



Risk Assessment and Mitigation Phase

(Chapter SDG&E-Risk-7-WP)

Excavation Damage (Dig-In) on the Gas System Workpapers

May 17, 2021

2021 RAMP
SDG&E-Risk-7-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					O&M					Capital						
				2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2022	2023	2024	2022	2023	2024						
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C29	Ticket Risk Assessment and Evaluating City Permit Data - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C30	Ticket Risk Assessment and Evaluating City Permit Data - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C19	Damage Prevention Policy Activities - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C20	Damage Prevention Policy Activities - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C31	Enhance Ticket Management Software - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C32	Enhance Ticket Management Software - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C01	Locate and Mark Training - (MP)	\$ 77	\$ 74	\$ 90	\$ 99	\$ 105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 97	\$ 117	\$ 100	\$ 121	\$ 103	\$ 124	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C03	Locate and Mark Activities - (MP)	\$ 1,968	\$ 2,743	\$ 3,562	\$ 3,335	\$ 4,946	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,840	\$ 5,859	\$ 4,983	\$ 6,034	\$ 5,135	\$ 6,215	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C05	Locate and Mark Annual Refresher Training and Competency Program - (MP)	\$ 2	\$ 3	\$ 3	\$ 4	\$ 8	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4	\$ 5	\$ 4	\$ 5	\$ 4	\$ 5	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C07	Locate and Mark Operator Qualification - (MP)	\$ 6	\$ 6	\$ 11	\$ 5	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11	\$ 13	\$ 11	\$ 13	\$ 11	\$ 14	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C09	Locate and Mark Quality Assurance - (MP)	\$ -	\$ 28	\$ 137	\$ 397	\$ 387	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 560	\$ 716	\$ 577	\$ 737	\$ 594	\$ 759	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C11	Damage Prevention Analysis - (MP)	\$ -	\$ -	\$ -	\$ 0	\$ 76	\$ 97	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 222	\$ 284	\$ 229	\$ 292	\$ 235	\$ 301	\$ -	\$ -
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C13	Locating Equipment and supporting computer Hardware/Software (Purchase, Replace, Upgrades and Updates) - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 189	\$ 411	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 195	\$ 249
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C15-T1	Public Awareness - Affected Public - (MP)	\$ 85	\$ 115	\$ 39	\$ 241	\$ 191	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 236	\$ 285	\$ 243	\$ 294	\$ 250	\$ 303	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C15-T2	Public Awareness - Emergency Officials - (MP)	\$ 7	\$ 0	\$ 3	\$ 5	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3	\$ 3	\$ 3	\$ 3	\$ 3	\$ 3	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C15-T3	Public Awareness - Local Public Officials - (MP)	\$ 0	\$ 0	\$ 16	\$ 5	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15	\$ 19	\$ 16	\$ 20	\$ 16	\$ 20	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C15-T4	Public Awareness - Excavators - (MP)	\$ 28	\$ 56	\$ 20	\$ 23	\$ 72	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19	\$ 23	\$ 20	\$ 24	\$ 20	\$ 25	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C17	Increase Reporting of Unsafe Excavation - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C21	Gold Shovel Standard Program - (MP)	\$ 2	\$ 2	\$ 2	\$ 2	\$ 2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2	\$ 2	\$ 2	\$ 2	\$ 3	\$ 3	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M1	Automate Third Party Excavation Incident Reporting - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M3	Locate and Mark Photographs - (MP)	\$ -	\$ -	\$ -	\$ -	\$ 44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 69	\$ 88	\$ 69	\$ 88	\$ 69	\$ 88	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M5	Electronic Positive Response - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M7	Leverage Technology for Difficult Locates - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M11	Leverage Data Gathered by Locating Equipment - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C27	Warning Mesh - (MP)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 78	\$ 77	\$ 75	\$ 75	\$ 78	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 73	\$ 88	\$ 75	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C22	Excess Flow Valve or Curb Valve Installation - (MP)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 102	\$ 99	\$ 97	\$ 102	\$ 104	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 95	\$ 121	\$ 98	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M9	Outreach for Latent 3rd Party Damages - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3	\$ 4	\$ 3	\$ 4	\$ 3	\$ 4	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C25	Company Excavator Training - (MP)	\$ 118	\$ 113	\$ 129	\$ 136	\$ 141	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 126	\$ 161	\$ 130	\$ 166	\$ 134	\$ 171	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C02	Locate and Mark Training - (HP)	\$ 11	\$ 11	\$ 15	\$ 15	\$ 14	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14	\$ 17	\$ 15	\$ 18	\$ 15	\$ 18	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C04	Locate and Mark Activities - (HP)	\$ 1,239	\$ 1,391	\$ 1,509	\$ 1,404	\$ 1,435	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,374	\$ 1,663	\$ 1,415	\$ 1,713	\$ 1,458	\$ 1,765	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C06	Locate and Mark Annual Refresher Training and Competency Program - (HP)	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C08	Locate and Mark Operator Qualification - (HP)	\$ 1	\$ 1	\$ 1	\$ 1	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C10	Locate and Mark Quality Assurance - (HP)	\$ -	\$ 3	\$ 15	\$ 43	\$ 42	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 73	\$ 94	\$ 75	\$ 96	\$ 78	\$ 99	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C12	Damage Prevention Analysis - (HP)	\$ -	\$ -	\$ 0	\$ 17	\$ 22	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42	\$ 54	\$ 44	\$ 56	\$ 45	\$ 57	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C14	Locating Equipment and supporting computer Hardware/Software (Purchase, Replace, Upgrades and Updates) - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43	\$ 94	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43	\$ 55	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C16-T1	Public Awareness - Affected Public - (HP)	\$ 19	\$ 26	\$ 9	\$ 55	\$ 44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 94	\$ 65	\$ 55	\$ 67	\$ 57	\$ 69	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C16-T2	Public Awareness - Emergency Officials - (HP)	\$ 2	\$ 0	\$ 1	\$ -	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C16-T3	Public Awareness - Local Public Officials - (HP)	\$ 0	\$ 0	\$ 4	\$ 5	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3	\$ 4	\$ 3	\$ 4	\$ 3	\$ 4	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C16-T4	Public Awareness - Excavators - (HP)	\$ 6	\$ 13	\$ 5	\$ 5	\$ 16	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4	\$ 5	\$ 5	\$ 5	\$ 5	\$ 6	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C18	Increase Reporting of Unsafe Excavation - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C22	Gold Shovel Standard Program - (HP)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0	\$ 1	\$ 0	\$ 1	\$ 0	\$ 1	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M2	Automate Third Party Excavation Incident Reporting - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M4	Locate and Mark Photographs - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11	\$ 14	\$ 11	\$ 14	\$ 11	\$ 14	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M6	Electronic Positive Response - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M8	Leverage Technology for Difficult Locates - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M12	Leverage Data Gathered by Locating Equipment - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C28	Warning Mesh - (HP)	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 18	\$ 17	\$ 17	\$ 17	\$ 17	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 17	\$ 20	\$ 17	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C23	Pipeline Patrol and Pipeline Markers - (HP)	\$ 549	\$ 414	\$ 414	\$ 455	\$ 680	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 630	\$ 805	\$ 649	\$ 829	\$ 669	\$ 854	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M10	Outreach for Latent 3rd Party Damages - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C26	Company Excavator Training - (HP)	\$ 16	\$ 15	\$ 19	\$ 19	\$ 18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17	\$ 22	\$ 18	\$ 23	\$ 18	\$ 24	\$ -	\$ -	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M13	Pipeline Monitoring Technologies - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1	\$ 1	\$ 3	\$ 5	\$ 4	\$ 7	\$ 73	\$ 106	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	A5	Virtual Reality Training - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 94	\$ 120	\$ 94	\$ 120	\$ 94	\$ 120	\$ 94	\$ 120	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	A6	GPS Tracking of Excavation Equipment - (MP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 306	\$ 391	\$ 306	\$ 391	\$ 306	\$ 391	\$ 306	\$ 391	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	A7	Virtual Reality Training - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 94	\$ 120	\$ 94	\$ 120	\$ 94	\$ 120	\$ 94	\$ 120	
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	A8	GPS Tracking of Excavation Equipment - (HP)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 306	\$ 391	\$ 306	\$ 391	\$ 306	\$ 391	\$ 306	\$ 391	

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-7-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-7	Excavation Damage (Dig-In) on the Gas System	C29	Ticket Risk Assessment and Evaluating City Permit Data - (MP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C30	Ticket Risk Assessment and Evaluating City Permit Data - (HP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C19	Damage Prevention Policy Activities - (MP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C20	Damage Prevention Policy Activities - (HP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C31	Enhance Ticket Management Software - (MP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C32	Enhance Ticket Management Software - (HP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C01	Locate and Mark Training - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C03	Locate and Mark Activities - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C05	Locate and Mark Annual Refresher Training and Competency Program - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C07	Locate and Mark Operator Qualification - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C09	Locate and Mark Quality Assurance - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C11	Damage Prevention Analysts - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C13	Locating Equipment and supporting computer Hardware/Software (Purchase, Replace, Upgrades and Updates) - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C15-T1	Public Awareness - Affected Public - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C15-T2	Public Awareness - Emergency Officials - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C15-T3	Public Awareness - Local Public Officials - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C15-T4	Public Awareness - Excavators - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C17	Increase Reporting of Unsafe Excavation - (MP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C21	Gold Shovel Standard Program - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M1	Automate Third Party Excavation Incident Reporting - (MP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M3	Locate and Mark Photographs - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M5	Electronic Positive Response - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M7	Leverage Technology for Difficult Locates - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M11	Leverage Data Gathered by Locating Equipment - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C27	Warning Mesh - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C22	Excess Flow Valve or Curb Valve Installation - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M9	Outreach for Latent 3rd Party Damages - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C25	Company Excavator Training - (MP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C02	Locate and Mark Training - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C04	Locate and Mark Activities - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C06	Locate and Mark Annual Refresher Training and Competency Program -	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C08	Locate and Mark Operator Qualification - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C10	Locate and Mark Quality Assurance - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C12	Damage Prevention Analysts - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C14	Locating Equipment and supporting computer Hardware/Software	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C16-T1	Public Awareness - Affected Public - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C16-T2	Public Awareness - Emergency Officials - (HP)	100%	0%	0%	0%

RAMP Chapter ID	RAMP Chapter Name	Control / Mitigation ID	Control / Mitigation Name	Shared Allocations			
				Retained	SoCalGas	Sempra Energy	Other
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C16-T3	Public Awareness - Local Public Officials - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C16-T4	Public Awareness - Excavators - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C18	Increase Reporting of Unsafe Excavation - (HP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C22	Gold Shovel Standard Program - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M2	Automate Third Party Excavation Incident Reporting - (HP)	16%	84%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M4	Locate and Mark Photographs - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M6	Electronic Positive Response - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M8	Leverage Technology for Difficult Locates - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M12	Leverage Data Gathered by Locating Equipment - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C28	Warning Mesh - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C23	Pipeline Patrol and Pipeline Markers - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M10	Outreach for Latent 3rd Party Damages - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	C26	Company Excavator Training - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	M13	Pipeline Monitoring Technologies - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	A5	Virtual Reality Training - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	A6	GPS Tracking of Excavation Equipment - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	A7	Virtual Reality Training - (HP)	100%	0%	0%	0%
SDG&E-Risk-7	Excavation Damage (Dig-In) on the Gas System	A8	GPS Tracking of Excavation Equipment - (HP)	100%	0%	0%	0%

