\$ 730	\$ 817	\$ 769	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 733	\$ 888	\$ 733	\$ 888	\$ 733	\$ 888	\$ 733	\$ 888	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C8	OSHA Voluntary Protection Program	\$ -	\$ -	\$ 50	\$ 11	\$ 219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 475	\$ 575	\$ 475	\$ 575	\$ 475	\$ 575	\$ 475	\$ 575	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C9	Safe Driving Programs	\$ 131	\$ 124	\$ 267	\$ 85	\$ 94	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 89	\$ 108	\$ 81	\$ 98	\$ 89	\$ 108	\$ 81	\$ 98	\$ 89	\$ 108	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C10	Personal Protective Equipment	\$ 96	\$ 43	\$ 229	\$ 1,322	\$ 1,778	\$ 30	\$ 1,510	\$ 1,461	\$ -	\$ -	\$ -	\$ 1,689	\$ 2,045	\$ 1,689	\$ 2,045	\$ 1,689	\$ 2,045	\$ 1,689	\$ 2,045	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C11	Jobsite Safety Programs	\$ 5,258	\$ 6,953	\$ 8,974	\$ 1,969	\$ 2,750	\$ -	\$ -	\$ -	\$ -	\$ 60	\$ 352	\$ 2,108	\$ 2,551	\$ 2,108	\$ 2,551	\$ 2,108	\$ 2,551	\$ 2,108	\$ 2,551	\$ 126	\$ 153	\$ 126	\$ 153	\$ 402	\$ 486	No	
SDG&E-Risk-8	Incident Involving an Employee	C12	Utilizing OSHA and Industry Best Practices and Industry Benchmarking	\$ 218	\$ 492	\$ 680	\$ 780	\$ 703	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 668	\$ 808	\$ 668	\$ 808	\$ 668	\$ 808	\$ 668	\$ 808	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C13	Enhanced Mandatory Employee Training (OSHA): Certified Occupational Safety Specialist, Certified Utility Safety Professional; Certified Safety Professional	\$ -	\$ -	\$ -	\$ 11	\$ 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14	\$ 17	\$ 14	\$ 17	\$ 14	\$ 17	\$ 14	\$ 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C14	Enhanced Safety in Action Program	\$ -	\$ -	\$ -	\$ -	\$ 133	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 147	\$ 178	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C15	Enhanced Employee Safe Driving Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 68	\$ 345	\$ 523	\$ 633	\$ 523	\$ 633	\$ 523	\$ 633	\$ 523	\$ 633	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C16	Energized Skills Training and Testing Yard	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 549	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	C17	Employee Wildfire Smoke Protection – Cal/OSHA emergency regulation	\$ -	\$ -	\$ -	\$ -	\$ 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16	\$ 20	\$ 16	\$ 20	\$ 16	\$ 20	\$ 16	\$ 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	M1	Purchasing and testing more protective respiratory protection for wildfire smoke particulates.	\$ -	\$ -	\$ -	\$ -	\$ 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	M2	Purchasing break/feet trailers with filtered air systems to reduce wildfire smoke exposure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 143	\$ 173	\$ 143	\$ 173	\$ 143	\$ 173	\$ 143	\$ 173	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	M3	Automate notifications and employee communications when the Air Quality Index PM2.5 reaches specific thresholds during a wildfire in our service territory	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38	\$ 46	\$ 38	\$ 46	\$ 38	\$ 46	\$ 38	\$ 46	\$ 38	\$ 46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	M4	Instructional designer support to update & convert safety training curriculum to web based	\$ -	\$ -	\$ -	\$ -	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23	\$ 28	\$ 22	\$ 31	\$ 22	\$ 31	\$ 22	\$ 31	\$ 22	\$ 31	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	A1	Piloted Alert Driving	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
SDG&E-Risk-8	Incident Involving an Employee	A2	Modernizing Safety Video Library	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No
NOTES:																														
[1] The figures provided are direct charges and do not include company loaders, with the exception of vacation. 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.																														
[3] The following control is not included in this risk's control and mitigation plan for 2022 - 2024 for reasons discussed in the Chapter narrative: C 16 - Energized Skills Training and Testing Yard																														

2021 RAMP
SDG&E-Risk-8-WP
Risks 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-8	Incident Involving an Employee	C1	Mandatory Employee Health and Safety Training Programs and Standardized Policies	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C2	Drug and Alcohol Testing Program	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C3	Strong Safety Culture	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C4	Employee Behavioral Accident Prevention Process Program	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C5	A Comprehensive Environmental & Safety Compliance Management Program	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C6	Employee Safety Communications and Awareness Programs	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C7	Employee Wellness Programs	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C8	OSHA Voluntary Protection Program	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C9	Safe Driving Programs	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C10	Personal Protective Equipment	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C11	Jobsite Safety Programs	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C12	Utilizing OSHA and Industry Best Practices and Industry Benchmarking	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C13	Enhanced Mandatory Employee Training (OSHA): Certified Occupational Safety Specialist, Certified Utility Safety Professional; Certified Safety Professional	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C14	Enhanced Safety in Action Program	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C15	Enhanced Employee Safe Driving Training	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C16	Energized Skills Training and Testing Yard	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	C17	Employee Wildfire Smoke Protection – Cal/OSHA emergency regulation	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	M1	Purchasing and testing more protective respiratory protection for wildfire smoke particulates.	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	M2	Purchasing break/rest trailers with filtered air systems to reduce wildfire smoke exposure	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	M3	Automate notifications and employee communications when the Air Quality Index PM2.5 reaches specific thresholds during a wildfire in our service territory	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	M4	Instructional designer support to update & convert safety training curriculum to web based	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	A1	Piloted Alert Driving	100%	0%	0%	0%
SDG&E-Risk-8	Incident Involving an Employee	A2	Modernizing Safety Video Library	100%	0%	0%	0%

2021 RAMP
SDG&E-Risk-8-WP
Risks 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									
				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-8	Incident Involving an Employee	C1	Mandatory Employee Health and Safety Training Programs and Standardized Policies	\$ 584	\$ 540	\$ 560	\$ 409	\$ 817	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 776	\$ 940	\$ 776	\$ 940	\$ 776	\$ 940	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C2	Drug and Alcohol Testing Program	\$ 228	\$ 212	\$ 233	\$ 142	\$ 200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 171	\$ 208	\$ 171	\$ 208	\$ 171	\$ 208	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C3	Strong Safety Culture	\$ 290	\$ 188	\$ 313	\$ 246	\$ 116	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 223	\$ 270	\$ 119	\$ 144	\$ 223	\$ 270	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C4	Employee Behavioral Accident Prevention Process Program	\$ 595	\$ 527	\$ 759	\$ 1,046	\$ 777	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 818	\$ 990	\$ 818	\$ 990	\$ 818	\$ 990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C5	A Comprehensive Environmental & Safety Compliance Management Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C6	Employee Safety Communications and Awareness Programs	\$ 243	\$ 260	\$ 242	\$ 313	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C7	Employee Wellness Programs	\$ 862	\$ 759	\$ 730	\$ 817	\$ 769	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 733	\$ 888	\$ 733	\$ 888	\$ 733	\$ 888	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C8	OSHA Voluntary Protection Program	\$ -	\$ -	\$ 50	\$ 11	\$ 219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 475	\$ 575	\$ 475	\$ 575	\$ 475	\$ 575	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C9	Safe Driving Programs	\$ 131	\$ 124	\$ 267	\$ 85	\$ 94	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 89	\$ 108	\$ 81	\$ 98	\$ 89	\$ 108	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C10	Personal Protective Equipment	\$ 96	\$ 43	\$ 729	\$ 1,322	\$ 1,778	\$ 30	\$ 1,510	\$ 1,461	\$ -	\$ -	\$ -	\$ 1,689	\$ 2,045	\$ 1,689	\$ 2,045	\$ 1,689	\$ 2,045	\$ 1,689	\$ 2,045	\$ 1,689	\$ 2,045	\$ 1,689	\$ 2,045	
SDG&E-Risk-8	Incident Involving an Employee	C11	Jobite Safety Programs	\$ 2,258	\$ 6,953	\$ 8,974	\$ 1,969	\$ 2,750	\$ -	\$ -	\$ -	\$ -	\$ 60	\$ 352	\$ 2,108	\$ 2,551	\$ 2,108	\$ 2,551	\$ 2,108	\$ 2,551	\$ 2,108	\$ 2,551	\$ 2,108	\$ 2,551	\$ 2,108	\$ 2,551	
SDG&E-Risk-8	Incident Involving an Employee	C12	Utilizing OSHA and Industry Best Practices and Industry Enhanced Mandatory Employee Training (OSHA); Certified Occupational Safety Specialist, Certified Utility Safety Professional; Certified Safety Professional	\$ 218	\$ 492	\$ 680	\$ 780	\$ 703	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 668	\$ 808	\$ 668	\$ 808	\$ 668	\$ 808	\$ 668	\$ 808	\$ 668	\$ 808	\$ 668	\$ 808	
SDG&E-Risk-8	Incident Involving an Employee	C13	Enhanced Safety in Action Program	\$ -	\$ -	\$ -	\$ 11	\$ 11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34	\$ 17	\$ 14	\$ 17	\$ 14	\$ 17	\$ 14	\$ 17	\$ 14	\$ 17	\$ 14	\$ 17	
SDG&E-Risk-8	Incident Involving an Employee	C14	Enhanced Employee Safe Driving Training	\$ -	\$ -	\$ -	\$ -	\$ 133	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 147	\$ 178	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-8	Incident Involving an Employee	C15	Energized Skills Training and Testing Yard	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 68	\$ 345	\$ 523	\$ 633	\$ 523	\$ 633	\$ 523	\$ 633	\$ 523	\$ 633	\$ 523	\$ 633		
SDG&E-Risk-8	Incident Involving an Employee	C16	Employee Wildfire Smoke Protection – Cal/OSHA emergency regulation	\$ -	\$ -	\$ -	\$ -	\$ 17	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16	\$ 20	\$ 16	\$ 20	\$ 16	\$ 20	\$ 16	\$ 20	\$ 16	\$ 20	\$ 16	\$ 20	
SDG&E-Risk-8	Incident Involving an Employee	M1	Purchasing and testing more protective respiratory protection for wildfire smoke particulates.	\$ -	\$ -	\$ -	\$ -	\$ 5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2		
SDG&E-Risk-8	Incident Involving an Employee	M2	Purchasing break/rest trailers with filtered air systems to reduce wildfire smoke exposure.	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 143	\$ 173	\$ 143	\$ 173	\$ 143	\$ 173	\$ 143	\$ 173	\$ 143	\$ 173	\$ 143	\$ 173		
SDG&E-Risk-8	Incident Involving an Employee	M3	Automate notifications and employee communications when the Air Quality Index PM2.5 reaches specific thresholds during a wildfire in our service territory	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38	\$ 46	\$ 38	\$ 46	\$ 38	\$ 46	\$ 38	\$ 46	\$ 38	\$ 46	\$ 38	\$ 46		
SDG&E-Risk-8	Incident Involving an Employee	M4	Instructional designer support to update & convert safety training curriculum to web based	\$ -	\$ -	\$ -	\$ -	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23	\$ 28	\$ 22	\$ 31	\$ 22	\$ 31	\$ 22	\$ 31	\$ 22	\$ 31	\$ 22	\$ 31		
SDG&E-Risk-8	Incident Involving an Employee	A1	Piloted Alert Driving	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100	\$ 120	
SDG&E-Risk-8	Incident Involving an Employee	A2	Modernizing Safety Video Library	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50	\$ 100	
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-8-WP
Risks Recorded and Forecast Units Workpaper
Tab: Units

RAMP Chapter ID	RAMP Chapter Name	Control / Mitigation ID	Control / Mitigation Name	Units Description		RECORDED UNITS										FORECAST UNITS											
				Capital	O&M	O&M					Capital					O&M				Capital							
						2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2022	2023	2024	2022	2023	2024	2022	2023	2024			
SDG&E-Risk-8	Incident Involving an Employee	C1	Mandatory Employee Health and Safety Training Programs and Standardized Policies	employees	employees	4,400	4,400	4,400	4,400	4,400	-	-	-	-	-	4,400	4,800	4,400	4,800	4,400	4,800	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C2	Drug and Alcohol Testing Program	employees	surveys and conferences cost	1,704	1,704	1,704	1,704	1,704	-	-	-	-	-	2,217	2,684	2,217	2,684	1,704	1,960	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C3	Strong Safety Culture	employees	conferences cost	290	188	313	246	116	-	-	-	-	-	223	270	223	270	223	270	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C4	Employee Behavioral Accident Prevention Process Program	employees	employees	100	100	100	100	100	-	-	-	-	-	100	115	100	115	100	115	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C5	A Comprehensive Environmental & Safety Compliance Management Program	employees	employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C6	Employee Safety Communications and Awareness Programs	employees	employees	4,400	4,400	4,400	4,400	4,400	-	-	-	-	-	4,400	4,800	4,400	4,800	4,400	4,800	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C7	Employee Wellness Programs	employees	employees	4,400	4,400	4,400	4,400	4,400	-	-	-	-	-	4,400	4,800	4,400	4,800	4,400	4,800	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C8	OSHA Voluntary Protection Program	VPP locations	VPP locations	-	-	-	-	3	-	-	-	-	-	3	3	3	3	3	3	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C9	Safe Driving Programs	employees	employees	2,200	2,200	2,200	2,200	2,200	-	-	-	-	-	2,200	2,400	2,200	2,400	2,200	2,400	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C10	Personal Protective Equipment	employees	employees	4,400	4,400	4,400	4,400	4,400	-	10	10	-	-	4,400	4,800	4,400	4,800	4,400	4,800	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C11	Jobsite Safety Programs	employees	employees	1,985	1,985	1,985	1,985	1,985	-	-	-	1	245	1,985	2,282	1,985	2,282	1,985	2,282	139	180	140	161	456	524
SDG&E-Risk-8	Incident Involving an Employee	C12	Utilizing OSHA and Industry Best Practices and Industry Benchmarking	FEI & other	membership fees	218	492	680	780	703	-	-	-	-	-	703	808	703	808	703	808	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C13	Enhanced Mandatory Employee Training (OSHA): Certified	employees	employees	-	-	-	30	30	-	-	-	-	30	34	30	34	30	34	-	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C14	Enhanced Safety in Action Program	professional services cost	professional services cost	-	-	-	-	133	-	-	-	-	-	147	178	-	-	-	-	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C15	Enhanced Employee Safe Driving Training	vehicle installations	licensing cost	-	-	-	-	-	-	-	-	-	1,650	1,600	1,760	1,600	1,760	1,650	1,800	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C16	Energized Skills Training and Testing Yard	construction cost	construction cost	-	-	-	-	-	-	-	-	-	549	-	-	-	-	-	-	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	C17	Employee Wildfire Smoke Protection – CA/OSHA emergency regulation	employees requiring medical evaluations	employees requiring medical evaluations	-	-	-	-	650	-	-	-	-	-	650	747	650	747	650	747	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	M1	Purchasing and testing more protective respiratory protection for wildfire smoke particulates	replacement filters	replacement filters	-	-	-	-	-	-	-	-	-	-	40	46	40	46	40	46	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	M2	Purchasing break/rest trailers with filtered air systems to reduce wildfire smoke exposure	staging area trailers	staging area trailers	-	-	-	-	-	-	-	-	-	-	10	15	10	15	10	15	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	M3	Automate notifications and employee communications when the Air	internal FTE	internal FTE	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	-	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	M4	Instructional designer support to update & convert safety training	internal FTE	internal FTE	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	-	-	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	A1	Piloted Alert Driving	employees	employees	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,650	1,800	-	-	-	-	-
SDG&E-Risk-8	Incident Involving an Employee	A2	Modernizing Safety Video Library	contractor	contractor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-