

SAN DIEGO GAS & ELECTRIC COMPANY

Risk Assessment and Mitigation Phase

2025 Report

Chapter: SDG&E-Risk-4

Number: SDG&E-R04-CWP

Wildfires and PSPS Capital Workpapers

SAN DIEGO GAS & ELECTRIC COMPANY

May 15, 2025



2025 Risk Assessment & Mitigation Phase

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Risk Chapter 1CR04: SDG&E-RISK-4 WILDFIRES AND PSPS

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Summary of Risk Chapter: 1CR04 - SDG&E-Risk-4 Wildfires and PSPS

In 2024 \$ (000s) Incurred Costs												
	Adjusted Recorded					Adjusted Forecast						
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Control/Mitigation	636,043	591,300	608,274	601,220	479,548	273,772	178,822	206,153	478,657	473,029	477,934	407,342
Alternative Mitigation	0	0	0	0	0	0	0	250,404	749,556	749,556	749,556	549,733
Units	See detailed pages for Units as the unit measure can vary for each mitigation.											

Note: Totals may include rounding differences.

Risk Chapter: **SDG&E-Risk-4 Wildfires and PSPS**
Risk ID: **1CR04**

In 2024 \$ (000s) Incurred Costs

Mitigation		Unit Measure	Adjusted Recorded					Adjusted Forecast						
ID	Name		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
A520	Grid Hardening Alternative 1	Miles UG (C	0	0	0	0	0	0	0	101,164	472,917	472,917	472,917	422,334
A522	Grid Hardening Alternative 2	Miles harder	0	0	0	0	0	0	0	149,240	276,639	276,639	276,639	127,399
C501	Wireless Fault Indicators	Wireless fau	1,368	1,713	1,151	6	3	0	0	0	0	0	0	0
C502	Capacitor Maintenance and	Capacitors r	1,594	3,079	4,779	1,691	189	0	0	0	0	0	0	0
C506	Microgrids	Microgrids (	5,865	20,023	3,669	4,124	7,096	0	0	0	910	0	0	0
C507	CMP Repairs	Poles	16,235	20,322	17,258	10,808	10,298	11,655	12,305	12,305	12,305	12,305	12,305	12,305
C508	Advanced Protection	Nodes	15,043	12,628	20,590	16,940	11,048	8,010	2,759	1,808	1,226	1,228	1,302	0
C510	Hotline Clamps	Hotline clarr	0	0	0	0	684	146	0	0	0	0	0	0
C518	Strategic Undergrounding	Miles UG (C	63,166	105,611	169,775	193,343	213,171	85,633	1,494	75,873	354,688	354,688	354,688	329,397
C520	Distribution Overhead Syste	Miles harder	223,087	143,577	27,701	7,615	3,564	2,800	8,299	280	280	280	0	0
C522	Transmission Overhead Har	Miles harder	8,998	8,965	5,113	16,628	12,460	2,459	6,505	4,970	3,536	503	0	0
C524	Lightning Arrestor Removal/I	Lightning Ar	32	2,746	4,367	3,036	2,664	539	0	0	0	0	0	0
C534	Risk-Informed Drone Inspec	Poles replac	26,338	20,188	69,768	83,149	73,111	32,272	31,000	12,797	12,797	12,797	12,797	12,797
C546	Aviation Firefighting Progran	No feasible	13,320	23,943	17,407	4,068	3,009	1,691	3,648	0	0	0	0	0
C550	Combined Covered Conduct	Miles harder	3,386	58,940	120,356	88,046	75,037	69,580	69,439	69,439	69,439	69,439	69,160	31,850
C552	PSPS Sectionalizing Enhanc	Switches ins	8,330	2,979	3,172	2,259	2,178	2,205	2,205	1,890	1,575	1,575	945	630
C558	Risk Methodology and Asses	No feasible	0	1,423	9,650	6,714	4,745	3,974	3,974	3,974	3,974	3,974	3,974	3,974
C561	Fire Potential Index	No feasible	2,236	2,562	2,540	1,817	0	0	0	0	0	0	0	0
C562	Weather Station Maintenanc	Weather ser	1,709	689	8,454	290	116	88	88	88	88	88	7,088	88
C563	Wildfire Mitigation Strategy I	No feasible	1,473	3,442	4,391	1,598	678	0	0	0	0	0	0	0
C564	Distribution Communications	Base statior	65,279	84,869	66,980	93,516	21,336	10,615	0	0	0	0	0	0
C565	Transmission Overhead De	Poles	1,519	666	852	1,725	1,043	1,202	1,152	1,127	1,101	1,076	1,026	975
C566	Enterprise Data Foundation	No feasible	16,483	26,913	19,649	16,130	7,226	8,504	7,397	6,731	6,425	4,806	4,806	4,806
C567	Public Emergency Communi	No feasible	8,435	9,276	8,900	14,222	16,887	9,219	0	0	0	0	0	0

Note: Totals may include rounding differences.

In 2024 \$ (000s) Incurred Costs

Mitigation		Unit Measure	Adjusted Recorded					Adjusted Forecast						
ID	Name		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
C568	Strategic Pole Replacement	Poles	0	0	0	76	2,445	7,928	7,928	7,928	7,928	7,928	7,928	7,928
C569	Cleveland National Forest Fi	No feasible	135,876	19,123	2,132	1,531	1,036	1,182	429	293	181	148	25	0
C570	Expulsion Fuse Replacemer	Fuses repla	10,155	9,174	826	51	206	601	0	0	0	0	0	0
C571	Emergency Preparedness a	No feasible	6,048	5,700	5,479	21,303	3,870	8,578	17,232	3,782	0	0	0	0
C573	Early Fault Detection	Nodes	69	2,417	10,338	7,655	3,761	4,292	2,968	2,868	1,768	1,668	1,567	1,467
C574	Air Quality Station Maintena	Other	0	0	529	112	0	0	0	0	0	0	0	0
C575	Vegetation Management Ent	No feasible	0	0	0	1,223	622	0	0	0	0	0	0	0
C576	Avian Protection	Poles protec	1	332	2,449	1,542	1,066	599	0	0	0	0	0	0
M503	Grounding Banks	Feet	0	0	0	0	0	0	0	0	436	526	323	1,125

Units

Mitigation		Unit Measure	Adjusted Recorded					Adjusted Forecast						
ID	Name		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
A520	Grid Hardening Alternative 1	Miles UG (C	0	0	0	0	0	0	0	0	200	200	200	200
A522	Grid Hardening Alternative 2	Miles harder	0	0	0	0	0	0	0	0	200	200	200	200
C501	Wireless Fault Indicators	Wireless fau	502	544	595	0	0	0	0	0	0	0	0	0
C502	Capacitor Maintenance and	Capacitors r	30	35	58	20	1	0	0	0	0	0	0	0
C506	Microgrids	Microgrids (	4	0	1	0	0	0	0	0	1	0	0	0
C507	CMP Repairs	Poles	666	665	592	407	422	459	485	485	485	485	485	485
C508	Advanced Protection	Nodes	72	46	7	110	18	56	33	39	30	30	30	0
C510	Hotline Clamps	Hotline clarr	0	0	0	0	678	197	0	0	0	0	0	0
C518	Strategic Undergrounding	Miles UG (C	16	26	65	72	112	28	0	0	150	150	150	150
C520	Distribution Overhead Syste	Miles harder	100	100	26	2	1	0	6	0	0	0	0	0
C522	Transmission Overhead Har	Miles harder	9	3	1	17	7	3	5	7	6	0	0	0

Note: Totals may include rounding differences.

Risk Chapter: **SDG&E-Risk-4 Wildfires and PSPS**

Risk ID: **1CR04**

Units

Mitigation		Unit Measure	Adjusted Recorded					Adjusted Forecast						
ID	Name		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
C524	Lightning Arrestor Removal/	Lightning Ar	0	1,789	2,710	2,202	1,654	516	0	0	0	0	0	0
C534	Risk-Informed Drone Inspect	Poles replac	306	365	341	1,464	1,992	854	775	353	353	353	353	353
C546	Aviation Firefighting Program	No feasible	0	0	0	0	0	0	0	0	0	0	0	0
C550	Combined Covered Conduct	Miles harder	2	20	61	60	36	50	50	50	50	50	50	50
C552	PSPS Sectionalizing Enhanc	Switches ins	23	13	12	10	18	7	7	6	5	5	3	2
C558	Risk Methodology and Asses	No feasible	0	0	0	0	0	0	0	0	0	0	0	0
C561	Fire Potential Index	No feasible	0	0	0	0	0	0	0	0	0	0	0	0
C562	Weather Station Maintenan	Weather ser	0	0	0	0	0	2	2	2	2	2	2	2
C563	Wildfire Mitigation Strategy I	No feasible	0	0	0	0	0	0	0	0	0	0	0	0
C564	Distribution Communications	Base station	15	10	21	10	3	5	0	0	0	0	0	0
C565	Transmission Overhead De	Poles	46	18	67	30	14	46	44	43	42	41	39	37
C566	Enterprise Data Foundation	No feasible	0	0	0	0	0	0	0	0	0	0	0	0
C567	Public Emergency Communi	No feasible	0	0	0	0	0	0	0	0	0	0	0	0
C568	Strategic Pole Replacement	Poles	0	0	0	1	40	200	200	200	200	200	200	200
C569	Cleveland National Forest Fi	No feasible	0	0	0	0	0	0	0	0	0	0	0	0
C570	Expulsion Fuse Replacemer	Fuses repla	3,179	3,976	231	36	188	311	0	0	0	0	0	0
C571	Emergency Preparedness a	No feasible	0	0	0	0	0	0	0	0	0	0	0	0
C573	Early Fault Detection	Nodes	0	0	0	32	62	60	60	60	60	60	60	60
C574	Air Quality Station Maintena	Other	0	0	8	6	0	0	0	0	0	0	0	0
C575	Vegetation Management Enl	No feasible	0	0	0	0	0	0	0	0	0	0	0	0
C576	Avian Protection	Poles protec	0	0	973	663	774	236	0	0	0	0	0	0
M503	Grounding Banks	Feet	0	0	0	0	0	0	0	0	14,300	18,500	10,000	36,000

Note: Totals may include rounding differences.

Supplemental Workpapers

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	AS20 Grid Hardening Alternative 1
Budget Code(s):	19246
Estimated In Service Date:	Ongoing

19246					2025			2026			2027			2028			2029			2030			2031			
Line Item	Unit Description	Labor/Non-Labor/ N/E	RAMP/Non-RAMP	Unit Metric (sq./ft./miles)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Comments
	1	Construction - Civil, Electrical, Materials	Non-Labor	RAMP	Miles		\$ -		\$ -			\$ -		200	\$ 1,202,431	\$ 240,486,672	200	\$ 1,202,431	\$ 240,486,672	200	\$ 1,202,431	\$ 240,486,672	200	\$ 1,202,431	\$ 240,486,672	\$ 961,946,688
	2	Design & Engineering	Non-Labor	RAMP	Miles		\$ -		\$ -	200	\$ 505,822	\$ 101,164,488	200	\$ 505,822	\$ 101,164,488	200	\$ 505,822	\$ 101,164,488	200	\$ 505,822	\$ 101,164,488	100	\$ 505,822	\$ 50,982,244	\$ 455,240,296	
	3	Project Support	Non-Labor	RAMP	Miles		\$ -		\$ -	200	\$ 638,963	\$ 127,792,505	200	\$ 638,963	\$ 127,792,505	200	\$ 638,963	\$ 127,792,505	200	\$ 638,963	\$ 127,792,505	200	\$ 638,963	\$ 127,792,505	\$ 111,170,020	
	4	Labor	Labor	RAMP	Hours		\$ -		\$ -		\$ -		\$ -	48,952	\$ 71	\$ 3,473,128	48,952	\$ 71	\$ 3,473,128	48,952	\$ 71	\$ 3,473,128	48,952	\$ 71	\$ 3,473,128	\$ 13,892,511
Summary							\$ -		\$ -			\$ -			\$ 3,473,128	\$ 3,473,128		\$ 3,473,128	\$ 3,473,128		\$ 3,473,128	\$ 3,473,128		\$ 3,473,128	\$ 13,892,511	
		Labor	RAMP				\$ -		\$ -			\$ -			\$ 469,443,665	\$ 469,443,665		\$ 469,443,665	\$ 469,443,665		\$ 469,443,665	\$ 469,443,665		\$ 469,443,665	\$ 18,364,179	
		Non-Labor	RAMP				\$ -		\$ -			\$ -			\$ 101,164,488	\$ 101,164,488		\$ 101,164,488	\$ 101,164,488		\$ 101,164,488	\$ 101,164,488		\$ 101,164,488	\$ 101,164,488	
		N/E	RAMP				\$ -		\$ -			\$ -			\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
		Subtotal RAMP					\$ -		\$ -			\$ -			\$ 472,916,793	\$ 472,916,793		\$ 472,916,793	\$ 472,916,793		\$ 472,916,793	\$ 472,916,793		\$ 472,916,793	\$ 19,942,249,415	
		Labor	Non-RAMP				\$ -		\$ -			\$ -			\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
		Non-Labor	Non-RAMP				\$ -		\$ -			\$ -			\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
		N/E	Non-RAMP				\$ -		\$ -			\$ -			\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
		Subtotal Non-RAMP					\$ -		\$ -			\$ -			\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
Total Project Forecast							\$ -		\$ -			\$ -			\$ 472,916,793	\$ 472,916,793		\$ 472,916,793	\$ 472,916,793		\$ 472,916,793	\$ 472,916,793		\$ 472,916,793	\$ 19,942,249,415	

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	AS22 - Grid Hardening Alternative 2
Budget Code(s):	20285
Estimated In Service Date:	Ongoing

2025		2026				2027				2028				2029				2030				2031				
Unit Description	Labor/Non-Labor/ N/E	RAMP/Non-RAMP	Unit Metric (sq. ft./ mile)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total Cost	Comments			
1 Material	Non-Labor	RAMP	mi			\$ -			\$ -			\$ 200	\$ 263,104	\$ 48,220,832	200	\$ 263,104	\$ 48,220,832	200	\$ 263,104	\$ 48,220,832	\$ 19,156,494	\$ 84,625,976				
2 Construction FTE	Labor	RAMP	mi			\$ -			\$ -			200	\$ 95,782	\$ 19,156,494	200	\$ 95,782	\$ 19,156,494	200	\$ 95,782	\$ 19,156,494	\$ 74,625,696					
3 Construction Contractor	Non-Labor	RAMP	mi			\$ -			\$ -			200	\$ 340,109	\$ 68,021,891	200	\$ 340,109	\$ 68,021,891	200	\$ 340,109	\$ 68,021,891	\$ 272,087,564					
4 Pre-Construction FTE	Labor	RAMP	mi			\$ -	200	\$ 22,500	\$ 4,500,000	200	\$ 22,500	\$ 4,500,000	200	\$ 22,500	\$ 4,500,000	200	\$ 22,500	\$ 4,500,000	-		\$ -	\$ 18,000,000				
5 Pre-Construction Contractor	Non-Labor	RAMP	mi			\$ -	200	\$ 723,701	\$ 144,740,135	200	\$ 723,701	\$ 144,740,135	200	\$ 723,701	\$ 144,740,135	200	\$ 723,701	\$ 144,740,135	200	\$ 723,701	\$ 144,740,135	\$ 576,961,541				
Summary																										
	Labor	RAMP			\$ -			\$ 4,500,000			\$ 23,656,494			\$ 23,656,494			\$ 23,656,494			\$ 23,656,494		\$ 19,156,494	\$ 84,625,976			
	Non-Labor	RAMP			\$ -			\$ 144,740,135			\$ 252,982,858			\$ 252,982,858			\$ 252,982,858			\$ 252,982,858		\$ 108,742,723	\$ 1,011,931,433			
	N/E	RAMP			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		\$ -	\$ -			
	Subtotal RAMP				\$ -			\$ 149,240,135			\$ 276,639,352			\$ 276,639,352			\$ 276,639,352			\$ 276,639,352		\$ 127,399,217	\$ 1,106,557,409			
	Labor	Non-RAMP			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		\$ -	\$ -			
	Non-Labor	Non-RAMP			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		\$ -	\$ -			
	N/E	Non-RAMP			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		\$ -	\$ -			
	Subtotal Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		\$ -	\$ -			
	Total Project Forecast				\$ -			\$ 149,240,135			\$ 276,639,352			\$ 276,639,352			\$ 276,639,352			\$ 276,639,352		\$ 127,399,217	\$ 1,106,557,409			

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	C506 Microgrids
Budget Code(s):	21273
Estimated In Service Date:	2028

21273				2025		2026		2027		2028		2029		2030		2031				
Line Item	Cost Description	Labor/ Mtl	RAMP/Non-RAMP	Cost Monthly Line Item/Notes	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Comments
1	Contracted Services - Remote Grid GDR Grid Site	Non-Labor	RAMP	# of Microgrids		\$ -			\$ -		1	\$	300,000	\$	100,000		\$ -	\$ -	\$ -	Engineering and installation services of smaller remote grid power solutions.
2	Internal Labor - Remote Grid GDR Grid Site	Labor	RAMP	Hours		\$ -			\$ -		1710	\$	84	\$	110,016		\$ -	\$ -	\$ -	240,000
3	All Other - Remote Grid GDR Grid Site	Non-Labor	RAMP	N/A		\$ -			\$ -		1	\$	300,000	\$	300,000		\$ -	\$ -	\$ -	Employee Costs
Summary																				
	Labor	RAMP				\$ -		\$ -		\$ -		\$	110,016		\$ -		\$ -		\$ -	110,016
	Non-Labor	RAMP				\$ -		\$ -		\$ -		\$	800,000		\$ -		\$ -		\$ -	800,000
	NSL	RAMP				\$ -		\$ -		\$ -		\$	0		\$ -		\$ -		\$ -	0
	Subtotal RAMP					\$ -		\$ -		\$ -		\$	910,016		\$ -		\$ -		\$ -	910,016
	Labor	Non-RAMP				\$ -		\$ -		\$ -		\$	-		\$ -		\$ -		\$ -	-
	Non-Labor	Non-RAMP				\$ -		\$ -		\$ -		\$	-		\$ -		\$ -		\$ -	-
	NSL	Non-RAMP				\$ -		\$ -		\$ -		\$	-		\$ -		\$ -		\$ -	-
	Subtotal Non-RAMP					\$ -		\$ -		\$ -		\$	-		\$ -		\$ -		\$ -	-
	Total Project Forecast					\$ -		\$ -		\$ -		\$	910,016		\$ -		\$ -		\$ -	910,016

Capital Workpapers

Workpaper/Mitigation:

CS07 CMP Repairs
239, 23249
Ongoing

[illegible]

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	C508 Advanced Protection
Budget Code(s):	15259 & 24251
Estimated In Service Date:	Various

15259 & 24251 - Advanced Protection Program				2025				2026				2027				2028				2029				2030				2031			
Line Item	Unit Description	Labor/Non-Labor/ NRE	RAMP/Non-RAMP	Unit Metric (see P6 /unit)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total Cost	Comments				
1	Internal Labor - Mgmt & Non-Union	Labor	RAMP	hours	1,486	\$ 65	\$ 96,590	1,864	\$ 65	\$ 121,160	-	\$ -	\$ -	1,400	\$ 65	\$ 91,000	1,400	\$ 69	\$ 96,400	1,400	\$ 73	\$ 102,240	-	\$ -	-	\$ -	\$ 474,969				
2	Internal Labor - Union	Labor	RAMP	hours	9,400	\$ 75	\$ 705,000	8,921	\$ 75	\$ 669,075	2,817	\$ 75	\$ 211,305	2,817	\$ 80	\$ 225,360	2,008	\$ 84	\$ 168,672	2,008	\$ 80	\$ 160,640	-	\$ -	-	\$ -	\$ 1,869,649				
3	Materials - Warehouse	Non-Labor	RAMP	FCP Nodes	56	\$ 19,640	\$ 1,098,640	33	\$ 12,631	\$ 416,811	39	\$ 10,822	\$ 422,254	30	\$ 11,477	\$ 344,299	30	\$ 12,552	\$ 376,560	30	\$ 12,895	\$ 386,850	-	\$ -	-	\$ -	\$ 3,036,012				
4	Materials - Vendor Procured	Non-Labor	RAMP	FCP Nodes	56	\$ 9,300	\$ 516,800	33	\$ 12,310	\$ 406,230	39	\$ 7,761	\$ 302,261	30	\$ 8,272	\$ 248,160	30	\$ 8,721	\$ 261,630	30	\$ 9,244	\$ 277,320	-	\$ -	-	\$ -	\$ 2,006,039				
5	Contract Services	Non-Labor	RAMP	FCP Nodes	56	\$ 29,304	\$ 1,641,680	33	\$ 20,004	\$ 663,443	39	\$ 9,954	\$ 388,201	30	\$ 10,551	\$ 316,530	30	\$ 11,084	\$ 332,520	30	\$ 11,605	\$ 348,150	-	\$ -	-	\$ -	\$ 3,700,365				
6	Internal Labor - Mgmt & Non-Union	Labor	RAMP	hours	1,359	\$ 65	\$ 88,311	1,028	\$ 65	\$ 66,820	508	\$ 65	\$ 33,051	-	-	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	-	\$ -	\$ 188,182				
7	Internal Labor - Union	Labor	RAMP	hours	7,435	\$ 75	\$ 557,625	4,816	\$ 75	\$ 361,200	809	\$ 75	\$ 60,675	-	-	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	-	\$ -	\$ 679,100				
8	Materials - Warehouse	Non-Labor	RAMP	Substation Upgrades	3	\$ 27,896	\$ 83,688	2	\$ 19,380	\$ 38,760	1	\$ 30,000	\$ 30,000	-	-	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	-	\$ -	\$ 152,447				
9	Materials - Vendor Procured	Non-Labor	RAMP	Substation Upgrades	3	\$ 13,110	\$ 39,330	2	\$ 46,260	\$ 92,520	1	\$ 173,870	\$ 173,870	-	-	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	-	\$ -	\$ 302,720				
10	Contract Services	Non-Labor	RAMP	Substation Upgrades	3	\$ 1,042,811	\$ 3,127,894	2	\$ 292,085	\$ 584,170	1	\$ 852,684	\$ 852,684	-	-	\$ -	-	-	\$ -	-	-	\$ -	-	\$ -	-	\$ -	\$ 3,564,748				
Summary																															
		Labor	RAMP			\$ 5,460,511			\$ 557,264		\$ 299,751		\$ 318,163		\$ 265,700		\$ 281,640		\$ -		\$ 3,185,035		\$ -								
		Non-Labor	RAMP			\$ 6,547,280			\$ 2,203,802		\$1,507,700		\$ 907,642		\$ 962,101		\$ 1,019,827		\$ -		\$ 13,146,457		\$ -								
		NRE	RAMP			\$ -			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -								
Subtotal RAMP						\$ 8,008,801			\$ 2,759,166		\$1,807,451		\$ 1,225,805		\$ 1,227,801		\$ 1,301,469		\$ -		\$ 16,331,493		\$ -								
		Labor	Non-RAMP			\$ -			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -								
		Non-Labor	Non-RAMP			\$ -			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -								
		NRE	Non-RAMP			\$ -			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -								
Subtotal Non-RAMP						\$ -			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -								
Total Project Forecast						\$ 8,008,801			\$ 2,759,166		\$1,807,451		\$ 1,225,805		\$ 1,227,801		\$ 1,301,469		\$ -		\$ 16,331,493		\$ -								

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	C510 Hotline Clamps
Budget Code(s):	24242
Estimated In Service Date:	2025

24242						2025		2026		2027		2028		2029		2030		2031				
Line Item	Unit Description	Labor/Non-Labor / MISC	RAMP/Non-RAMP	Link Metrics (see #6, #7c)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total cost	Comments	
HFTD Hot Line Clamps	Labor (FTE)	Labor	RAMP	Hours	296	\$	64	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	\$	18,044
HFTD Hot Line Clamps	Contract Labor	Non-Labor	Non-RAMP	Hot Line Clamps	187	\$	360	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	\$	180,885
HFTD Hot Line Clamps	Hot Line Clamps	Non-Labor	RAMP	Hot Line Clamps	197	\$	86	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	\$	17,002
Summary																						
	Labor	RAMP				\$	18,044		\$	-		\$	-		\$	-		\$	-		\$	18,044
	Non-Labor	RAMP				\$	127,395		\$	-		\$	-		\$	-		\$	-		\$	127,395
	MISC	RAMP				\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
	Subtotal RAMP					\$	146,339		\$	-		\$	-		\$	-		\$	-		\$	146,339
	Labor	Non-RAMP				\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
	Non-Labor	Non-RAMP				\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
	MISC	Non-RAMP				\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
	Subtotal Non-RAMP					\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
	Total Project Forecast					\$	146,339		\$	-		\$	-		\$	-		\$	-		\$	146,339

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS18 Strategic Undergrounding
Budget Code(s):	13246
Estimated In Service Date:	Ongoing

19246				2025			2026			2027			2028			2029			2030			2031					
Line Item	Link Description	Labor/Non-Labor/ Mile	RAMP/Non-RAMP	Unit Metrics (ea./Yr./Miles)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total Cost	Comments
1	Construction - Civil, Electrical, Materials	Non-Labor	RAMP	Miles	28	\$ 2,010,879	\$ 56,904,839			\$ -			\$ -	150	\$ 1,202,433	\$ 180,364,950	150	\$ 1,202,433	\$ 180,364,950	150	\$ 1,202,433	\$ 180,364,950	150	\$ 1,202,433	\$ 180,364,950	\$ 772,794,681	
2	Design & Engineering	Non-Labor	RAMP	Miles	28	\$ 148,509	\$ 9,359,459			\$ -	150	\$ 505,822	\$ 75,873,366	150	\$ 505,822	\$ 75,873,366	150	\$ 505,822	\$ 75,873,366	150	\$ 505,822	\$ 75,873,366	150	\$ 505,822	\$ 75,873,366	\$ 90,562,244	\$ 364,455,897
3	Project Support	Non-Labor	RAMP	Miles	28	\$ 424,889	\$ 11,898,840			\$ -			\$ -	150	\$ 638,963	\$ 95,844,579	150	\$ 638,963	\$ 95,844,579	150	\$ 638,963	\$ 95,844,579	150	\$ 638,963	\$ 95,844,579	\$ 390,274,400	
4	Labor	Labor	RAMP	Hours	23,029	\$ 73	\$ 1,687,240			\$ -			\$ -	36,714	\$ 73	\$ 2,684,846	36,714	\$ 73	\$ 2,684,846	36,714	\$ 73	\$ 2,684,846	36,714	\$ 73	\$ 2,684,846	\$ 22,812,210	
5	Staging Yard Improvements	Labor	RAMP	Hours	86	\$ 73	\$ 6,278	345	\$ 73	\$ 25,465			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 26,574	
6	Staging Yard Improvements	Non-Labor	RAMP	ea			\$ 367,452			\$ 1,469,805			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 1,837,258	
Summary																											
		Labor	RAMP			\$ 1,763,884	\$ 24,460			\$ -			\$ 2,694,846			\$ 2,694,846			\$ 2,694,846			\$ 2,694,846			\$ 12,147,727		
		Non-Labor	RAMP			\$ 62,526,594	\$ 1,469,805			\$ 75,873,366			\$ 92,082,749			\$ 92,082,749			\$ 92,082,749			\$ 92,082,749			\$ 368,791,627	\$ 1,544,511,640	
		NE	RAMP			\$ -	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
	Subtotal RAMP					\$ 85,632,479	\$ 1,494,265			\$ 75,873,366			\$ 354,687,595			\$ 354,687,595			\$ 354,687,595			\$ 354,687,595			\$ 329,396,473	\$ 1,556,459,367	
		Labor	Non-RAMP			\$ -	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
		Non-Labor	Non-RAMP			\$ -	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
		NE	Non-RAMP			\$ -	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
	Subtotal Non-RAMP					\$ -	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
	Total Project Forecast					\$ 85,632,479	\$ 1,494,266			\$ 75,873,366			\$ 354,687,595			\$ 354,687,595			\$ 354,687,595			\$ 354,687,595			\$ 329,396,473	\$ 1,556,459,367	

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS20 Distribution Overhead System Hardening
Budget Code(s):	20284
Estimated In Service Date:	Various

20284			2025			2026			2027			2028			2029			2030			2031			Total Cost	Comments
Line Item	Unit Description	Labor/Non-Labor/ N/E	RAMP/Non-RAMP	Unit Metric (ea./ft./mils)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total Cost		
1	Material	Non-Labor	RAMP	ms	6	\$	203,104	\$	1,306,626	-	\$	-	-	-	-	-	-	-	-	-	-	-	\$	1,206,621	
2	Construction FTE	Labor	RAMP	ms	6	\$	25,282	\$	174,695	-	\$	-	-	-	-	-	-	-	-	-	-	-	\$	274,695	
3	Construction Contractor	Non-Labor	RAMP	ms	6	\$	340,109	\$	2,940,657	-	\$	-	-	-	-	-	-	-	-	-	-	-	\$	2,940,657	
4	Pre-Construction FTE	Labor	RAMP	ms	6	\$	22,500	\$	133,000	-	\$	-	-	-	-	-	-	-	-	-	-	-	\$	133,000	
5	Pre-Construction Contractor	Non-Labor	RAMP	ms	6	\$	723,701	\$	4,362,294	-	\$	-	-	-	-	-	-	-	-	-	-	-	\$	4,362,294	
6	Other	Non-Labor	RAMP	ms	6	\$	-	\$	-	-	\$	-	-	-	-	-	-	-	-	-	-	-	\$	-	
7	Material (TU)	Non-Labor	RAMP	jobs	200	\$	2,432	\$	485,436	-	\$	-	-	\$	-	-	\$	-	-	\$	-	-	\$	485,436	
8	Construction FTE (TU)	Labor	RAMP	jobs	200	\$	2,173	\$	434,566	-	\$	-	-	\$	-	-	\$	-	-	\$	-	-	\$	434,566	
9	Construction Contractor (TU)	Non-Labor	RAMP	jobs	200	\$	4,157	\$	831,341	-	\$	-	-	\$	-	-	\$	-	-	\$	-	-	\$	831,341	
10	Pre-Construction FTE (TU)	Labor	RAMP	jobs	200	\$	168	\$	33,652	-	\$	-	-	\$	-	-	\$	-	-	\$	-	-	\$	33,652	
11	Pre-Construction Contractor (TU)	Non-Labor	RAMP	jobs	200	\$	5,070	\$	1,013,996	-	\$	-	-	\$	-	-	\$	-	-	\$	-	-	\$	1,013,996	
Summary			Labor	RAMP		\$	468,228		\$	705,695		\$	46,823		\$	46,823		\$	-		\$	-		\$	1,318,391
		Non-Labor	RAMP			\$	2,331,772		\$	7,583,486		\$	233,177		\$	233,177		\$	-		\$	-		\$	10,420,790
		N/E	RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
			Subtotal RAMP			\$	2,800,000		\$	8,299,181		\$	280,000		\$	280,000		\$	-		\$	-		\$	11,939,181
		Labor	Non-RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
		Non-Labor	Non-RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
		N/E	Non-RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
			Subtotal Non-RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-
			Total Project Forecast			\$	2,800,000		\$	8,299,181		\$	280,000		\$	280,000		\$	-		\$	-		\$	11,939,181

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	(5.52) Transmission Overhead hardening (Distribution Underbuild)
Budget Code(s):	Various
Estimated In Service Date:	Various

Various	Line Item	Task Description	Task Description	Labor/Non-Labor/ Mile	RAMP/Non-RAMP	2025				2026				2027				2028				2029				2030				2031				Comments									
						Unit	Rate	Cost per unit	Total cost	Unit	Rate	Cost per unit	Total cost	Unit	Rate	Cost per unit	Total cost	Unit	Rate	Cost per unit	Total cost	Unit	Rate	Cost per unit	Total cost	Unit	Rate	Cost per unit	Total cost	Unit	Rate	Cost per unit	Total cost										
	1	765002 - Camp Penetration - Wood to Steel (2026)	no. of hours worked	Labor	RAMP	hours	177	\$ 64	\$ 11,248	188	\$ 64	\$ 12,032	188	\$ 64	\$ 12,032	2,263	\$ 64	\$ 145,632	172	\$ 64	\$ 11,008									\$ 176,279													
	2	765002 - Camp Penetration - Wood to Steel (2026)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ 298,915	-		\$ 298,915	-		\$ 298,915	-		\$ 298,915	-		\$ 298,915									\$ 492,290													
	3	765001 - Ascacado to Camp Penetration (2024)	no. of hours worked	Labor	RAMP	hours	21	\$ 64	\$ 1,344																				\$ 2,368														
	4	765001 - Ascacado to Camp Penetration (2024)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ 16,000																					\$ 16,000													
	5	765050/0071 - Tangle Creek/Chico Springs (Camp Pend)	no. of hours worked	Labor	RAMP	hours	123	\$ 64	\$ 7,912	184	\$ 64	\$ 11,744	1,170	\$ 64	\$ 74,880	193	\$ 64	\$ 12,448											\$ 106,872														
	6	765050/0071 - Tangle Creek/Chico Springs (Camp Pend)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ 413,184			\$ 413,184	2,80	\$ 784,448	\$ 2,218,560			\$ 393,104											\$ 886,248														
	7	76504 Wood to Steel Replacement (2026)	no. of hours worked	Labor	RAMP	hours	78.33	\$ 64	\$ 5,010	107.50	\$ 64	\$ 6,880																	\$ 61,000														
	8	76504 Wood to Steel Replacement (2026)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ 55,648	3.30		\$ 6,360																	\$ 66,662.30														
	9	76508 Wood to Steel Replacement (Monterate - Ascacado) (2024)	no. of hours worked	Labor	RAMP	hours	-		\$ -			\$ -																	\$ -														
	10	76508 Wood to Steel Replacement (Monterate - Ascacado) (2024)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ 743,171	2		\$ 12,800																	\$ 743,271														
	11	76527 Tier 2 W25 Project (2027)	no. of hours worked	Labor	RAMP	hours	-		\$ 187.50	\$ 64	\$ 12,000	187.50	\$ 64	\$ 12,000															\$ 24,000														
	12	76527 Tier 2 W25 Project (2027)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ 722,334	-		\$ 793,304	1.80		\$ 798,000														\$ 5,009,534														
	13	76581 Tier 2 W25 Project (2028)	no. of hours worked	Labor	RAMP	hours	-		\$ 781.25	\$ 64	\$ 50,000																		\$ 50,000														
	14	76581 Tier 2 W25 Project (2028)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ -			\$ 1,000	2.70		\$ 1,573,800														\$ 1,573,800														
	15	76579 Tier 2 W25 Project (2028)	no. of hours worked	Labor	RAMP	hours	-		\$ 64	\$ 40,888	\$ 64	\$ 3,000																	\$ 43,888														
	16	76579 Tier 2 W25 Project (2028)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ 13,860	0.20		\$ 13,900																	\$ 13,900														
	17	765930 Tier 2 W25 Project (2028)	no. of hours worked	Labor	RAMP	hours	150.25	\$ 64	\$ 9,616			\$ 150.00																	\$ 23,840														
	18	765930 Tier 2 W25 Project (2028)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ 1,000	-		\$ 262,000																	\$ 262,000														
	19	7618613 W25 (2025)	no. of hours worked	Labor	RAMP	hours	78.32	\$ 64	\$ 5,010	78.32	\$ 64	\$ 5,010																	\$ 10,020														
	20	7618613 W25 (2025)	Dist. underbuild Miles	Non-Labor	RAMP	miles	-		\$ 915,974	-		\$ 915,974																	\$ 1,447,794														
	Summary																																										
				Labor	RAMP		\$ 40,888		\$ 133,785		\$ 89,688		\$ 184,448		\$ 13,000		\$ -		\$ -		\$ -				\$ 446,599																		
				Non-Labor	RAMP		\$ 2,413,854		\$ 6,304,614		\$ 6,877,395		\$ 1,392,277		\$ 492,390		\$ -		\$ -		\$ -				\$ 17,574,164																		
				Non-Labor	RAMP		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -				\$ -																		
			Subtotal RAMP				\$ 2,454,742		\$ 6,304,614		\$ 6,967,083		\$ 1,576,724		\$ 503,390		\$ -		\$ -		\$ -				\$ 17,574,164																		
				Labor	Non-RAMP		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -				\$ -																		
				Non-Labor	Non-RAMP		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -				\$ -																		
				Non-Labor	Non-RAMP		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -				\$ -																		
			Subtotal Non-RAMP				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -				\$ -																		
			Total Project Forecast				\$ 2,454,742		\$ 6,304,614		\$ 6,967,083		\$ 1,576,724		\$ 503,390		\$ -		\$ -		\$ -				\$ 17,574,164																		

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	C524 Lightning Arrestor Removal/Replace Program
Budget Code(s):	20282
Estimated In Service Date:	2025

20282 - Lightning Arrestor Removal/Replace Program					2025			2026			2027			2028			2029			2030			2031				
Line Item	Unit Description	Labor/Non-Labor/ NSE	RAMP/Non-RAMP	Unit Metric (ea./ft./mile)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total cost	Comments
Lightning Arrestor Replacement Program	Labor (ITE)	Labor	RAMP	Inlets	1,242	\$	79,468			\$			\$			\$			\$			\$			\$	\$ 79,468	
Lightning Arrestor Replacement Program	Contract Labor	Non-Labor	RAMP	Lightning Arrestors	516	\$	250,110			\$			\$			\$			\$			\$			\$	\$ 250,110	
Lightning Arrestor Replacement Program	Lightning Arrestors	Non-Labor	RAMP	Lightning Arrestors	516	\$	209,833			\$			\$			\$			\$			\$			\$	\$ 209,833	
							\$			\$			\$			\$			\$			\$			\$	\$	

Summary		Labor	RAMP			\$	79,468			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ 79,468	
		Non-Labor	RAMP			\$	459,944			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ 459,944	
		NSE	RAMP			\$	-			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -	
	Subtotal RAMP					\$	539,432			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ 539,432	
		Labor	Non-RAMP			\$	-			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -	
		Non-Labor	Non-RAMP			\$	-			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -	
		NSE	Non-RAMP			\$	-			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -	
	Subtotal Non-RAMP					\$	-			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -	
	Total Project Forecast					\$	539,432			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ 539,432	

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS34 Risk-informed Drone Inspections
Budget Code(s):	20286, 22259
Estimated In Service Date:	Ongoing

2026, 22259					2026			2026			2027			2028			2029			2030			2031				
Line Item		Unit Description	Labor/Non-Labor	RAMP/Non-RAMP	Unit Metric (sq./lb./cubic)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total Cost	Comments		
1	Company Labor - RISE	Labor	RAMP	Hours	47,634	\$	46	\$ 4,348,568																			
2	Contractors - RISE	Non-Labor	RAMP	pieces	504	\$	13,843	\$ 7,022,873																			
3	Pole Materials - RISE	Non-Labor	RAMP	pieces	504	\$	12,321	\$ 6,209,784																			
4	Concretions - DNAR Tier 2	Non-Labor	RAMP	pieces	393	\$	13,000	\$ 5,109,000	775	\$	33,000	\$ 25,575,000															
5	Pole Materials - DNAR Tier 2	Non-Labor	RAMP	pieces	393	\$	7,000	\$ 2,751,000	775	\$	7,000	\$ 5,417,500															
Summary																											
		Labor	RAMP				\$ 4,348,568																				
		Non-Labor	RAMP				\$ 12,797,309																				
		RISE	RAMP				\$ 12,797,309																				
		Subtotal RAMP					\$ 12,797,309																				
		Labor	Non-RAMP				\$ -																				
		Non-Labor	Non-RAMP				\$ -																				
		RISE	Non-RAMP				\$ -																				
		Subtotal Non-RAMP					\$ -																				
		Total Project Forecasts					\$ 12,797,309																				

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS46 Aviation Firefighting Program
Budget Code(s):	20277, 21254, 21256
Estimated In Service Date:	2026

20277 - Aviation Firefighting Program					2025		2026		2027		2028		2029		2030		2031				
Line Item	Unit Description	Labor/Non-Labor/ NLE	RAMP/Non-RAMP	Unit Metric (sq. ft./cubic)	# of units	Cost per unit*	Total Cost	# of units	Cost per unit*	Total Cost	# of units	Cost per unit*	Total Cost	# of units	Cost per unit*	Total Cost	# of units	Cost per unit*	Total Cost	Comments	
1	Firehawk Helicopter (20277)	Non-Labor	RAMP	helicopter	1	\$ 1,452,684	\$ 1,452,684	1	\$ 1,647,886	\$ 1,647,886									\$ -	Costs include purchase of Firehawk helicopter and firefighting modifications.	
2	LAS (20277)	Non-Labor	RAMP	Earth	6	\$ 40,000	\$ 240,000													Costs include purchase of approximately six drones.	
3	Aviation Training Area (21254)	Non-Labor	RAMP		1	\$ 223,308	\$ 223,308													223,308	Costs include cables, on-site well repair, and poles to be installed in training area.
4	Twin Engine Medium Lift Helicopter (21256)	Non-Labor	RAMP		1	\$ 66,390	\$ 66,390													66,390	Costs include cables and basket attachment.
Summary		Labor	RAMP																		
		Non-Labor	RAMP			\$ 1,760,213			\$ 1,647,886		\$ -		\$ -		\$ -			\$ -	\$ -		
		NLE	RAMP			\$ -			\$ -		\$ -		\$ -		\$ -			\$ -	\$ -		
	Subtotal RAMP					\$ 1,760,213			\$ 1,647,886		\$ -		\$ -		\$ -			\$ -	\$ -		
		Labor	Non-RAMP			\$ -			\$ -		\$ -		\$ -		\$ -			\$ -	\$ -		
		Non-Labor	Non-RAMP			\$ -			\$ -		\$ -		\$ -		\$ -			\$ -	\$ -		
		NLE	Non-RAMP			\$ -			\$ -		\$ -		\$ -		\$ -			\$ -	\$ -		
	Subtotal Non-RAMP					\$ -			\$ -		\$ -		\$ -		\$ -			\$ -	\$ -		
	Total Project Forecast					\$ 1,760,213			\$ 1,647,886		\$ -		\$ -		\$ -			\$ -	\$ -		

San Diego Gas & Electric Company

2025 RAMP

Capital Workpapers

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CSSO Combined Covered Conductor
Budget Code(s):	20285
Estimated In Service Date:	Ongoing

2025																														2026																														2027																														2028																														2029																														2030																														2031																														
Line Item	Unit Description	Labor/Non-Labor/ NLE	RAMP/Non-RAMP/ NLE	Unit Measure	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total Cost	Comments																																																																																																																																																																											
1	Material	Non-Labor	RAMP	mi	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	50	\$ 201,104	\$ 10,055,208	\$ 70,386,456																																																																																																																																																																												
2	Construction FTE	Labor	RAMP	mi	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	50	\$ 95,782	\$ 4,789,124	\$ 74,578,866																																																																																																																																																																												
3	Construction Contractor	Non-Labor	RAMP	mi	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	50	\$ 340,109	\$ 17,005,473	\$ 219,018,306																																																																																																																																																																												
4	Pre-Construction FTE	Labor	RAMP	mi	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	50	\$ 22,500	\$ 1,125,000	\$ -																																																																																																																																																																												
5	Pre-Construction Contractor	Non-Labor	RAMP	mi	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	50	\$ 723,701	\$ 36,185,034	\$ -																																																																																																																																																																												
6	Material (TU)	Non-Labor	RAMP	objs	30	\$ 1,476	\$ 44,287	20	\$ 1,476	\$ 29,525	20	\$ 1,476	\$ 29,525	20	\$ 1,476	\$ 29,525	20	\$ 1,476	\$ 29,525	20	\$ 1,476	\$ 29,525	20	\$ 1,476	\$ 29,525	20	\$ 1,476	\$ 29,525	20	\$ 1,476	\$ 29,525	20	\$ 1,476	\$ 29,525	20	\$ 1,476	\$ 29,525	\$ -																																																																																																																																																																												
7	Construction FTE (TU)	Labor	RAMP	objs	30	\$ 995	\$ 29,851	20	\$ 995	\$ 19,901	20	\$ 995	\$ 19,901	20	\$ 995	\$ 19,901	20	\$ 995	\$ 19,901	20	\$ 995	\$ 19,901	20	\$ 995	\$ 19,901	20	\$ 995	\$ 19,901	20	\$ 995	\$ 19,901	20	\$ 995	\$ 19,901	20	\$ 995	\$ 19,901	\$ -																																																																																																																																																																												
8	Construction Contractor (TU)	Non-Labor	RAMP	objs	30	\$ 2,338	\$ 70,148	20	\$ 2,338	\$ 46,765	20	\$ 2,338	\$ 46,765	20	\$ 2,338	\$ 46,765	20	\$ 2,338	\$ 46,765	20	\$ 2,338	\$ 46,765	20	\$ 2,338	\$ 46,765	20	\$ 2,338	\$ 46,765	20	\$ 2,338	\$ 46,765	20	\$ 2,338	\$ 46,765	20	\$ 2,338	\$ 46,765	\$ -																																																																																																																																																																												
9	Pre-Construction FTE (TU)	Labor	RAMP	objs	30	\$ 268	\$ 8,035	20	\$ 268	\$ 5,357	20	\$ 268	\$ 5,357	20	\$ 268	\$ 5,357	20	\$ 268	\$ 5,357	20	\$ 268	\$ 5,357	20	\$ 268	\$ 5,357	20	\$ 268	\$ 5,357	20	\$ 268	\$ 5,357	20	\$ 268	\$ 5,357	20	\$ 268	\$ 5,357	\$ -																																																																																																																																																																												
10	Pre-Construction Contractor (TU)	Non-Labor	RAMP	objs	30	\$ 8,923	\$ 267,678	20	\$ 8,923	\$ 178,452	20	\$ 8,923	\$ 178,452	20	\$ 8,923	\$ 178,452	20	\$ 8,923	\$ 178,452	20	\$ 8,923	\$ 178,452	20	\$ 8,923	\$ 178,452	20	\$ 8,923	\$ 178,452	20	\$ 8,923	\$ 178,452	20	\$ 8,923	\$ 178,452	20	\$ 8,923	\$ 178,452	\$ -																																																																																																																																																																												

Summary						\$ 5,912,010			\$ 5,919,381			\$ 5,919,381			\$ 5,919,381			\$ 5,919,381			\$ 5,914,124			\$ 4,789,124			\$ 40,412,781	
	Labor	RAMP				\$ 63,627,828			\$ 63,500,457			\$ 63,500,457			\$ 63,500,457			\$ 63,500,457			\$ 63,245,715			\$ 27,060,681			\$ 407,936,052	
	Non-Labor	RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
		NLE				\$ 68,578,838			\$ 68,439,838			\$ 68,439,838			\$ 68,439,838			\$ 68,439,838			\$ 68,159,838			\$ 31,849,804			\$ 448,348,833	
	Subtotal RAMP					\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
	Labor	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
	Non-Labor	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
		NLE				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
	Subtotal Non-RAMP					\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
	Total Project Forecast					\$ 68,578,838			\$ 68,439,838			\$ 68,439,838			\$ 68,439,838			\$ 68,439,838			\$ 68,159,838			\$ 31,849,804			\$ 448,348,833	

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:
Budget Code(s):
Estimated in Service Date:

C52 PSPS Sectionalizing Enhancements
10245
Ongoing

10245 - PSPS Sectionalizing Enhancements																										
Line Item	Unit Description	Labor/Non-Labor/ MSE	RAMP/Non-RAMP	Unit Metric (Qty/75, mile)	2025			2026			2027			2028			2029			2030			2031			Comments
					# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	
PSPS Engineering Enhancements	Labor (PTE)	Labor	RAMP	Hours	1641	\$ 64	\$ 105,000	1641	\$ 64	\$ 105,000	1496	\$ 64	\$ 95,744	1172	\$ 64	\$ 74,912	1172	\$ 64	\$ 74,912	703	\$ 64	\$ 45,000	469	\$ 64	\$ 30,000	\$ 125,000
PSPS Engineering Enhancements	Contract Labor	Non-Labor	RAMP	Switches	71	\$ 120,000	\$ 8,400,000	71	\$ 120,000	\$ 8,400,000	61	\$ 120,000	\$ 7,320,000	51	\$ 120,000	\$ 6,120,000	51	\$ 120,000	\$ 6,120,000	31	\$ 120,000	\$ 3,720,000	21	\$ 120,000	\$ 2,520,000	\$ 3,500,000
PSPS Engineering Enhancements	Switches	Non-Labor	RAMP	Switches	71	\$ 200,000	\$ 14,000,000	71	\$ 200,000	\$ 14,000,000	61	\$ 200,000	\$ 12,200,000	51	\$ 200,000	\$ 10,200,000	51	\$ 200,000	\$ 10,200,000	31	\$ 200,000	\$ 6,200,000	21	\$ 200,000	\$ 4,200,000	\$ 7,000,000
Summary																										
	Labor	RAMP				\$ 105,000	\$ 105,000		\$ 95,744	\$ 95,744		\$ 74,912	\$ 74,912		\$ 74,912	\$ 74,912		\$ 45,000	\$ 45,000		\$ 30,000	\$ 30,000		\$ 125,000	\$ 125,000	
	Non-Labor	RAMP				\$ 2,550,000	\$ 2,550,000		\$ 1,800,000	\$ 1,800,000		\$ 1,500,000	\$ 1,500,000		\$ 1,500,000	\$ 1,500,000		\$ 900,000	\$ 900,000		\$ 600,000	\$ 600,000		\$ 10,500,000	\$ 10,500,000	
	MSE	RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
	Subtotal RAMP					\$ 2,655,000	\$ 2,655,000		\$ 1,895,000	\$ 1,895,000		\$ 1,575,000	\$ 1,575,000		\$ 1,575,000	\$ 1,575,000		\$ 945,000	\$ 945,000		\$ 630,000	\$ 630,000		\$ 11,025,000	\$ 11,025,000	
	Labor	Non-RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
	Non-Labor	Non-RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
	MSE	Non-RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
	Subtotal Non- RAMP					\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	
	Total Project Forecast					\$ 2,655,000	\$ 2,655,000		\$ 1,895,000	\$ 1,895,000		\$ 1,575,000	\$ 1,575,000		\$ 1,575,000	\$ 1,575,000		\$ 945,000	\$ 945,000		\$ 630,000	\$ 630,000		\$ 11,025,000	\$ 11,025,000	

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS58 Risk Methodology and Assessment
Budget Code(s):	21884, 22255, 23875
Estimated In Service Date:	ongoing

21884, 22255, 23875				2025			2026			2027			2028			2029			2030			2031			
Liba Item	Unit Description	Labor/Non-Labor/ NSE	RAMP/Non-RAMP	Unit Metric (as % Annot)	# of units	Cost per unit	Total cost	# of units	Cost per unit	Total cost	# of units	Cost per unit	Total cost	# of units	Cost per unit	Total cost	# of units	Cost per unit	Total cost	# of units	Cost per unit	Total cost	Comments		
Advanced Analytics	Contractors	Non-Labor	RAMP	months	12	\$ 300,000	\$ 3,600,000	12	\$ 300,000	\$ 3,600,000	12	\$ 300,000	\$ 3,600,000	12	\$ 300,000	\$ 3,600,000	12	\$ 300,000	\$ 3,600,000	12	\$ 300,000	\$ 3,600,000			
Advanced Analytics	Internal Labor - Hours	Labor	RAMP	Hours	5,940	\$ 63	\$ 374,220	5,940	\$ 63	\$ 374,220	5,940	\$ 63	\$ 374,220	5,940	\$ 63	\$ 374,220	5,940	\$ 63	\$ 374,220	5,940	\$ 63	\$ 374,220			
Summary																									
		Labor	RAMP			\$ 374,220		\$ 374,220		\$ 374,220		\$ 374,220		\$ 374,220		\$ 374,220		\$ 374,220		\$ 374,220		\$ 374,220			
		Non-Labor	RAMP			\$ 3,600,000		\$ 3,600,000		\$ 3,600,000		\$ 3,600,000		\$ 3,600,000		\$ 3,600,000		\$ 3,600,000		\$ 3,600,000		\$ 3,600,000			
		NSE	RAMP			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			
	Subtotal RAMP					\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220			
		Labor	Non-RAMP			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			
		Non-Labor	Non-RAMP			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			
		NSE	Non-RAMP			\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			
	Subtotal Non-RAMP					\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			
	Total Project Forecast					\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220		\$ 3,974,220			

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	C562 Weather Station Maintenance and Calibration
Budget Code(s):	15047, 20240
Estimated In Service Date:	Various

15047, 20240		Labor/Non-Labor/ NRE		2025		2026		2027		2028		2029		2030		2031		Total Cost		Comments	
Line Item	Unit Description	Labor/Non-Labor/ NRE	RAMP/Non-RAMP	Work Month (see 201 notes)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost		
1	Weather Station Install Labor (Revised)	Labor	RAMP	Others	80	\$ -	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	80	\$ -	\$ -	\$ -	Reentry labor weather station install
2	Weather Station Sensor Equipment	Non-Labor	RAMP	Sensors	2	\$ 40,750	\$ 81,500	2	\$ 40,750	\$ 81,500	2	\$ 40,750	\$ 81,500	2	\$ 40,750	\$ 81,500	2	\$ 40,750	\$ 81,500	\$ 164,000	Weather station sensor equipment from vendor
3	Equipment/replace Replacement	Non-Labor	RAMP	Eq.		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	2	\$ 3,000,000	\$ 6,000,000		\$ -	\$ -	\$ 6,000,000	Equipment/replace replace
Summary																					
Subtotal RAMP	Labor	RAMP			2	\$ 5,000	\$ 10,000		\$ 1,000	\$ 1,000		\$ 5,000	\$ 10,000		\$ 1,000	\$ 10,000		\$ 5,000	\$ 10,000	\$ 20,000	
	Non-Labor	RAMP				\$ 82,000	\$ 82,000		\$ 82,000	\$ 82,000		\$ 82,000	\$ 82,000		\$ 82,000	\$ 82,000		\$ 82,000	\$ 82,000	\$ 325,960,000	
	NRE					\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	\$ -	
						\$ 87,000	\$ 92,000		\$ 83,000	\$ 83,000		\$ 87,000	\$ 92,000		\$ 83,000	\$ 92,000		\$ 87,000	\$ 92,000	\$ 345,960,000	
Subtotal Non-RAMP	Labor	Non-RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	\$ -	
	Non-Labor	Non-RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	\$ -	
	NRE	Non-RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	\$ -	
						\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	\$ -	
Total Project Forecast						\$ 87,000	\$ 92,000		\$ 83,000	\$ 83,000		\$ 87,000	\$ 92,000		\$ 83,000	\$ 92,000		\$ 87,000	\$ 92,000	\$ 345,960,000	

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	C564 Distribution Communications Reliability Improvements (DCRI)
Budget Code(s):	15873, 15872, 21885, 19134
Estimated in Service Date:	Dec 2025

15873, 15872, 21885, 19134				2025			2026			2027			2028			2029			2030			2031					
Job Item	Job Description	Labor/Non-Labor/ MSE	RAMP/ Non-RAMP	Unit Month (Jan, Feb, March)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Comments	
1	Non-Substation Street (15872)	Non-Labor	RAMP	day	2	\$	800,000																				
2	Substation Street (15873)	Non-Labor	RAMP	day	3	\$	400,000																				
3	Pole Construction (15872)	Non-Labor	RAMP	day	-	\$	-																				
4	Cable Network Support (15873)	Non-Labor	RAMP	day	1	\$	2,300,000																				
5	Structure Upriser (21885)	Non-Labor	RAMP	day	1	\$	2,857,740																				
6	Internal Labor (15872/15873)	Labor	RAMP	hours	2,219	\$	40																				
7	Distribution Underhaul (19134)	Non-Labor	RAMP	hours	12	\$	201,000																				
8	Distribution Pole (19134)	Non-Labor	RAMP	hours	5	\$	50,000																				
Summary																											
		Labor	RAMP				\$ 140,000			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		
		Non-Labor	RAMP				\$ 10,474,155			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		
		MSE	RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		
		Subtotal RAMP					\$ 10,614,155			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		
		Labor	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		
		Non-Labor	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		
		MSE	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		
		Subtotal Non-RAMP					\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		
		Total Project Forecast					\$ 10,614,155			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -		

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS65 Transmission OH Detailed Inspections
Budget Code(s):	21134, 20127
Estimated In Service Date:	Ongoing

21134, 20127 - Transmission OH Detailed Inspections				2025			2026			2027			2028			2029			2030			2031					
Line Item	Unit Description	Labor/Non-Labor/ RAMP/Non-RAMP	Unit Metric (ea./ft./mile)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total Cost	Comments	
1	Poles (21134)	Non-Labor RAMP	Poles	20	\$ 5,000	\$ 100,000	20	\$ 5,000	\$ 100,000	20	\$ 5,000	\$ 100,000	20	\$ 5,000	\$ 100,000	20	\$ 5,000	\$ 100,000	20	\$ 5,000	\$ 100,000	20	\$ 5,000	\$ 100,000	\$ 700,000		
2	Contractors (21134)	Non-Labor RAMP	Poles	20	\$ 20,000	\$ 400,000	20	\$ 20,000	\$ 400,000	20	\$ 20,000	\$ 400,000	20	\$ 20,000	\$ 400,000	20	\$ 20,000	\$ 400,000	20	\$ 20,000	\$ 400,000	20	\$ 20,000	\$ 400,000	\$ 2,800,000		
3	PTEs (21134)	Labor RAMP	PTE	0.2	\$ 203,543	\$ 40,709	0.2	\$ 203,543	\$ 40,709	0.2	\$ 203,543	\$ 40,709	0.2	\$ 203,543	\$ 40,709	0.2	\$ 203,543	\$ 40,709	0.2	\$ 203,543	\$ 40,709	0.2	\$ 203,543	\$ 40,709	\$ 169,750		
4	CMP Poles (20127)	Non-Labor RAMP	Poles	26	\$ 25,198	\$ 655,148	24	\$ 25,198	\$ 604,752	23	\$ 25,198	\$ 579,554	22	\$ 25,198	\$ 554,356	21	\$ 25,198	\$ 529,158	19	\$ 25,198	\$ 478,762	17	\$ 25,198	\$ 428,366	\$ 1,830,096		
Summary																											
		Labor	RAMP		\$ 47,250		\$ 47,250		\$ 47,250		\$ 47,250		\$ 47,250		\$ 47,250		\$ 47,250		\$ 47,250		\$ 47,250		\$ 47,250		\$ 330,750		
		Non-Labor	RAMP		\$1,155,148		\$1,104,752		\$1,079,554		\$1,029,158		\$ 978,762		\$928,366		\$ 878,965		\$828,569		\$ 778,173		\$ 727,776		\$ 6,779,996		
		NSE	RAMP		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
	Subtotal RAMP				\$1,202,398		\$1,152,002		\$1,126,804		\$1,101,606		\$1,076,408		\$1,026,012		\$ 978,616		\$928,925		\$ 878,925		\$ 828,925		\$ 7,660,846		
		Labor	Non-RAMP		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
		Non-Labor	Non-RAMP		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
		NSE	Non-RAMP		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
	Subtotal Non-RAMP				\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		
	Total Project Forecast				\$1,202,398		\$1,152,002		\$1,126,804		\$1,101,606		\$1,076,408		\$1,026,012		\$978,616		\$928,925		\$ 878,925		\$ 828,925		\$ 7,660,846		

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CIS66 Enterprise Data Foundation
Budget Code(s):	2387N, 24877
Estimated In Service Date:	Ongoing

2025 RAMP		2026 RAMP		2027 RAMP		2028 RAMP		2029 RAMP		2030 RAMP		2031 RAMP		2032 RAMP		2033 RAMP		2034 RAMP		2035 RAMP		2036 RAMP		2037 RAMP		2038 RAMP		2039 RAMP		2040 RAMP		2041 RAMP		2042 RAMP		2043 RAMP		2044 RAMP		2045 RAMP		2046 RAMP		2047 RAMP		2048 RAMP		2049 RAMP		2050 RAMP		2051 RAMP		2052 RAMP		2053 RAMP		2054 RAMP		2055 RAMP		2056 RAMP		2057 RAMP		2058 RAMP		2059 RAMP		2060 RAMP		2061 RAMP		2062 RAMP		2063 RAMP		2064 RAMP		2065 RAMP		2066 RAMP		2067 RAMP		2068 RAMP		2069 RAMP		2070 RAMP		2071 RAMP		2072 RAMP		2073 RAMP		2074 RAMP		2075 RAMP		2076 RAMP		2077 RAMP		2078 RAMP		2079 RAMP		2080 RAMP		2081 RAMP		2082 RAMP		2083 RAMP		2084 RAMP		2085 RAMP		2086 RAMP		2087 RAMP		2088 RAMP		2089 RAMP		2090 RAMP		2091 RAMP		2092 RAMP		2093 RAMP		2094 RAMP		2095 RAMP		2096 RAMP		2097 RAMP		2098 RAMP		2099 RAMP		2100 RAMP		2101 RAMP		2102 RAMP		2103 RAMP		2104 RAMP		2105 RAMP		2106 RAMP		2107 RAMP		2108 RAMP		2109 RAMP		2110 RAMP		2111 RAMP		2112 RAMP		2113 RAMP		2114 RAMP		2115 RAMP		2116 RAMP		2117 RAMP		2118 RAMP		2119 RAMP		2120 RAMP		2121 RAMP		2122 RAMP		2123 RAMP		2124 RAMP		2125 RAMP		2126 RAMP		2127 RAMP		2128 RAMP		2129 RAMP		2130 RAMP		2131 RAMP		2132 RAMP		2133 RAMP		2134 RAMP		2135 RAMP		2136 RAMP		2137 RAMP		2138 RAMP		2139 RAMP		2140 RAMP		2141 RAMP		2142 RAMP		2143 RAMP		2144 RAMP		2145 RAMP		2146 RAMP		2147 RAMP		2148 RAMP		2149 RAMP		2150 RAMP		2151 RAMP		2152 RAMP		2153 RAMP		2154 RAMP		2155 RAMP		2156 RAMP		2157 RAMP		2158 RAMP		2159 RAMP		2160 RAMP		2161 RAMP		2162 RAMP		2163 RAMP		2164 RAMP		2165 RAMP		2166 RAMP		2167 RAMP		2168 RAMP		2169 RAMP		2170 RAMP		2171 RAMP		2172 RAMP		2173 RAMP		2174 RAMP		2175 RAMP		2176 RAMP		2177 RAMP		2178 RAMP		2179 RAMP		2180 RAMP		2181 RAMP		2182 RAMP		2183 RAMP		2184 RAMP		2185 RAMP		2186 RAMP		2187 RAMP		2188 RAMP		2189 RAMP		2190 RAMP		2191 RAMP		2192 RAMP		2193 RAMP		2194 RAMP		2195 RAMP		2196 RAMP		2197 RAMP		2198 RAMP		2199 RAMP		2200 RAMP		2201 RAMP		2202 RAMP		2203 RAMP		2204 RAMP		2205 RAMP		2206 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RAMP		2844 RAMP		2845 RAMP		2846 RAMP		2847 RAMP		2848 RAMP		2849 RAMP		2850 RAMP		2851 RAMP		2852 RAMP		2853 RAMP		2854 RAMP		2855 RAMP		2856 RAMP		2857 RAMP		2858 RAMP		2859 RAMP		2860 RAMP		2861 RAMP		2862 RAMP		2863 RAMP		2864 RAMP		2865 RAMP		2866 RAMP		2867 RAMP		2868 RAMP		2869 RAMP		2870 RAMP		2871 RAMP		2872 RAMP		2873 RAMP		2874 RAMP		2875 RAMP		2876 RAMP		2877 RAMP		2878 RAMP		2879 RAMP		2880 RAMP		2881 RAMP		2882 RAMP		2883 RAMP		2884 RAMP		2885 RAMP		2886 RAMP		2887 RAMP		2888 RAMP		2889 RAMP		2890 RAMP		2891 RAMP		2892 RAMP		2893 RAMP		2894 RAMP		2895 RAMP		2896 RAMP		2897 RAMP		2898 RAMP		2899 RAMP		2900 RAMP		2901 RAMP		2902 RAMP		2903 RAMP		2904 RAMP		2905 RAMP		2906 RAMP		2907 RAMP		2908 RAMP	
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2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS&T Public Emergency Communication Strategy
Budget Code(s):	23876, 24875
Estimated In Service Date:	Various

23876, 24875						2025		2026		2027		2028		2029		2030		2031					
Line Item	Task Description	Labor/Non-Labor/ NRE	RAMP/Non-RAMP	Units/Hours/Qty/Notes	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Comments
1	PIEP FTE's	Labor	RAMP	Hours	2,500	\$	75															\$ 215,000	Employees support for the ongoing deployment project up to go live 1) build and update Database, PowerW, and UI to support business needs 2) Manage and support the build out of documentation for purposes of documenting the build application and perform KT for ongoing support and maintenance 3) Perform code changes and builds to support business needs and identified system and process improvements
2	PIEP Contractors - Station	Non-Labor	RAMP	#	13,000	\$	200															\$ 9,800,000	
3	PIEP Contractors - Cap Services	Non-Labor	RAMP	#	10,000	\$	100															\$ 1,000,000	
4	DNS Replacement FTE's	Labor	RAMP	Hours	14,821	\$	75			\$ 1,111,575												\$ 2,044,670	
5	DNS Replacement Contract Labor	Non-Labor	RAMP	#	1		2,000,000			2,000,000													2,000,000
Summary																							
	Labor	RAMP					\$ 1,219,670			\$ -			\$ -			\$ -			\$ -			\$ 1,219,670	
	Non-Labor	RAMP					\$ 9,900,000			\$ -			\$ -			\$ -			\$ -			\$ 9,900,000	
	NRE	RAMP					\$ 9,219,670			\$ -			\$ -			\$ -			\$ -			\$ 9,219,670	
	Subtotal RAMP						\$ 9,219,670			\$ -			\$ -			\$ -			\$ -			\$ 9,219,670	
	Labor	Non-RAMP					\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
	Non-Labor	Non-RAMP					\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
	NRE	Non-RAMP					\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
	Subtotal Non-RAMP						\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	
	Total Project Forecast						\$ 9,219,670			\$ -			\$ -			\$ -			\$ -			\$ 9,219,670	

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	C568 Strategic Pole Replacement Program
Budget Code(s):	22242
Estimated In Service Date:	Ongoing

22242						2025			2026			2027			2028			2029			2030			2031				
Item Name	Unit Description	Labor/Non-Labor/ MSE	RAMP/Non-RAMP	Unit Metric (see P3 /units)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Comments		
1	Material	Non-Labor	RAMP	poles	200	\$ 10,220	\$ 2,044,000	200	\$ 10,220	\$ 2,044,000	200	\$ 10,220	\$ 2,044,000	200	\$ 10,220	\$ 2,044,000	200	\$ 10,220	\$ 2,044,000	200	\$ 10,220	\$ 2,044,000	200	\$ 10,220	\$ 2,044,000	\$ 14,408,000		
2	Construction Contractor	Non-Labor	RAMP	poles	200	\$ 23,880	\$ 4,776,000	200	\$ 23,880	\$ 4,776,000	200	\$ 23,880	\$ 4,776,000	200	\$ 23,880	\$ 4,776,000	200	\$ 23,880	\$ 4,776,000	200	\$ 23,880	\$ 4,776,000	200	\$ 23,880	\$ 4,776,000	\$ 10,620,000		
3	Construction FTE	Labor	RAMP	hours	32,142	\$ 307	\$ 9,969,151	32,142	\$ 307	\$ 9,969,151	32,142	\$ 307	\$ 9,969,151	32,142	\$ 307	\$ 9,969,151	32,142	\$ 307	\$ 9,969,151	32,142	\$ 307	\$ 9,969,151	32,142	\$ 307	\$ 9,969,151	\$ 6,086,101		
4	All Other	Non-Labor	RAMP	poles	200	\$ 848	\$ 169,600	200	\$ 848	\$ 169,600	200	\$ 848	\$ 169,600	200	\$ 848	\$ 169,600	200	\$ 848	\$ 169,600	200	\$ 848	\$ 169,600	200	\$ 848	\$ 169,600	\$ 67,200		
Summary			Labor	RAMP		\$ 1,290,151	\$ 1,290,151		\$ 1,290,151	\$ 1,290,151		\$ 1,290,151	\$ 1,290,151		\$ 1,290,151	\$ 1,290,151		\$ 1,290,151	\$ 1,290,151		\$ 1,290,151	\$ 1,290,151		\$ 1,290,151	\$ 6,094,101			
	Non-Labor	RAMP				\$ 6,479,200	\$ 6,479,200		\$ 6,479,200	\$ 6,479,200		\$ 6,479,200	\$ 6,479,200		\$ 6,479,200	\$ 6,479,200		\$ 6,479,200	\$ 6,479,200		\$ 6,479,200	\$ 6,479,200		\$ 6,479,200	\$ 10,494,401			
	NSE	RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -			
	Subtotal RAMP					\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 16,498,501			
	Labor	Non-RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -			
	Non-Labor	Non-RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -			
	NSE	Non-RAMP				\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -			
	Subtotal Non-RAMP					\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -		\$ -	\$ -			
	Total Project Forecast					\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 7,838,351		\$ 7,838,351	\$ 16,498,501			

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	C569 Cleveland National Forest Fire Hardening
Budget Code(s):	23128
Estimated In Service Date:	2030

23128 - Cleveland National Forest Fire Hardening				2025			2026			2027			2028			2029			2030			2031			Total Cost	Comments										
Line Item	Program Description	Unit Description	Labor/Non-Labor/ NLE	RAMP/Non-RAMP	Unit Metrics (sq. ft./cords)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total cost												
1	CNF PLMP Project (23128)	FFELs	Labor	RAMP	Hours	230	\$	46,795	40	\$	36,074	586	\$	40	\$	38,074	586	\$	40	\$	38,074		\$	\$	\$	\$	212,367									
2	CNF PLMP Project (23128)	Contractors	Non-Labor	RAMP	ea	11,346	\$	100	3,770	\$	100	2,513	\$	100	1,427	\$	100	1,095	\$	100	249	\$	100	\$	\$	\$	\$	2,041,940								
Summary																																				
			Labor	RAMP			\$	46,795			\$	52,351			\$	38,074			\$	38,074			\$	0	\$	0	\$	211,367								
			Non-Labor	RAMP			\$	1,134,566			\$	376,955			\$	142,669			\$	109,596			\$	24,852	\$	0	\$	0	\$	0	\$	0	\$	2,041,940		
			NLE	RAMP			\$	0			\$	0			\$	0			\$	0			\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
				Subtotal RAMP			\$	1,181,351			\$	429,306			\$	188,773			\$	147,669			\$	24,852	\$	0	\$	0	\$	0	\$	0	\$	0	\$	2,257,307
			Labor	Non-RAMP			\$	0			\$	0			\$	0			\$	0			\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
			Non-Labor	Non-RAMP			\$	0			\$	0			\$	0			\$	0			\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
			NLE	Non-RAMP			\$	0			\$	0			\$	0			\$	0			\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
				Subtotal Non-RAMP			\$	0			\$	0			\$	0			\$	0			\$	0	\$	0	\$	0	\$	0	\$	0	\$	0	\$	0
				Total Project Forecast			\$	1,181,351			\$	429,306			\$	293,356			\$	188,773			\$	147,669	\$	0	\$	0	\$	0	\$	0	\$	0	\$	2,257,307

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	C570 Equipment Fuse Replacements
Budget Code(s):	10242
Estimated In Service Date:	2025

HEAD				2025			2026			2027			2028			2029			2030			2031			
Line Item	Asset Description	Labor/Non-Labor / N/E	RAMP/Non-RAMP	Unit Months (x 1/5 Line)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Comments		
HT70 Fuse Replacements	Labor (773)	Labor	RAMP	Plays	796	1	\$ -	64	\$ -	\$ 64						\$ -			\$ -			\$ -	\$ 64		
HT70 Fuse Replacements	Contract Labor	Non-Labor	RAMP	Fuse	313	1	\$ 1,887			\$ 590,831						\$ -			\$ -			\$ -	\$ 590,831		
HT70 Fuse Replacements	Fuses	Non-Labor	Non-RAMP	Fuse	313	1	\$ 584			\$ 184,492						\$ -			\$ -			\$ -	\$ 184,492		
Summary																									
Subtotal RAMP	Labor	RAMP				\$ -	\$ 64			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 64,004		
	Non-Labor	RAMP				\$ -	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 590,899		
						\$ -	\$ 64			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 607,303		
Subtotal Non-RAMP	Labor	Non-RAMP				\$ -	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			
	Non-Labor	Non-RAMP				\$ -	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			
						\$ -	\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			
Total Project Forecast						\$ -	\$ 607,313			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 607,313		

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS71 Emergency Preparedness and Recovery Plan
Budget Code(s):	22875, etc.
Estimated In Service Date:	Various

22875, etc. -				2025			2026			2027			2028			2029			2030			2031					
Line Item	Unit Description	Labor/Non-Labor/ N/E	RAMP/ Non-RAMP	Unit Metrics(ft./mils)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total Cost	Comments
1	Digital Fortress FTE's	Labor	RAMP	hours	8,320	\$ 70	\$ 582,400	8,320	\$ 70	\$ 582,400	8,320	\$ 70	\$ 582,400			\$ -			\$ -			\$ -			\$ -	\$ 2,747,200	Continued Development supporting the added requirements to support pushing data to the end users, and taking advantage of the Emergency Management Data Lake to ensure alignment across the company.
2	Digital Fortress Contract Labor	Non-Labor	RAMP	ea	1	\$ 1,000,000	\$ 1,000,000	1	\$ 2,500,000	\$ 2,500,000	1	\$ 2,500,000	\$ 2,500,000			\$ -			\$ -			\$ -			\$ -	\$ 6,000,000	Continued Development supporting the added requirements to support pushing data to the end users, and taking advantage of the Emergency Management Data Lake to ensure alignment across the company.
3	Data Optimization/Outage Location Mapping FTE's	Labor	RAMP	hours	2,080	\$ 70	\$ 145,600	20,000	\$ 70	\$ 1,400,000			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 1,545,600	
4	Data Optimization/Outage Location Mapping Contract Labor	Non-Labor	RAMP	ea	1	\$ 3,000,000	\$ 3,000,000	1	\$ 6,000,000	\$ 6,000,000			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 9,000,000	
5	Emergency Management Data Lake FTE's	Labor	RAMP	hours	2,857	\$ 70	\$ 200,000	14,286	\$ 70	\$ 1,000,000	2,857	\$ 70	\$ 200,000			\$ -			\$ -			\$ -			\$ -	\$ 1,400,000	Employee resources in support of building a dataset used by multiple applications to provide a single source for data.
6	Emergency Management Data Lake Contract Labor	Non-Labor	RAMP	ea	1	\$ 300,000	\$ 300,000	1	\$ 3,500,000	\$ 3,500,000	1	\$ 500,000	\$ 500,000			\$ -			\$ -			\$ -			\$ -	\$ 4,300,000	Contractor resources in support of building a dataset used by multiple applications to provide a single source for data.
7	Responder Life Cycle Contract Labor	Non-Labor	RAMP	ea	1	\$ 3,000,000	\$ 3,000,000	1	\$ 1,500,000	\$ 1,500,000			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 4,500,000	Contract labor to build out a single portal to track and manage gaps in accuracy, fast tracking onboard and other training support, simplify and correct sign-in and sign-out procedures, speed up ways to work with position leads and other support roles to ensure the best emergency mitigation practices, allow for the access to personal documentation and response records in one place and finally meet company record retention requirements and understand the next steps in the training.
8	Responder Life Cycle FTE's	Labor	RAMP	hours	5,000	\$ 70	\$ 350,000	1	\$ 750,000	\$ 750,000			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 1,100,000	Contract labor to build out a single portal to track and manage gaps in accuracy, fast tracking onboard and other training support, simplify and correct sign-in and sign-out procedures, speed up ways to work with position leads and other support roles to ensure the best emergency mitigation practices, allow for the access to personal documentation and response records in one place and finally meet company record retention requirements and understand the next steps in the training.
Summary		Labor	RAMP				\$ 1,278,000			\$ 1,732,400			\$ 782,400			\$ -			\$ -			\$ -			\$ -	\$ 5,792,800	
		Non-Labor	RAMP				\$ 7,300,000			\$ 13,500,000			\$ 3,000,000			\$ -			\$ -			\$ -			\$ -	\$ 23,800,000	
		N/E	RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
	Subtotal RAMP						\$ 8,578,000			\$ 17,232,400			\$ 3,782,400			\$ -			\$ -			\$ -			\$ -	\$ 26,592,800	
		Labor	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
		Non-Labor	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
		N/E	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
	Subtotal Non-RAMP						\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	
	Total Project Forecast						\$ 8,578,000			\$ 17,232,400			\$ 3,782,400			\$ -			\$ -			\$ -			\$ -	\$ 26,592,800	

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS73 Early Fault Detection
Budget Code(s):	22256
Estimated In Service Date:	Ongoing

22256				2025			2026			2027			2028			2029			2030			2031				
Line Item	Unit Description	Labor/Non-Labor/ M&M	RAMP/Non-RAMP	Unit Metric (sq. ft./ mile)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Comments
1	Mgmt & Non-Union Labor (AMPS)	Labor	RAMP	hours	239	\$	15,530	239	\$	15,530	239	\$	15,530	239	\$	15,530	239	\$	15,530	239	\$	15,530	239	\$	15,530	\$ 108,740
2	Union Labor (AMPS)	Labor	RAMP	Hours	70	\$	5,360	70	\$	5,360	70	\$	5,360	70	\$	5,360	70	\$	5,360	70	\$	5,360	70	\$	5,360	\$ 36,740
3	Materials, Warehouse (AMPS)	Non-Labor	RAMP	Nodes	30	\$	2,379	30	\$	2,379	30	\$	2,379	30	\$	2,379	30	\$	2,379	30	\$	2,379	30	\$	2,379	\$ 71,370
4	Materials, Vendor Procured (AMPS)	Non-Labor	RAMP	Nodes	30	\$	9,032	30	\$	9,032	30	\$	9,032	30	\$	9,032	30	\$	9,032	30	\$	9,032	30	\$	9,032	\$ 270,660
5	Contract Services (AMPS)	Non-Labor	RAMP	Nodes	30	\$	15,452	30	\$	15,452	30	\$	15,452	30	\$	15,452	30	\$	15,452	30	\$	15,452	30	\$	15,452	\$ 463,560
6	Mgmt & Non-Union Labor (PG)	Labor	RAMP	hours	94	\$	6,110	94	\$	6,110	94	\$	6,110	94	\$	6,110	94	\$	6,110	94	\$	6,110	94	\$	6,110	\$ 422,770
7	Union Labor (PG)	Labor	RAMP	Hours	241	\$	18,075	241	\$	18,075	241	\$	18,075	241	\$	18,075	241	\$	18,075	241	\$	18,075	241	\$	18,075	\$ 1,635,910
8	Materials, Warehouse (PG)	Non-Labor	RAMP	Nodes	30	\$	-	30	\$	-	30	\$	-	30	\$	-	30	\$	-	30	\$	-	30	\$	-	\$ -
9	Materials, Vendor Procured (PG)	Non-Labor	RAMP	Nodes	30	\$	6,934	30	\$	6,934	30	\$	6,934	30	\$	6,934	30	\$	6,934	30	\$	6,934	30	\$	6,934	\$ 207,410
10	Contract Services (PG)	Non-Labor	RAMP	Nodes	30	\$	2,889	30	\$	2,889	30	\$	2,889	30	\$	2,889	30	\$	2,889	30	\$	2,889	30	\$	2,889	\$ 86,656
11	Mgmt & Non-Union Labor (Predict/AMWS)	Labor	RAMP	hours	570	\$	37,050	340	\$	22,100	340	\$	22,100	340	\$	22,100	340	\$	22,100	340	\$	22,100	340	\$	22,100	\$ 269,650
12	Union Labor (Predict/AMWS)	Labor	RAMP	Hours	-	\$	75	7	\$	525	7	\$	525	7	\$	525	7	\$	525	7	\$	525	7	\$	525	\$ 3,675
13	Contract Services (Predict/AMWS)	Non-Labor	RAMP	each	1	\$	3,110,000	1	\$	1,800,000	1	\$	1,700,000	1	\$	1,700,000	1	\$	1,500,000	1	\$	1,400,000	1	\$	1,300,000	\$ 8,410,000
Summary		Labor	RAMP			\$	82,020		\$	67,595		\$	67,595		\$	67,595		\$	67,595		\$	67,070		\$	67,070	\$ 486,540
		Non-Labor	RAMP			\$	4,309,656		\$	2,899,016		\$	2,799,616		\$	1,699,616		\$	1,599,616		\$	1,499,616		\$	1,399,616	\$ 15,107,590
		R&E				\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -
	Subtotal RAMP					\$	4,391,676		\$	2,967,251		\$	2,867,251		\$	1,767,251		\$	1,667,251		\$	1,566,726		\$	1,466,726	\$ 16,594,130
		Labor	Non-RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -
		Non-Labor	Non-RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -
		R&E				\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -
	Subtotal Non-RAMP					\$	-		\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$ -
	Total Project Forecast					\$	4,391,676		\$	2,967,251		\$	2,867,251		\$	1,767,251		\$	1,667,251		\$	1,566,726		\$	1,466,726	\$ 16,594,130

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	CS76 Avian Protection
Budget Code(s):	22247
Estimated In Service Date:	2025

22247				2025			2026			2027			2028			2029			2030			2031					
Line Item	Unit Description	Labour/Non-Labour / N/E	RAMP/Non- RAMP	Unit Metric (mg/PS/Feet/ft)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	Total cost	Comments			
Avian Protection WMP	Labour (FTE)	Labour	RAMP	Hours	2,832	\$	6	\$	16,944	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	\$	182,248			
Avian Protection WMP	Contract Labor	Non-Labour	RAMP	Poles	236	\$	1,328	\$	313,408	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	\$	313,408			
Avian Protection WMP	Materials	Non-Labour	RAMP	Poles	236	\$	483	\$	113,928	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	\$	113,928			
Summary																											
		Labour	RAMP			\$	182,248		\$	-		\$	-		\$	-		\$	-		\$	-	\$	\$	182,248		
		Non-Labour	RAMP			\$	413,428		\$	-		\$	-		\$	-		\$	-		\$	-	\$	\$	413,428		
Subtotal RAMP						\$	595,676		\$	-		\$	-		\$	-		\$	-		\$	-	\$	\$	595,676		
		Labour	Non-RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$	\$	-		
		Non-Labour	Non-RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$	\$	-		
		N/E	Non-RAMP			\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$	\$	-		
Subtotal Non-RAMP						\$	-		\$	-		\$	-		\$	-		\$	-		\$	-	\$	\$	-		
Total Project Forecast						\$	595,676		\$	-		\$	-		\$	-		\$	-		\$	-	\$	\$	595,676		

2025 RAMP FORECAST - DETAILS

Workpaper/Mitigation:	MS03 Grounding Banks
Budget Code(s):	N/A
Estimated In Service Date:	Various

N/A				2025			2026			2027			2028			2029			2030			2031			Total Cost	Comments
Line Item	Unit Description	Labor/Non-Labor/ N/L	RAMP/Non-RAMP	Unit Metric (ea/ft./mi)	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost				
C470 Grounding Bank Removal (2)	Union Labor	Labor	RAMP	hours			\$ -			\$ -			\$ -	1,224	\$ 64.00	\$ 78,336			\$ -			\$ -	\$ 78,336			
C470 Grounding Bank Removal (2)	Contractor Labor	Non-Labor	RAMP	feet			\$ -			\$ -			\$ -	16,300	\$ 15.00	\$ 244,500			\$ -			\$ -	\$ 244,500			
C470 Grounding Bank Removal (2)	Wire (includes wire and related hardware/equipment)	Non-Labor	RAMP	feet			\$ -			\$ -			\$ -	16,300	\$ 5.82	\$ 94,815			\$ -			\$ -	\$ 94,815			
C470 Grounding Bank Removal (2)	Steel Poles	Non-Labor	RAMP	ea			\$ -			\$ -			\$ -	4	\$ 15,000.00	\$ 60,000			\$ -			\$ -	\$ 60,000			
C231 Grounding Bank Removal (2)	Union Labor	Labor	RAMP	hours			\$ -			\$ -			\$ -			\$ -	1,520	\$ 64.00	\$ 97,280			\$ -	\$ 97,280			
C231 Grounding Bank Removal (2)	Contractor Labor	Non-Labor	RAMP	feet			\$ -			\$ -			\$ -			\$ -	18,500	\$ 15.00	\$ 277,500			\$ -	\$ 277,500			
C231 Grounding Bank Removal (2)	Wire (includes wire and related hardware/equipment)	Non-Labor	RAMP	feet			\$ -			\$ -			\$ -			\$ -	18,500	\$ 6.55	\$ 121,175			\$ -	\$ 121,175			
C231 Grounding Bank Removal (2)	Steel Poles	Non-Labor	RAMP	ea			\$ -			\$ -			\$ -	2	\$ 15,000.00	\$ 30,000			\$ -			\$ -	\$ 30,000			
C230 Grounding Bank Removal (3)	Union Labor	Labor	RAMP	hours			\$ -			\$ -			\$ -			\$ -	880	\$ 64.00	\$ 56,320			\$ -	\$ 56,320			
C230 Grounding Bank Removal (3)	Contractor Labor	Non-Labor	RAMP	feet			\$ -			\$ -			\$ -			\$ -	10,000	\$ 15.00	\$ 150,000			\$ -	\$ 150,000			
C230 Grounding Bank Removal (3)	Wire (includes wire and related hardware/equipment)	Non-Labor	RAMP	feet			\$ -			\$ -			\$ -			\$ -	4	\$ 15,000.00	\$ 60,000			\$ -	\$ 60,000			
C230 Grounding Bank Removal (3)	Steel Poles	Non-Labor	RAMP	ea			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 60,000			
C176 Grounding Bank Removal (3)	Contractor Labor	Non-Labor	RAMP	feet			\$ -			\$ -			\$ -			\$ -	36,000	\$ 15.00	\$ 540,000	2,880	\$ 64.00	\$ 184,320	\$ 724,320			
C176 Grounding Bank Removal (3)	Wire (includes wire and related hardware/equipment)	Non-Labor	RAMP	feet			\$ -			\$ -			\$ -			\$ -	36,000	\$ 6.15	\$ 221,400			\$ -	\$ 221,400			
C176 Grounding Bank Removal (3)	Steel Poles	Non-Labor	RAMP	ea			\$ -			\$ -			\$ -			\$ -	12	\$ 15,000	\$ 180,000			\$ -	\$ 180,000			

Summary				2025			2026			2027			2028			2029			2030			2031			Total Cost	Comments
				# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost	# of units	Cost per unit*	Total cost		
Subtotal RAMP	Labor	RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 184,320	\$ 416,256
	Non-Labor	RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 941,400	\$ 1,044,710
	NEE	RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	\$ -
Subtotal Non-RAMP	Labor	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	\$ -
	Non-Labor	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	\$ -
	NEE	Non-RAMP				\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ -	\$ -
Total Project Forecast						\$ -			\$ -			\$ -			\$ -			\$ -			\$ -			\$ -	\$ 1,125,720	\$ 2,410,966

Appendix A: Forecast Methodology

Mitigation ID	Mitigation Name	Labor	Non-Labor	NSE	Units
A520	Grid Hardening Alternative 1	Zero-Based	Zero-Based	Zero-Based	Zero-Based
A522	Grid Hardening Alternative 2	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C506	Microgrids	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C507	CMP Repairs	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C508	Advanced Protection	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C510	Hotline Clamps	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C518	Strategic Undergrounding	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C520	Distribution Overhead System Hardening	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C522	Transmission Overhead Hardening (Distribution Underbuild)	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C524	Lightning Arrestor Removal/Replace Program	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C534	Risk-Informed Drone Inspections	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C546	Aviation Firefighting Program	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C550	Combined Covered Conductor	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C552	PSPS Sectionalizing Enhancements	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C558	Risk Methodology and Assessment	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C561	Fire Potential Index	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C562	Weather Station Maintenance and Calibration	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C563	Wildfire Mitigation Strategy Development	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C564	Distribution Communications Reliability Improvements (DCRI)	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C565	Transmission Overhead Detailed Inspections	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C566	Enterprise Data Foundation	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C567	Public Emergency Communication Strategy	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C568	Strategic Pole Replacement	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C569	Cleveland National Forest Fire Hardening	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C570	Expulsion Fuse Replacements	Zero-Based	Zero-Based	Zero-Based	Zero-Based

Risk Chapter: **SDG&E-Risk-4 Wildfires and PSPS**
Risk ID: **1CR04**

Appendix A: Forecast Methodology

Mitigation ID	Mitigation Name	Labor	Non-Labor	NSE	Units
C571	Emergency Preparedness and Recovery Plan	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C573	Early Fault Detection	Zero-Based	Zero-Based	Zero-Based	Zero-Based
C576	Avian Protection	Zero-Based	Zero-Based	Zero-Based	Zero-Based
M503	Grounding Banks	Zero-Based	Zero-Based	Zero-Based	Zero-Based

Risk Chapter: **SDG&E-Risk-4 Wildfires and PSPS**

Risk ID: **1CR04**

Appendix B: Unit Measure

Mitigation ID	Mitigation Name	Unit Measure
A520	Grid Hardening Alternative 1	Miles UG (Capital)
A522	Grid Hardening Alternative 2	Miles hardened (Capital)
C506	Microgrids	Microgrids (Capital)
C507	CMP Repairs	Poles
C508	Advanced Protection	Nodes
C510	Hotline Clamps	Hotline clamps removed
C518	Strategic Undergrounding	Miles UG (Capital)
C520	Distribution Overhead System Hardening	Miles hardened (Capital)
C522	Transmission Overhead Hardening (Distribution Underbuild)	Miles hardened
C524	Lightning Arrestor Removal/Replace Program	Lightning Arrestors
C534	Risk-Informed Drone Inspections	Poles replaced
C546	Aviation Firefighting Program	No feasible units
C550	Combined Covered Conductor	Miles hardened (Capital)
C552	PSPS Sectionalizing Enhancements	Switches installed
C558	Risk Methodology and Assessment	No feasible units
C561	Fire Potential Index	No feasible units
C562	Weather Station Maintenance and Calibration	Weather sensors
C563	Wildfire Mitigation Strategy Development	No feasible units
C564	Distribution Communications Reliability Improvements (DCRI)	Base stations
C565	Transmission Overhead Detailed Inspections	Poles
C566	Enterprise Data Foundation	No feasible units
C567	Public Emergency Communication Strategy	No feasible units
C568	Strategic Pole Replacement	Poles
C569	Cleveland National Forest Fire Hardening	No feasible units
C570	Expulsion Fuse Replacements	Fuses replaced

Risk Chapter: **SDG&E-Risk-4 Wildfires and PSPS**
Risk ID: **1CR04**

Appendix B: Unit Measure

Mitigation ID	Mitigation Name	Unit Measure
C571	Emergency Preparedness and Recovery Plan	No feasible units
C573	Early Fault Detection	Nodes
C576	Avian Protection	Poles protected
M503	Grounding Banks	Feet