

Risk Assessment and Mitigation Phase Cross-Functional Factor

(SDG&E-CFF-7-WP)
Safety Management System
Workpapers

May 17, 2021

2021 RAMP ZU21 KAIMF
SDG&E-CFF-7-WP
Cross-Functional Factors Recorded and Forecast Costs Incurred Workpaper

Tab: Incurred\$
(2020 Direct \$000)

								RECORE	DED DOLLAR	s											FOREC	CAST DOLL	ARS							
						0&M					Capit	tal						180	И						С	apital				i
				2016	2017	2018	2019	2020	2016	20	017 201		2019	2020		2022	22 2		23	2024		2022			2023		2024			Shared Allocations
CFF Volume ID	CFF Name	Line No.	Project / Program Description	2010	2017	2018	2019	2020	2010	2017	2017 2018		2019		\$ Lov	v \$1	High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	h \$1	Low	\$ High	\$ Lo	ow	\$ High	(Yes/No)
SDG&E-CFF-7	Safety Management System	1	Development and Implementation of an Enterprise-Wide SMS	\$ -	\$ -	\$ -	\$.	\$ 1,80	0 \$ -	\$	- \$	- \$		\$ -	\$	500 \$	600 \$	500	\$ 600	\$ 500	\$ 600	\$ -	\$	- \$	- \$	-	\$	- !	- ز	No
			Enhanced Employee and Stakeholder Engagement, including SMS																											
SDG&E-CFF-7	Safety Management System	2	Competence, Awareness, Survey and Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	- \$	-	\$ -	\$	400 \$	600 \$	400	\$ 600	\$ 400	\$ 600	\$ -	\$	- \$	- \$	-	\$	- !	ا - ز	No
			Integration of New Technology and Enhanced Data and Analytics																											
SDG&E-CFF-7	Safety Management System	3	Capabilities for Continuous Safety Improvement	\$ -	\$ -	\$ -	\$.	\$ -	\$ -	\$	- \$	- \$	-	\$ -	\$	500 \$ 3	1,000	500	\$ 1,000	\$ 500	\$ 1,000	\$ -	\$	- \$	- 5		\$	- !	ا۔ ز	No
SDG&E-CFF-7	Safety Management System	4	Enhanced Documentation and Recordkeeping Practices	\$ -	\$ -	\$ -	\$.	\$ -	\$ -	\$	- \$	- \$		\$ -	\$	100 \$	300 \$	100	\$ 300	\$ 100	\$ 300	\$ -	\$	- \$	- \$	-	\$	- !	- ز	No
SDG&E-CFF-7	Safety Management System	5	Expanded Quality Management Program Focused on Asset Safety	\$ -	\$ -	\$ -	\$.	\$ -	\$ -	\$	- \$	- \$		\$ -	\$	200 \$	300 \$	200	\$ 300	\$ 200	\$ 300	\$ -	\$	- \$	- \$	-	\$	- !	- ز	No
			Enhanced Stakeholder Feedback and Key Performance Indicator																											,
SDG&E-CFF-7	Safety Management System	6	Monitoring, Tracking, and Reporting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	- \$	-	\$ -	\$	200 \$	300 \$	200	\$ 300	\$ 200	\$ 300	\$ -	\$	- \$	- \$	-	\$	- !	ا - ز	No
			Development and Implementation of a Strong Management of Change																											
SDG&E-CFF-7	Safety Management System	7	Platform	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	- \$	- \$	-	\$ -	\$	500 \$ 3	1,000	500	\$ 1,000	\$ 500	\$ 1,000	\$ -	\$	- \$	- \$	-	\$	- !	j -	No
			SMS Program Benchmarking, Measurement, and Maturity Assessment																											
SDG&E-CFF-7	Safety Management System	8	for Continuous Improvement	\$ -	\$ -	\$ -	\$.	\$ -	\$ -	\$	- \$	- \$	-	\$ -	\$	200 \$	300 \$	200	\$ 300	\$ 200	\$ 300	\$ -	\$	- \$	- \$	-	\$	- 3	j -	No
NOTES:																														
(a) The flavors			what are according of constant and old. The contract of 2000 della				- 2021		•												•									
[1] The figures pro	wided are direct charges and do not includ	e company loaders,	with the exception of vacation and sick. The costs are also in 2020 dolla	rs and nave	e not been e	escalated to	2021 amo	ints.																					+	
[2] Costs are provi	ded, where available, for all activities rega	rdless of whether a	RSE analysis was performed																											
[2] COSCI di C pi Ori	aca, where available, for all activities regu	raicas or writting a	noe unuiyaa waa periorinea.																											

2021 RAMP SDG&E-CFF-7-WP

Cross-Functional Factors Shared Allocations Workpaper

Tab: Shared Allocations

(2020 Direct \$000)

					O&M Share	d Allocation	S
CFF Volume ID	CFF Name	Line No.	Project / Program Description	Retained	SoCalGas	Sempra Energy	Other
SDG&E-CFF-7	Safety Management System	1	Development and Implementation of an Enterprise-Wide SMS	100%	0%	0%	0%
			Enhanced Employee and Stakeholder Engagement, including SMS				
SDG&E-CFF-7	Safety Management System	2	Competence, Awareness, Survey and Training	100%	0%	0%	0%
			Integration of New Technology and Enhanced Data and Analytics				
SDG&E-CFF-7	Safety Management System	3	Capabilities for Continuous Safety Improvement	100%	0%	0%	0%
SDG&E-CFF-7	Safety Management System	4	Enhanced Documentation and Recordkeeping Practices	100%	0%	0%	0%
SDG&E-CFF-7	Safety Management System	5	Expanded Quality Management Program Focused on Asset Safety	100%	0%	0%	0%
			Enhanced Stakeholder Feedback and Key Performance Indicator				
SDG&E-CFF-7	Safety Management System	6	Monitoring, Tracking, and Reporting	100%	0%	0%	0%
			Development and Implementation of a Strong Management of Change				
SDG&E-CFF-7	Safety Management System	7	Platform	100%	0%	0%	0%
			SMS Program Benchmarking, Measurement, and Maturity Assessment				
SDG&E-CFF-7	Safety Management System	8	for Continuous Improvement	100%	0%	0%	0%

2021 RAMP SDG&E-CFF-7-WP
Cross-Functional Factors Recorded and Forecast Costs After Allocations Workpaper

Tab: After Allocations\$
(2020 Direct \$000)

								RECORDI	D DOLLARS										FORE	CAST DOLL	RS				
						0&M			Capital									Capital							
CFF Volume ID	D CFF Name			2016	2017	7 2018	2019	2020	2016	2017	2018	2019	2020		2022		2023 2		024	2022		2023		2024	
		Line No.	Project / Program Description	2010	2017	2010	2019	2020	2010		2018		2020	\$ L	Low \$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High
SDG&E-CFF-7	Safety Management System	1	Development and Implementation of an Enterprise-Wide SMS	\$ -	\$ -	\$ -	\$ -	\$ 1,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$	500 \$ 600	\$ 500	\$ 600	\$ 500	\$ 600	\$ -	\$ -	\$ -	\$.	\$.	. \$
			Enhanced Employee and Stakeholder Engagement, including SMS																						
SDG&E-CFF-7	Safety Management System	2	Competence, Awareness, Survey and Training	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	400 \$ 600	\$ 40	\$ 600	\$ 400	\$ 600	\$ -	\$ -	\$ -	\$ -	\$. \$
			Integration of New Technology and Enhanced Data and Analytics																						
SDG&E-CFF-7	Safety Management System	3	Capabilities for Continuous Safety Improvement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	500 \$ 1,000	\$ 50	\$ 1,000	\$ 500	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$. \$
SDG&E-CFF-7	Safety Management System	4	Enhanced Documentation and Recordkeeping Practices	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	100 \$ 30	\$ 10	\$ 300	\$ 100	\$ 300	\$ -	\$ -	\$ -	\$.	\$.	. \$
SDG&E-CFF-7	Safety Management System		Expanded Quality Management Program Focused on Asset Safety	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	200 \$ 300	\$ 201	\$ 300	\$ 200	\$ 300	\$ -	\$ -	\$ -	\$ -	\$.	- \$
			Enhanced Stakeholder Feedback and Key Performance Indicator																						
SDG&E-CFF-7	Safety Management System	6	Monitoring, Tracking, and Reporting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	200 \$ 300	\$ 201	\$ 300	\$ 200	\$ 300	\$ -	\$ -	\$ -	\$ -	\$.	- \$
			Development and Implementation of a Strong Management of Change																						
SDG&E-CFF-7	Safety Management System	7	Platform	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	500 \$ 1,000	\$ 500	\$ 1,000	\$ 500	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$. \$
			SMS Program Benchmarking, Measurement, and Maturity Assessment																						
SDG&E-CFF-7	Safety Management System	8	for Continuous Improvement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$	200 \$ 30	\$ 201	\$ 300	\$ 200	\$ 300	\$ -	\$ -	\$ -	\$ -	\$	- \$
		•																							
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.