Application of SAN DIEGO GAS & ELECTRIC)
COMPANY for authority to update its gas and)
electric revenue requirement and base rates)
effective January 1, 2024 (U 902-M))
Application No. 22-05	
Exhibit No : (SDG&F-24-WP)	

WORKPAPERS TO PREPARED DIRECT TESTIMONY OF BRITTANY A. SYZ ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

May 2022



2024 General Rate Case - APP INDEX OF WORKPAPERS

Exhibit SDG&E-24-WP - SDG&E ENVIRONMENTAL SERVICES AND SONGS

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Overall Summary For Exhibit No. SDG&E-24-WP

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Description
Non-Shared Services
Shared Services
Total

In 2021 \$ (000) Incurred Costs								
Adjusted-Recorded	Adjusted-Forecast							
2021	2022	2023	2024					
8,504	9,607	9,875	9,975					
0	0	0	0					
8.504	9,607	9.875	9.975					

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Summary of Non-Shared Services Workpapers:

Description
A. Environmental Services
B. NERBA
C. SONGS
Total

	In 2021 \$ (000) Incurred Costs								
Adjusted- Recorded	Adjusted-Forecast								
2021	2022	2023	2024						
5,847	6,699	6,908	7,033						
1,441	1,422	1,454	1,402						
1,216	1,486	1,513	1,540						
8,504	9,607	9,875	9,975						

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services

Workpaper: 1EV000.000

Summary for Category: A. Environmental Services

	In 2021\$ (000) Incurred Costs								
	Adjusted-Recorded		Adjusted-Forecast						
	2021	2022	2023	2024					
Labor	3,796	4,262	4,382	4,382					
Non-Labor	2,051	2,437	2,526	2,651					
NSE	0	0	0	0					
Total	5,847	6,699	6,908	7,033					
FTE	35.3	39.1	39.2	40.1					

Workpapers belonging to this Category:

1EV000.000 ENVIRONMENTAL SDGE NSS Cost Center

Labor	3,796	4,262	4,382	4,382
Non-Labor	2,051	2,437	2,526	2,651
NSE	0	0	0	0
Total	5,847	6,699	6,908	7,033
FTE	35.3	39.1	39.2	40.1

Beginning of Workpaper
1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

Activity Description:

The Environmental Services department includes subject matter experts in air and water quality, biological resources, cultural resources, land planning, field operations, hazardous materials and environmental lab operations. The department supports ongoing environmental compliance, including obtaining environmental permits and approvals, developing environmental plans, hazardous waste operations, lab testing and conducting specialized environmental inspections, assessments and training. The department also screens proposed faciliity, field and real property projects and transactions that have the potential for environmental impacts. The environmental screening involves a thorough review and analysis of potential environmental impacts, permits and compliance requirements for all environmental disciplines as appropriate for the project scope. The department also assumes the responsibility for the development and management of environmental training and compliance procedures.

Forecast Explanations:

Labor - Base YR Rec

The base year forecast methodology was utilized to best represent the financial structure of the organization, while accounting for the incremental mandatory and compliance driven programs supported by the department moving forward. Historical averaging or trending of costs would not accurately reflect the future needs for the department given the evolving and expanding nature of the activities supported by the department. In summary, a base year forecast method is used because the most recent year of recorded costs is the most representative of the current departmental activity and structure. This method, which was used in SDG&E's TY 2016 and TY 2019 GRCs, is again the most appropriate in this GRC.

Non-Labor - Base YR Rec

The base year forecast methodology was utilized to best represent the financial structure of the organization, while accounting for the incremental mandatory and compliance driven programs supported by the department moving forward. Historical averaging or trending of costs would not accurately reflect the future needs for the department given the evolving and expanding nature of the activities supported by the department. In summary, a base year forecast method is used because the most recent year of recorded costs is the most representative of the current departmental activity and structure. This method, which was used in SDG&E's TY 2016 and TY 2019 GRCs, is again the most appropriate in this GRC.

NSE - Base YR Rec

There were no non standard escalation costs for this workpaper group.

Summary of Results:

	In 2021\$ (000) Incurred Costs								
		Adju	sted-Recor	Ad	justed-Fored	cast			
Years	2017	2018	2019	2020	2021	2022	2023	2024	
Labor	3,735	2,973	3,201	3,619	3,796	4,262	4,382	4,382	
Non-Labor	2,400	2,066	1,867	1,921	2,051	2,437	2,526	2,651	
NSE	0	0	0	0	0	0	0	0	
Total	6,135	5,040	5,068	5,540	5,847	6,699	6,908	7,033	
FTE	35.0	28.4	30.5	33.3	35.3	39.1	39.2	40.1	

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs										
Forecas	Forecast Method Base Forecast Forecast Adjus			Base Forecast Foreca			ments	Adjus	ted-Forec	ast
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	3,796	3,796	3,796	466	586	586	4,262	4,382	4,382
Non-Labor	Base YR Rec	2,051	2,051	2,051	386	475	600	2,437	2,526	2,651
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	al	5,847	5,847	5,847	852	1,061	1,186	6,699	6,908	7,033
FTE	Base YR Rec	35.3	35.3	35.3	3.8	3.9	4.8	39.1	39.2	40.1

	tment Details:								
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type			
2022	56	0	0	56	0.1	1-Sided Adj			
Explanation:	Annualization of off-cyc annualization required be increases for the effected	ecause the ba				base year 2021. Labor at of the wage			
2022	100	0	0	100	0.1	1-Sided Adj			
Explanation:	Annualization of wages 2021. Labor annualizati effected employees.			-	-	· ·			
2022	0	26	0	26	0.0	1-Sided Adj			
Explanation:	Added cost for the man disposal facility. Total pin annual expense of \$2	ermit renwal co							
2022	85	0	0	85	1.0	1-Sided Adj			
xplanation:	Addition of one full time certification, compliance the need for third party	e with new stan	dards from T	he NELAC In	stitute, metals	•			
2022	0	27	0	27	0.0	1-Sided Adj			
explanation:	Added costs for environ lab testing equipment.	mental lab equ	ipment servic	ce contracts to	o ensure reliab	ility and accuracy of			
2022	0	72	0	72	0.0	1-Sided Adj			
Explanation:	Added cost for the implementation of the mandatory Cleveland National Forest O&M plan. The annual O&M estimate to implement the plan is based upon the total project cost of \$900,440 allocated over 5 years or \$180,088 per year beginning in 2022. The O&M portion of the total project cost is estimated to be 40%, therefore, SDG&E requests \$72,000 in TY 2024								
				ΓY 2024		,			
2022				TY 2024 105	1.0	1-Sided Adj			
2022 Explanation:	to be 40%, therefore, S	DG&E requests 0 position in the	s \$72,000 in 7 0 field operatio	105 ins departme	nt to mitigate th	1-Sided Adj ne risk of non-			

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

vvorkpaper:	1EV000.000 - EIN	VIRONWENTAL	SDGE NSS (Cost Center		
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	Added costs to develop develop efficiencies in sustainability goals.	•		_	-	•
2022	70	0	0	70	8.0	1-Sided Adj
Explanation:	Addition of one full time department to support position is allocated 80 added in 2022.	overall departme	ent workload.	Total annual	compensation	of \$87,500 for this
2022	50	0	0	50	8.0	1-Sided Adj
Explanation:	Addition of one full time department. Total annuincrease of \$50,000 readded in 2022.	ıal compensatior	n is \$62,500 i	s allocated 80	% O&M and 2	0% Capital. Cost
2022	0	10	0	10	0.0	1-Sided Adj
Explanation:	Added costs for the ne	w Environmental	I Lab The NE	LAC Institute	(TNI) standard	ls.
2022	0	40	0	40	0.0	1-Sided Adj
Explanation:	Added cost for the mar	ndatory construct	tion stormwat	er general pe	rmit.	
2022	0	5	0	5	0.0	1-Sided Adj
Explanation:	Added costs for manda	atory natural gas	pipeline disc	harge progran	nmatic permit.	
2022	0	6	0	6	0.0	1-Sided Adj
Explanation:	Added cost for consulta	ant fees to increa	ase scope of	emissions dat	a for sustainal	oility reporting.
2022	0	58	0	58	0.0	1-Sided Adj
Explanation:	Added costs to suppor initiative ensures that a necessary customer ar property.	all post construct	ion site restor	ation activities	s have suppor	t to obtain the
2022	0	10	0	10	0.0	1-Sided Adj
Explanation:	Cost increase for admi for employee turnover, and general costs inclu	equipment repla	cement and	upgrade and f	acility costs. 1	Typical administrative
2022 Total	466	386	0	852	3.8	
2023	56	0	0	56	0.1	1-Sided Adj
Explanation:	-		_	_	-	base year 2021. Labor t of the wage increase.
2023	100	0	0	100	0.1	1-Sided Adj
Explanation:	Annualization of wages year 2021. Labor annu effected employees.				-	
2023	85	0	0	85	1.0	1-Sided Adj

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	Addition of one full time certification, compliance eliminate the need for th	with new stand	dards from Th	e NELAC Ins	titute (TNI), m	
2023	0	26	0	26	0.0	1-Sided Adj
Explanation:	Added cost for the hazad renewal. The total perm permit at \$26,000 per ye	it renewal cost			-	
2023	105	0	0	105	0.1	1-Sided Adj
Explanation:	Addition of one full time compliance with facility in		-	•	_	
2023	0	20	0	20	0.0	1-Sided Adj
Explanation:	Added cost for consultar implement new best mar		-		•	
2023	0	10	0	10	0.0	1-Sided Adj
Explanation:	Added cost for the mand	latory construc	tion stormwat	er general pe	rmit.	
2023	90	0	0	90	0.8	1-Sided Adj
Explanation:	Addition of one full time project demands, sustain this position of \$112.500 Position to be added in 2	nability reportir is allocated 80	ng and compli	ance requiren	nents. Total a	nnual compensation for
2023	30	0	0	30	0.2	1-Sided Adj
		0 Sr Environmen ids and compli	ntal Specialist ance requirer	in the Cultura	l Resources o tal annual cor	department to support mpensation for this
	30 Addition of one full time increased project deman position of \$112,500 is a	0 Sr Environmen ids and compli	ntal Specialist ance requirer	in the Cultura	l Resources o tal annual cor	department to support mpensation for this
Explanation: 2023	30 Addition of one full time sincreased project deman position of \$112,500 is a to be added in 2023.	0 Sr Environmen ods and compli llocated 27% 0 0 Hazardous Sul verall departme	ntal Specialist ance requiren D&M and 73% 0 bstance Spec ent workload.	in the Cultura nents. The to Capital. O&N 70 ialist in the Ha Total annual	I Resources of tal annual conductors of the cost increased on the cost increased on the cost of the co	department to support mpensation for this se is \$30,000. Position 1-Sided Adj erials Operations of \$87,500 for this
Explanation: 2023	30 Addition of one full time increased project deman position of \$112,500 is a to be added in 2023. 70 Addition of one full time department to support or position is allocated 80%	0 Sr Environmen ods and compli llocated 27% 0 0 Hazardous Sul verall departme	ntal Specialist ance requiren D&M and 73% 0 bstance Spec ent workload.	in the Cultura nents. The to Capital. O&N 70 ialist in the Ha Total annual	I Resources of tal annual conductors of the cost increased on the cost increased on the cost of the co	department to support mpensation for this se is \$30,000. Position 1-Sided Adj erials Operations of \$87,500 for this
Explanation: 2023 Explanation:	30 Addition of one full time increased project demandation of \$112,500 is at to be added in 2023. 70 Addition of one full time indepartment to support or position is allocated 80% added in 2022.	0 Sr Environment ds and compliated 27% 0 0 Hazardous Sulverall department of O&M and 209 0 Hazardous Mall compensation	otal Specialist ance requirence To&M and 73% 0 bstance Specient workload. % Capital. The outerials Handlen is \$62,500.	in the Culturanents. The to Capital. O&M 70 ialist in the Ha Total annual e O&M cost in 50 er in the Haza Cost increase	I Resources of tal annual conditions of \$50,000 resources of \$50,000 res	department to support impensation for this se is \$30,000. Position 1-Sided Adjustials Operations of \$87,500 for this 0,000. Position to be 1-Sided Adjust Operations
2023 Explanation:	30 Addition of one full time increased project demandant position of \$112,500 is at to be added in 2023. 70 Addition of one full time indepartment to support or position is allocated 80% added in 2022. 50 Addition of one full time indepartment. Total annual	0 Sr Environment ds and compliated 27% 0 0 Hazardous Sulverall department of O&M and 209 0 Hazardous Mall compensation	otal Specialist ance requirence To&M and 73% 0 bstance Specient workload. % Capital. The outerials Handlen is \$62,500.	in the Culturanents. The to Capital. O&M 70 ialist in the Ha Total annual e O&M cost in 50 er in the Haza Cost increase	I Resources of tal annual conditions of \$50,000 resources of \$50,000 res	department to support impensation for this se is \$30,000. Position 1-Sided Adjustials Operations of \$87,500 for this 0,000. Position to be 1-Sided Adjust Operations
2023 Explanation: 2023 Explanation: 2023 Explanation:	Addition of one full time increased project deman position of \$112,500 is a to be added in 2023. 70 Addition of one full time department to support or position is allocated 80% added in 2022. 50 Addition of one full time department. Total annual O&M component of annual	0 Sr Environment ds and compliated 27% 0 0 Hazardous Sulverall department of O&M and 209 0 Hazardous Mall compensation and co	otal Specialist ance requiren D&M and 73% 0 bstance Specient workload. % Capital. The outerials Handle is \$62,500. ion. Position to	in the Culturanents. The to Capital. O&M 70 ialist in the Ha Total annual e O&M cost in 50 er in the Haza Cost increase o be added in	I Resources of tal annual conditions of \$50,000 resources of \$2022.	department to support impensation for this se is \$30,000. Position 1-Sided Adjustials Operations of \$87,500 for this 0,000. Position to be 1-Sided Adjusts Operations epresents the 80%
2023 Explanation: 2023 Explanation: 2023 Explanation:	Addition of one full time increased project demandrate position of \$112,500 is at to be added in 2023. 70 Addition of one full time indepartment to support on position is allocated 80% added in 2022. 50 Addition of one full time indepartment. Total annual O&M component of annual 0	0 Sr Environment ds and compliated 27% 0 0 Hazardous Sulverall department of O&M and 209 0 Hazardous Mall compensation and co	otal Specialist ance requiren D&M and 73% 0 bstance Specient workload. % Capital. The outerials Handle is \$62,500. ion. Position to	in the Culturanents. The to Capital. O&M 70 ialist in the Ha Total annual e O&M cost in 50 er in the Haza Cost increase o be added in	I Resources of tal annual conditions of \$50,000 resources of \$2022.	department to support impensation for this se is \$30,000. Position 1-Sided Adjustials Operations of \$87,500 for this 0,000. Position to be 1-Sided Adjusts Operations epresents the 80%
2023 Explanation: 2023 Explanation: 2023 Explanation: 2023 Explanation: 2023	Addition of one full time increased project demandant position of \$112,500 is at to be added in 2023. 70 Addition of one full time indepartment to support or position is allocated 80% added in 2022. 50 Addition of one full time indepartment. Total annual O&M component of annual O&M component of annual O&M cost for the mandal in 2025.	0 Sr Environment ds and compliated 27% 0 0 Hazardous Sulverall department of O&M and 209 0 Hazardous Mall compensation and co	otal Specialist ance requiren D&M and 73% 0 bstance Specient workload. % Capital. The 0 oterials Handlen is \$62,500. ion. Position to 0 gas pipeline di 0	in the Cultural nents. The to Capital. O&N 70 ialist in the Ha Total annual e O&M cost in 50 er in the Haza Cost increase to be added in 5 scharge prog	I Resources of tal annual condition of the compensation of the condition of	department to support impensation for this se is \$30,000. Position 1-Sided Adj erials Operations of \$87,500 for this 0,000. Position to be 1-Sided Adj als Operations epresents the 80% 1-Sided Adj mit. 1-Sided Adj
2023 Explanation: 2023 Explanation: 2023 Explanation:	Addition of one full time increased project demandrate position of \$112,500 is at to be added in 2023. 70 Addition of one full time indepartment to support or position is allocated 80% added in 2022. 50 Addition of one full time indepartment. Total annual O&M component of annual O&M component of annual O	0 Sr Environment ds and compliated 27% 0 0 Hazardous Sulverall department of O&M and 209 0 Hazardous Mall compensation and co	otal Specialist ance requiren D&M and 73% 0 bstance Specient workload. % Capital. The 0 oterials Handlen is \$62,500. ion. Position to 0 gas pipeline di 0	in the Cultural nents. The to Capital. O&N 70 ialist in the Ha Total annual e O&M cost in 50 er in the Haza Cost increase to be added in 5 scharge prog	I Resources of tal annual condition of the compensation of the condition of	department to support impensation for this se is \$30,000. Position 1-Sided Adj erials Operations of \$87,500 for this 0,000. Position to be 1-Sided Adj als Operations epresents the 80% 1-Sided Adj mit. 1-Sided Adj

Non-Shared Service Workpapers

SDG&E ENVIRONMENTAL SERVICES AND SONGS Area:

Witness: Brittany A. Syz

A. Environmental Services Category: Category-Sub: 1. Environmental Services

Workpaper:	1EV000.000 - ENVI	RONMENTAI	SDGE NSS	Cost Center		
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
2023	0	58	0	58	0.0	1-Sided Adj
Explanation:	Added costs to support t initiative ensures that all necessary customer and property.	post construc	ction site resto	ration activitie	s have suppor	rt to obtain the
2023	0	7	0	7	0.0	1-Sided Adj
Explanation:	Cost increase for admini for employee turnover, e and general costs include	quipment rep	lacement and	upgrade and	facility costs.	Typical administrative
2023	0	120	0	120	0.0	1-Sided Adj
Explanation:	Added costs to develop develop efficiencies in the sustainability goals.	•		_	•	· ·
2023	0	27	0	27	0.0	1-Sided Adj
Explanation:	Added costs for environr lab testing equipment.	nental lab eq	uipment servic	ce contracts to	ensure reliab	ility and accuracy of
2023	0	72	0	72	0.0	1-Sided Adj
Explanation:	Added cost for the imple O&M estimate to implem years or \$180,088 per ye to be 40%, therefore, SE	ent the plan i ear beginning	s based upon in 2022. The	the total proje O&M portion o	ct cost of \$90	0,440 allocated over 5
2023	0	114	0	114	0.0	1-Sided Adj
Explanation:	Added cost for the mand estimate for implementa anticipate that the O&M 2024 and we expect the	tion of the Pla plan will be d	n is \$325,000 eveloped and	of which \$227 implemented	7,000 represer	nts O&M. We -year period ending
2023 Total	586	475	0	1,061	3.9	
2024	56	0	0	56	0.1	1-Sided Adj
Explanation:	Annualization of off-cycle annualization required be for the effected employe	ecause the ba	•	•	•	•
2024	100	0	0	100	0.1	1-Sided Adj
Explanation:	Annualization of wages to year 2021. Labor annual effected employees.					
2024	85	0	0	85	1.0	1-Sided Adj
Explanation:	Addition of one full time certification, compliance eliminate the need for the	with new sta	ndrads from T	he NELAC Ins	stitute (TNI), m	
2024	0	27	0	27	0.0	1-Sided Adj
	, include rounding differer					•

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

vorkpaper:	1EV000.000 - ENV	IKONWENTAL	SDGE NSS	Cost Center		
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
xplanation:	Added costs for environ lab testing equipment.	ımental lab equ	ipment servic	e contracts to	ensure reliab	oility and accuracy of
2024	0	26	0	26	0.0	1-Sided Adj
Explanation:	Added cost for the man facility. Total permit renannual expense of \$26,	newal cost is \$2				_
2024	0	72	0	72	0.0	1-Sided Adj
xplanation:	Added cost for the man	datory Clevelar	nd National Fo	orest O&M pla	n.	
2024	0	113	0	113	0.0	1-Sided Adj
Explanation:	Management O&M plar of which \$227,000 repre implemented during the be \$114,000 in 2023 an	esents O&M. W two-year perio	e anticipate to deep deep deep deep deep deep deep dee	hat the O&M i	olan will be de	
2024	0	150	0	150	0.0	1-Sided Adj
Explanation:	Added costs for sustain	ability educatio	n, outreach a	nd communica	ation.	
2024	90	0	0	90	8.0	1-Sided Adj
Explanation:	Addition of one full time project demands, susta this position of \$112.50 Position to be added in	inability reportir 0 is allocated 8	ng and compli	ance requiren	nents. Total a	nnual compensation for
2024	30	0	0	30	0.2	1-Sided Adj
explanation:	Addition of one full time increased project dema position of \$112,500 is to be added in 2023.	nds and compl	iance requirer	ments. The to	tal annual co	mpensation for this
2024	70	0	0	70	0.8	1-Sided Adj
Explanation:	Addition of one full time department to support of position is allocated 80° added in 2022.	overall departm	ent workload.	Total annual	compensation	n of \$87,500 for this
2024	50	0	0	50	8.0	1-Sided Adj
Explanation:	Addition of one full time department. Total annuincrease of \$50,000 repadded in 2022.	al compensatio	n is \$62,500 i	s allocated 80	% O&M and	20% Capital. Cost
2024	105	0	0	105	1.0	1-Sided Adj
Explanation:	Addition of one full time non-compliance with fac	•	•	•	•	
2024	0	5	0	5	0.0	1-Sided Adj
Explanation:	Added cost for the man	datory natural લ્	gas pipeline d	ischarge prog	rammatic per	mit.

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type					
2024	0	6	0	6	0.0	1-Sided Adj					
Explanation:	Added cost for consultar	nt to increase	scope of emis	sions data for	sustainability	reporting.					
2024	0	10	0	10	0.0	1-Sided Adj					
Explanation:	Added cost for consultant support needed to update pollution prevention plan, develop and implement new best management practices for the mandatory vault dewatering permit.										
2024	0	58	0	58	0.0	1-Sided Adj					
Explanation:	Added costs to support initiative ensures that all necessary customer and property.	post construc	tion site restor	ation activitie	s have suppor	t to obtain the					
2024	0	120	0	120	0.0	1-Sided Adj					
Explanation:	Added costs to develop develop efficiencies in the sustainability goals.			_	_	•					
2024	0	10	0	10	0.0	1-Sided Adj					
Explanation:	Added cost for the mand	datory constru	ction stormwat	er general pe	ermit.						
2024	0	3	0	3	0.0	1-Sided Adj					
Explanation:	Cost increase for admin existing employees and/phone, computer and fa	or potential er	mployee turnov	er costs. Typ							
2024 Total	586	600	0	1,186	4.8						

Non Charca Scrvice Workpaper

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-i	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	2,917	2,376	2,647	3,083	3,301
Non-Labor	2,111	1,862	1,737	1,811	2,084
NSE	0	0	0	0	0
Total	5,028	4,239	4,383	4,893	5,384
FTE	30.1	24.2	26.5	29.0	30.3
Adjustments (Nominal \$) **					
Labor	-3	1	0	-11	0
Non-Labor	0	15	0	-28	-33
NSE	0	0	0	0	0
Total	-3	16	-1	-39	-33
FTE	-0.2	0.0	-0.1	-0.3	-0.1
Recorded-Adjusted (Nomina	ıl \$)				
Labor	2,914	2,378	2,646	3,071	3,300
Non-Labor	2,111	1,877	1,736	1,783	2,051
NSE	0	0	0	0	0
Total	5,025	4,255	4,383	4,854	5,351
FTE	29.9	24.2	26.3	28.7	30.2
/acation & Sick (Nominal \$)					
Labor	432	360	379	435	496
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	432	360	379	435	496
FTE	5.1	4.2	4.2	4.6	5.1
scalation to 2021\$					
Labor	389	235	176	112	0
Non-Labor	289	189	130	138	0
NSE	0	0	0	0	0
Total	678	425	307	251	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constar	nt 2021\$)				
Labor	3,735	2,973	3,201	3,619	3,796
Non-Labor	2,400	2,066	1,867	1,921	2,051
NSE	0	0	0	0	0
Total	6,135	5,040	5,068	5,540	5,847
FTE	35.0	28.4	30.5	33.3	35.3

^{*} After company-wide exclusions of Non-GRC costs

^{**} Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs										
	Years	2017	2018	2019	2020	2021				
Labor		-3	1	-0.302	-11	-0.302				
Non-Labor		-0.001	15	-0.289	-28	-33				
NSE		0	0	0	0	0				
	Total	-3	16	-0.591	-39	-33				
FTE		-0.2	0.0	-0.1	-0.3	-0.1				

Detail of Adjustments to Recorded:

<u>Year</u>	Labo	<u>r NLbr</u>	NSE.	<u>FTE</u>	Adj Type						
2017	-2	0	0	-0.1	1-Sided Adj						
Explanation:	Incremental costs that are Memorandum Account (Cl	•	equested for I	ecovery thro	ough a non-GRC Catastrophic Event						
2017	C	0	0	0.0	1-Sided Adj						
Explanation:	Adjustment to remove lobbying costs paid to Utilities Solid Waste Activities Group (USWAG).										
2017	C	0	0	-0.1	1-Sided Adj						
Explanation:	Exclude labor expenses associated with lobbying activities (FERC 426.4). This adjustment is in addition to other costs that have already been excluded based other specific accounting attributes.										
2017 Total	-3	0	0	-0.2							
2018	2	0	0	0.1	1-Sided Adj						
Explanation:	Incremental costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).										
2018	C	-9	0	0.0	1-Sided Adj						
Explanation:	Incremental costs that are Memorandum Account (Cl	•	equested for I	ecovery thro	ough a non-GRC Catastrophic Event						
2018	C	24	0	0.0	1-Sided Adj						
Explanation:	Incremental costs that are Memorandum Account (Cl	•	equested for I	ecovery thro	ough a non-GRC Catastrophic Event						
2018	C	0	0	0.0	1-Sided Adj						
Explanation:	Adjustment to remove lobb	ying costs paid to	Utility Solid V	/aste Activiti	es Group (USWAG).						
2018	C	0	0	-0.1	1-Sided Adj						
Explanation:	Exclude labor expenses as other costs that have alread			•	.4). This adjustment is in addition to unting attributes.						
2018 Total	1	15	0	0.0							

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type
2019	0	0	0	0.0	1-Sided Adj
xplanation:	Incremental costs that are anticip Memorandum Account (CEMA).	pated to be reque	ested for reco	very through	a non-GRC Catastrophic Even
2019	0	0	0	0.0	1-Sided Adj
xplanation:	Adjustment to remove lobbying c	osts paid to Utilit	ty Solid Wast	e Activities Gr	oup (USWAG)
2019	0	0	0	-0.1	1-Sided Adj
xplanation:	Exclude labor expenses associat other costs that have already been				
2019 Total	0	0	0	-0.1	
2020	-10	0	0	-0.1	1-Sided Adj
xplanation:	Incremental costs that are anticip Memorandum Account (CEMA).	pated to be reque	ested for reco	very through	a non-GRC Catastrophic Ever
2020	-1	0	0	-0.1	1-Sided Adj
xplanation:	Incremental costs that are anticip Memorandum Account (CEMA).	pated to be reque	ested for reco	very through	a non-GRC Catastrophic Ever
2020	0	-2	0	0.0	1-Sided Adj
xplanation:	Incremental COVID-related costs Catastrophic Event Memorandun			quested for re	covery through a non-GRC
2020	0	-1	0	0.0	1-Sided Adj
cplanation:	Incremental COVID-related costs Catastrophic Event Memorandun	-		quested for re	covery through a non-GRC
2020	0	-1	0	0.0	1-Sided Adj
2020				augusted for re-	covery through a non CDC
	Incremental COVID-related costs Catastrophic Event Memorandun	-		quested for re-	covery unough a non-GRC
		-		0.0	1-Sided Adj
explanation:	Catastrophic Event Memorandun	n Account (CEM 0 s that are anticipa	A). 0 ated to be red	0.0	1-Sided Adj
xplanation: 2020	Catastrophic Event Memorandun 0 Incremental COVID-related costs	n Account (CEM 0 s that are anticipa	A). 0 ated to be red	0.0	1-Sided Adj
2020 Explanation: 2020	Catastrophic Event Memorandun 0 Incremental COVID-related costs Catastrophic Event Memorandun	n Account (CEM. 0 s that are anticipa n Account (CEM. 0 s that are anticipa	A). 0 ated to be rec A). 0 ated to be rec	0.0 quested for re	1-Sided Adj covery through a non-GRC 1-Sided Adj
xplanation: 2020 xplanation: 2020	Catastrophic Event Memorandum 0 Incremental COVID-related costs Catastrophic Event Memorandum 0 Incremental COVID-related costs	n Account (CEM. 0 s that are anticipa n Account (CEM. 0 s that are anticipa	A). 0 ated to be rec A). 0 ated to be rec	0.0 quested for re	1-Sided Adj covery through a non-GRC 1-Sided Adj
2020 Explanation: 2020 Explanation: 2020 Explanation:	Catastrophic Event Memorandum 0 Incremental COVID-related costs Catastrophic Event Memorandum 0 Incremental COVID-related costs Catastrophic Event Memorandum	that are anticipal of the that are anticipal of th	A). 0 ated to be rec A). 0 ated to be rec A). 0 ated to be rec ated to be rec	0.0 quested for re- 0.0 quested for re-	1-Sided Adj covery through a non-GRC 1-Sided Adj covery through a non-GRC 1-Sided Adj
2020 Explanation: 2020 Explanation: 2020 Explanation:	Catastrophic Event Memorandum 0 Incremental COVID-related costs Catastrophic Event Memorandum 0 Incremental COVID-related costs Catastrophic Event Memorandum 0 Incremental COVID-related costs	that are anticipal of the that are anticipal of th	A). 0 ated to be rec A). 0 ated to be rec A). 0 ated to be rec ated to be rec	0.0 quested for re- 0.0 quested for re-	1-Sided Adj covery through a non-GRC 1-Sided Adj covery through a non-GRC 1-Sided Adj

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

workpaper.						
<u>Year</u>		<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type
2020		0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event				uested for re	ecovery through a non-GRC
2020		0	-9	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event		•		uested for re	ecovery through a non-GRC
2020		0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event		•		uested for re	ecovery through a non-GRC
2020		0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event		•		uested for re	ecovery through a non-GRC
2020		0	-3	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event		•		uested for re	ecovery through a non-GRC
2020		0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event				uested for re	ecovery through a non-GRC
2020		0	0	0	-0.1	1-Sided Adj
Explanation:	Exclude labor expe other costs that have			•		This adjustment is in addition to ng attributes.
2020 Total		-11	-28	0	-0.3	
2021		0	0	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event		-		uested for re	ecovery through a non-GRC
2021		0	0	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event				uested for re	ecovery through a non-GRC
2021		0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event		•		uested for re	ecovery through a non-GRC
2021		0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID Catastrophic Event		•		uested for re	ecovery through a non-GRC
2021		0	-3	0	0.0	1-Sided Adj

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Category: A. Environmental Services
Category-Sub: 1. Environmental Services

Workpaper: 1EV000.000 - ENVIRONMENTAL SDGE NSS Cost Center

<u>Year</u>	Labo	or I	NLbr	NSE	FTE	Adj Type
Explanation:		ted costs that a	re anticipated			very through a non-GRC
2021		0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-relation Catastrophic Event Mem		•	d to be reque	sted for reco	very through a non-GRC
2021		0	-5	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-relation Catastrophic Event Mem		-	d to be reque	sted for reco	very through a non-GRC
2021		0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-relation Catastrophic Event Mem		•	d to be reque	sted for reco	very through a non-GRC
2021		0	-3	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-relation Catastrophic Event Mem		•	d to be reque	sted for reco	very through a non-GRC
2021		0	-4	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-relation Catastrophic Event Mem		•	d to be reque	sted for reco	very through a non-GRC
2021		0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-relation Catastrophic Event Mem		•	d to be reque	sted for reco	very through a non-GRC
2021		0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-relation Catastrophic Event Mem		-	d to be reque	sted for reco	very through a non-GRC
2021		0	-10	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove lo (CCEEB).	bbying costs pa	aid to Califorr	nia Council fo	r Environme	ntal and Economic Balance
2021		0	0	0	-0.1	1-Sided Adj
Explanation:	Exclude labor expenses other costs that have alre			•	,	is adjustment is in addition to attributes.
2021 Total		0	-33	0	-0.1	

Supplemental Workpapers for Workpaper 1EV000.000

Non-Shared Service Workpapers

Supplemental Workpaper: Support to and From Other Witnesses: 1EV000.001

 $Sulfur\ Hexafluoride\ (SF6)/Regulation\ for\ Reducing\ Greenhouse\ Gas\ Emissions\ from\ Gas\text{-}Insulated$

Equipment

SDG&E is required to prepare and submit an annual report for SF6 emissions in accordance with

Subpart DD of the US EPA's GHG Mandatory Reporting Rule (MRR). Additionally, SDG&E has to

comply with CARB's Regulation for Reducing Greenhouse Gas (GHG) Emissions from Gas Insulated

Equipment (GIE) (as part of the AB32 requirements) and the CO2e emission limit and annual reporting

requirements therein.

SF6 is a potent GHG with a global warming potential (GWP) 22,800 times that of carbon dioxide

(CO2). Although SF6 is emitted in smaller quantities than many other greenhouse gases, its atmospheric

lifetime of 3,200 years causes it to accumulate in the earth's atmosphere for centuries. Because of its

unique dielectric properties, electric utilities rely on SF6 in electric power systems for voltage electrical

insulation, current interruption, and arc quenching in the distribution of electricity. While SF6 should

theoretically remain contained within equipment, in reality, the gas may be emitted into the atmosphere

inadvertently if leaks should develop during various stages of the equipment's lifecycle.

Under US EPA's Subpart DD, owners, or operators of electric power system facilities with a total

nameplate capacity that exceeds 17,280 pounds of SF6 must report emissions of SF6 from the use of

electrical distribution equipment. Electric power system facilities include electric power distribution

systems that operate gas-insulated substations, circuit breakers, switchgear, gas-insulated lines or power

transformers. Pursuant to Subpart DD, SDG&E has to calculate entity-wide SF6 losses from its system

(using a mass-balance approach of SF6 purchases made, amounts sent to be recycled, and increase in

nameplate capacity of equipment), and follow the specified procedures for quality assurance,

recordkeeping, and reporting. Reports are due annually by March 31st for data collected in the previous

calendar year. Subpart DD was enforced starting January 2011, with the first SF6 report submitted in

September 2012 (for the 2011 emissions year).

On December 30, 2021, the California Office of Administrative Law approved the amended

Regulation for Reducing Greenhouse Gas Emissions from Gas- Insulated Equipment; the amendments

became effective on January 1, 2022. The amended regulation requires an acquisition phase-out schedule

(take effect in stages between 2025 and 2033) of the use of SF6 in gas-insulated equipment based upon

configuration (aboveground or underground), voltage capacity, and short-circuit current rating; adds a phase-out exemption; changes from an annual emission rate ($\leq 1.0\%$) to an annual emission limit in metric ton CO₂e. The amended regulation establishes methods to minimize the growth of the emissions limit over time. Reports are due annually by June 1st for data collected in the previous calendar year.

In order to maintain continued compliance with EPA's Subpart DD and CARB's Regulation for Reducing Greenhouse Gas Emissions from Gas-Insulated Equipment, SDG&E has to track closely the usage and disbursement of SF6 and covered insulating gas that has a GWP > 1 (installation and removal of gas-insulated distribution switchgear equipment) in its system. This process is labor intensive and requires retrieval of information from various internal databases and coordination with field personnel.

In order to achieve higher efficiencies, implement a more robust quality assurance program, reduce the risk of errors, and make progress toward achieving and sustaining the CARB mandated CO₂e emission limit, additional software Tools and staffing resources will be needed. In addition, field surveys will be needed to maintain an updated inventory of gas insulated equipment. SDG&E's Electric Distribution Engineering group has identified the incremental costs associated with the additional resources and measures that will be needed to maintain continued compliance with the US EPA's Subpart DD and CARB's Regulation for Reducing Greenhouse Gas Emissions from Gas-Insulated Equipment. The Electric Distribution Engineering group has also developed a program, to proactively replace SF6 distribution gas-insulated equipment with non-SF6 alternatives.

FACILITY: San Diego Gas and Electric, Kearny PCB Storage Facility

EXHIBIT A

Department of Toxic Substances Control

PERMIT: Standardized HWTS Permit Renewal - Series C

PROJECT MANAGER: Michael Zamudio

SITE: DTSC400636-78

PERMITTING APPLICATION PROCESSING COST ESTIMATE¹

DATE: December 2020																					
		Project Manager	Cost Estimating Engineer	Supervisor	Branch Chief	Engineering Special Projects Unit	Enforcement	Corrective Action Specialist	Geologic Services Unit	Human and Ecological Risk Office	ndustrial Hygienist	Public Participation	Office of Legal Counsel	California Environmental Quality Act Unit	Financial Assurance Unit	Clerical	Travel	Contracts/ Other Expenses	Total Hours	Cı	ost
	Estimation Rates	\$252	\$317	\$333	\$350	\$269	\$220	\$269	\$271	\$259	\$220	\$167	\$315	\$217	\$167	\$102	'				
TASK 1: INITIAL COMPLETENESS REVIEW (ADMINISTRAT	TIVE COMPLETENESS)																				
	HOURS	26		5	1							4	1		4	1	T			[
	SUBTOTAL ESTIMATED COST	\$6,552		\$1,499								\$668			\$1,336	\$102		\$353	40	\$	10,50
TASK 2: TECHNICAL REVIEW OF PERMIT APPLICATION																			_		
2A: TECHNICAL REVIEW THRU ISSUANCE OF 1ST N	NOD																				
ZA. TECHNICAL REVIEW THRU ISSUANCE OF IST	HOURS	280		12		40	14		20	۱					1	1	r	r		r—	
	SUBTOTAL ESTIMATED COST	\$71,568		\$3,996		\$8,070	\$3,080		\$5,420				\$630			\$306	\$949		369	\$	94,03
2B: REVIEW OF 1ST NOD RESPONSE AND ISSUAN			ETERMINAT	-		+ = , = : =	+=,===		70,100			L	7			7	70.0				
2D. REVIEW OF 131 NOD RESPONSE AND 1330AN	HOURS	70	ZETEKWIIVA	20		14	7						<u>4</u>		1	1	Г		Γ	r=	
	SUBTOTAL ESTIMATED COST	\$21,672	\$3,170	\$999		\$3,766	\$1,760						\$2,520			\$102			116	\$	33,98
2C: REVIEW OF RESPONSE TO 2ND NOD AND TEC	CHNICAL COMPLETE DETERMINA																				
	HOURS			т		Т	·								1		Г		T	[
	SUBTOTAL ESTIMATED COST																			\$	-
TASK 3: DRAFT PERMIT DECISION		<u> </u>													<u> </u>						
TASKS. DIGIT FERWIT DECISION	SUBTOTAL HOURS	46		10	4		8	2					22		1						
	SUBTOTAL ESTIMATED COST	\$11,592		\$3,330	\$1,400		\$2,640						\$6,930						92	\$	25,89
TASK 4: CEQA COMPLIANCE																					
	SUBTOTAL HOURS	28		5									6	22	1		T		F	<u> </u>	
													-						61	\$	15,38
		\$7,056		\$1,665									\$1,890	\$4,774						4	
TASK 5. PUBLIC PARTICIPATION	SUBTOTAL ESTIMATED COST			\$1,665									\$1,890	\$4,774							
TASK 5: PUBLIC PARTICIPATION	SUBTOTAL ESTIMATED COST	\$7,056										104		\$4,774	<u> </u>	28					
TASK 5: PUBLIC PARTICIPATION				\$1,665 8 \$2,664								104 \$17,368	\$1,890 11 \$3,465			28 \$2,856		\$2,525	181	\$	38,09
	SUBTOTAL ESTIMATED COST SUBTOTAL HOURS	\$7,056 24		8									11	6				\$2,525	181	\$	38,09
	SUBTOTAL ESTIMATED COST SUBTOTAL HOURS SUBTOTAL ESTIMATED COST	\$7,056 24 \$6,048		8 \$2,664	2		2					\$17,368	11 \$3,465	6		\$2,856	\$1,868	\$2,525	<u></u>	<u> </u>	38,09
	SUBTOTAL ESTIMATED COST SUBTOTAL HOURS	\$7,056 24		8	2 \$700		2 \$440						11	6			\$1,868	\$2,525	181	<u> </u>	
TASK 6: FINAL PERMIT	SUBTOTAL ESTIMATED COST SUBTOTAL HOURS SUBTOTAL ESTIMATED COST SUBTOTAL HOURS	\$7,056 24 \$6,048		8 \$2,664	2 \$700							\$17,368	11 \$3,465	6		\$2,856	\$1,868		<u></u>	<u> </u>	
TASK 5: PUBLIC PARTICIPATION TASK 6: FINAL PERMIT TASK 7: PROJECT MANAGEMENT	SUBTOTAL ESTIMATED COST SUBTOTAL HOURS SUBTOTAL ESTIMATED COST SUBTOTAL HOURS SUBTOTAL ESTIMATED COST	\$7,056 24 \$6,048		8 \$2,664	2 \$700							\$17,368	11 \$3,465	6		\$2,856	\$1,868		80	\$	17,64
TASK 6: FINAL PERMIT	SUBTOTAL ESTIMATED COST SUBTOTAL HOURS SUBTOTAL ESTIMATED COST SUBTOTAL HOURS	\$7,056 24 \$6,048 34 \$8,568		8 \$2,664	2 \$700							\$17,368	11 \$3,465	6		\$2,856	\$1,868		<u></u>	\$	38,09 17,64 23,55

^{1.} See attached Task Description and Cost Assumptions for a description of the type of work included for each task and assumptions used to generate the costs.

San Diego Gas & Electric Company 2024 GRC - APP Non-Shared Service Workpapers

^{2.} Additional costs may be incurred depending upon the quality of the application received and the facility responsiveness to NODs.

Supplemental Workpaper: Environmental Management System (EMS) 1EV000.003

The Environmental Services O&M planned costs for the Environmental Management System are shown below.

Environmental Services - SDG&E	Funding Type	2022	2023	2024	2025	2026
	0&M	\$132K	\$120K	\$120K	\$120K	120K

Supplemental Work Paper: Sustainability Program Cost Estimates 1EV000.004

The following are cost estimates provided by SDG&E Corporate Communications and Marketing group for the following activities. The estimates are based on similar previous campaigns.

Activities	Estimated Cost	Documentation of Costs
Production of SDG&E Sustainability Report to share transparent progress on sustainability goals with network of stakeholders.	\$75,000	Copy of report available at sdge.com/sustainability
Production of digital media Content and campaign to support ongoing engagement On sustainability topics, Including third-party studies Demonstrating paths to Decarbonize the energy sector.	\$75,000	Copy of report available at sdge.com/sustainability

In 2021\$ (000) Incurred Costs

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Workpaper: VARIOUS

Summary for Category: B. NERBA

		<u>In 2021\$ (000) Inc</u>	curred Costs	
	Adjusted-Recorded		Adjusted-Forecast	
	2021	2022	2023	2024
Labor	0	0	0	0
Non-Labor	1,442	1,423	1,455	1,403
NSE	0	0	0	0
Total	1,442	1,423	1,455	1,403
FTE	0.0	0.0	0.0	0.0
Workpapers belonging	to this Category:			
1EV001.001 RNERBA	A-PCB Phase Out			
Labor	0	0	0	0
Non-Labor	0	0	0	0
NSE	0	0	0	0
Total	<u>_</u>	0		0
FTE	0.0	0.0	0.0	0.0
1EV001.002 RNERBA	A-AB32 Fees-Electric			
Labor	0	0	0	0
Non-Labor	313	414	414	414
NSE	0	0	0	0
Total	313	414	414	414
FTE	0.0	0.0	0.0	0.0
1EV001.003 RNERBA	A-MS4-Electric			
Labor	0	0	0	0
Non-Labor	0	15	31	5
NSE	0	0	0	0
Total		15	31	5
FTE	0.0	0.0	0.0	0.0
1EV002.001 RNERBA	\-Subpart W			
Labor	0	0	0	0
Non-Labor	2	2	2	2
NSE	0	0	0	0
Total	2	2	2	2
FTE	0.0	0.0	0.0	0.0
1EV002.002 RNERBA	A-AB32 Fees-Gas			
Labor	0	0	0	0
Non-Labor	961	917	917	917
NSE	0	0	0	0
Total	961	917	917	917
FTE	0.0	0.0	0.0	0.0

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Workpaper: VARIOUS

		In 2021\$ (000) Incu	rred Costs	
	Adjusted-Recorded			
	2021	2022	2023	2024
1EV002.003 RNERBA	-LDAR			
Labor	0	0	0	0
Non-Labor	166	60	60	60
NSE	0	0	0	0
Total	166	60	60	60
FTE	0.0	0.0	0.0	0.0
EV002.004 RNERBA	-MS4-Gas			
Labor	0	0	0	0
Non-Labor	0	15	31	5
NSE	0	0	0	0
Total		15	31	5
FTE	0.0	0.0	0.0	0.0

Beginning of Workpaper
1EV001.001 - RNERBA-PCB Phase Out

Non-Shared Service Workpapers

SDG&E ENVIRONMENTAL SERVICES AND SONGS Area:

Witness: Brittany A. Syz B. NERBA Category: Category-Sub 1. NERBA

1EV001.001 - RNERBA-PCB Phase Out Workpaper:

Activity Description:

The Polychlorinated Biphenyls (PCB) Phase Out account was created to track the costs associated with identifying and removing PCBs from SDG&E's electrical and non-electrical equipment system. The PCB Phase Out account is a separate subaccount to the New Environmental Regulation Balancing Account (NERBA), SDG&E is not forecasting any costs related to this activity during the GRC period.

Forecast Explanations:

Labor - Base YR Rec

There are no labor costs included in the forecast for this activity.

Non-Labor - Base YR Rec

There are no non labor costs included in the forecast for this activity.

NSE - Base YR Rec

The are no costs subject to non-standard escalation (NSE) included in the forecast for this activity.

Summary of Results:

				In 2021\$ (00	00) Incurred	Costs			
		Adju	ısted-Recor	ded		Adjusted-Forecast			
Years	2017	2018	2019	2020	2022	2023	2024		
Labor	0	0	0	0	0	0	0	0	
Non-Labor	0	0	0	0	0	0	0	0	
NSE	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	
FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV001.001 - RNERBA-PCB Phase Out

Summary of Adjustments to Forecast:

			In 202	1 \$(000) li	ncurred Co	sts				
Forecast	t Method	Base Forecast			Forec	ast Adjust	ments	Adjusted-Forecast		
Years	Years		2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
Non-Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	I	0	0	0	0	0	0	0	0	0
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	Lobor				CTC	Adi Type	
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FIE</u>	<u>Adj Type</u>	

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV001.001 - RNERBA-PCB Phase Out

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-Re	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal S	\$)				
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
/acation & Sick (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2021\$					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant	2021\$)				
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

^{*} After company-wide exclusions of Non-GRC costs

^{**} Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV001.001 - RNERBA-PCB Phase Out

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs											
	Years	2017	2018	2019	2020	2021					
Labor	-	0	0	0	0	0					
Non-Labor		0	0	0	0	0					
NSE		0	0	0	0	0					
	Total -	0 -	0		0	0					
FTE		0.0	0.0	0.0	0.0	0.0					

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	

Beginning of Workpaper
1EV001.002 - RNERBA-AB32 Fees-Electric

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub 1. NERBA

Workpaper: 1EV001.002 - RNERBA-AB32 Fees-Electric

Activity Description:

SDG&E is required to pay annual administrative fees as required by the California Global Warming Solutions Act of 2006, referred to as AB32. The fees are paid to the California Air Resources Board for each megawatt hour of net power generated by the combustion of natural gas. The AB32 Fees-Electric are included in a separate subaccount to the New Environmental Regulation Balancing Account (NERBA).

Forecast Explanations:

Labor - Base YR Rec

There are no labor costs included in the forecast.

Non-Labor - Base YR Rec

A base year forecast methodology was used to determine cost requirements for NERBA as a cost category. This method is most appropriate because it identifies specific environmental regulatory requirements and their related costs impacting the company during the GRC period. The specific cost drivers are best applied to a the most recent base year spend and would not be captured by traditional averaging or trending which may not be reflective of more recent spending patterns. Further, as NERBA costs are not readily predictable given the attributes described earlier, traditional average of historical costs may not be a representative or accurate forecasting methodology. A base year forecast methodology was used because it is an effective way to forecast AB 32-Electric fees which are dependent on the volume of covered emissions as well as the common carbon cost factor. The volume of covered emissions varies based upon weather conditions, maintenance outages and market conditions including California Independent System Operator (CAISO) dispatch frequencies and power imports from non-SDGE power plants. The common carbon cost factor is set by the State of California each year based upon their administrative costs and staffing and overall statewide GHG emissions. Since these factors are variable and uncertain in nature, using the most recent base year represents a conservative and realistic baseline since it utilizes our most recent experience with the covered emissions volumes and the common cost factor variables.

NSE - Base YR Rec

There are no non standard escalation (NSE) costs included in the forecast.

Summary of Results:

[In 2021\$ (000) Incurred Costs									
		Adjι	ısted-Recor	ded		Adjusted-Forecast					
Years	2017	2018	2019	2020	2021	2022	2023	2024			
Labor	0	0	0	0	0	0	0	0			
Non-Labor	441	453	464	543	313	414	414	414			
NSE	0	0	0	0	0	0	0	0			
Total	441	453	464	543	313	414	414	414			
FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV001.002 - RNERBA-AB32 Fees-Electric

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs									
Forecas	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjusted-Forecast		
Years		2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
Non-Labor	Base YR Rec	313	313	313	101	101	101	414	414	414
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl	313	313	313	101	101	101	414	414	414
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

Forecast Adjustr	ilelit Details.										
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type					
2022	0	101	0	101	0.0	1-Sided Adj					
Explanation:		dded costs based upon higher projected emissions levels for the electric generating facilities ompared to the base year which were compartively lower than prior years.									
2022 Total	0	101	0	101	0.0						
2023	0	101	0	101	0.0	1-Sided Adj					
Explanation:	Added costs based upo compared to the base y				•	rating facilities					
2023 Total	0	101	0	101	0.0						
2024	0	101	0	101	0.0	1-Sided Adj					
Explanation:		lded costs based upon higher projected emissions levels for the electric generating facilities mpared to the base year which were compartively lower than prior years.									
2024 Total	0	101	0	101	0.0						

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV001.002 - RNERBA-AB32 Fees-Electric

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-N	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	388	412	431	503	313
NSE	0	0	0	0	0
Total	388	412	431	503	313
FTE	0.0	0.0	0.0	0.0	0.0
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal	\$)				
Labor	0	0	0	0	0
Non-Labor	388	412	431	503	313
NSE	0	0	0	0	0
Total	388	412	431	503	313
FTE	0.0	0.0	0.0	0.0	0.0
/acation & Sick (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
scalation to 2021\$					
Labor	0	0	0	0	0
Non-Labor	53	41	32	39	0
NSE	0	0	0	0	0
Total	53	41	32	39	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constan	t 2021\$)				
Labor	0	0	0	0	0
Non-Labor	441	453	464	543	313
NSE	0	0	0	0	0
Total	441	453	464	543	313
FTE	0.0	0.0	0.0	0.0	0.0

^{*} After company-wide exclusions of Non-GRC costs

^{**} Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV001.002 - RNERBA-AB32 Fees-Electric

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs										
	Years	2017	2018	2019	2020	2021					
Labor		0	0	0	0	0					
Non-Labor		0	0	0	0	0					
NSE		0	0	0	0	0					
	Total		0	0	0	0					
FTE		0.0	0.0	0.0	0.0	0.0					

<u>Year</u>	Labor	<u>NLbr</u>	NSE	<u>FTE</u>	Adj Type	

Supplemental Workpapers for Workpaper 1EV001.002

		SDG&E AB	32 COI Fees - CAR	B Billing Summary						
		D'II - 1 :- 2012	D:II - 1 :- 2014	D'II- d :- 2045	Dillod to 2016	D'II - 1 '- 2017	D:II - 1 :- 2010	D:III :- 2040	D:III :- 2020	D:II - 1 :- 2024
		Billed in 2013	Billed in 2014	Billed in 2015	Billed in 2016	Billed in 2017	Billed in 2018	Billed in 2019	Billed in 2020	Billed in 2021
		(For 2011 Emission Year)	(For 2012 Emission Year)	(For 2013 Emission Year)	(For 2014 Emission Year)	(For 2015 Emission Year)	(For 2016 Emission Year)	(For 2017 Emission Year)	(For 2018 Emission Year)	(For 2019 Emission Year)
Facility	ARB ID #	Amount								
Electric Power Entity	3004	\$87,924	\$77,538	\$225,868	\$130,935	\$151,149	\$169,861	\$161,111	\$264,251	\$177,358
Miramar Energy Facility	101401	\$10,849	\$11,471	\$11,444	\$7,013	\$8,789	\$16,862	\$15,796	\$15,022	\$10,746
Palomar Energy Facility	100362	\$122,391	\$128,809	\$216,154	\$146,769	\$228,380	\$224,855	\$254,272	\$224,215	\$124,707
Cuyamaca Peak Energy Plant ¹	101663	\$0	\$3,341	\$3,596	\$2,051	\$0	\$0	\$0	\$0	\$0
NERBA -Electric		\$221,164	\$221,159	\$457,062	\$286,768	\$388,318	\$411,578	\$431,179	\$503,488	\$312,811
Total Covered Emissions (CO2e) MT		1,541,344	1,844,379	3,263,596	1,935,739	1,964,416	1,632,042	1,664,918	1,690,851	1,165,844
Common Carbon Cost (\$/MT CO2e) ²		0.145	0.121	0.151	0.148	0.198	0.252	0.259	0.298	0.268
Natural Gas - Local Distribution	104087	\$559,954	\$470,605	\$587,385	\$517,201	\$733,511	\$922,127	\$965,034	\$984,799	\$960,513
NERBA - Gas		\$559,954	\$470,605	\$587,385	\$517,201	\$733,511	\$922,127	\$965,034	\$984,799	\$960,513
Total Covered Emissions (CO2e) MT					3,487,626					
		3,841,725	3,878,411	3,885,262		3,701,789	3,656,504	3,726,285	3,307,221	3,580,198
Common Carbon Cost (\$/MT		0.145	0.404	0.151	0.110	0.400	0.252	0.350		0.000
CO2e) ²		0.145	0.121	0.151	0.148	0.198	0.252	0.259	0.298	0.268
	Total	\$781,118	\$691,764	\$1,044,447	\$803,969	\$1,121,829	\$1,333,705	\$1,396,213	\$1,488,287	\$1,273,324

¹Cuyamaca was not part of SDGE's portfolio during 2011 (it was owned/operated by CalPeak). Cuyamaca has not billed since 2017 since its emissions have been below the required threshold for AB32 reporting/verification.

San Diego Gas & Electric Company

2024 GRC - APP Non-Shared Service Workpapers

² Common Carbon Cost is calculated by CARB based on total required revenue to administer the program divided by the total statewide emissions covered by the AB32 Regulation. The CCC fluctuates from year to year based on revenue requirements and statewide emissions for a particular year.

Beginning of Workpaper 1EV001.003 - RNERBA-MS4-Electric

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub 1. NERBA

Workpaper: 1EV001.003 - RNERBA-MS4-Electric

Activity Description:

The Municipal Separate Stormwater Sewer System-Electric (MS4-Electric) permit minimizes the discharge of pollutants in stormwater and protects water resources through the implementation of best management practices for construction activities and the discharge of water from Company facilities. The compliance costs associated with the mandatory MS4 permit are included as a separate subaccount to the New Environmental Regulation Balancing account (NERBA).

Forecast Explanations:

Labor - Base YR Rec

There are no labor charges associated with the MS4-Electric subaccount for the forecast period.

Non-Labor - Base YR Rec

A base year forecast methodology was used to determine cost requirements for NERBA as a cost category. This method is most appropriate because it identifies specific environmental regulatory requirements and their related costs impacting the company during the GRC period. The specific cost drivers are best applied to a the most recent base year spend and would not be captured by traditional averaging or trending which may not be reflective of more recent spending patterns. Further, as NERBA costs are not readily predictable given the attributes described earlier, traditional average of historical costs may not be a representative or accurate forecasting methodology. A base year forecast methodology plus in incremental upward pressures for consultant survey costs and best management practices was used because it is an effective way to forecast costs for this particular activity. The base year represents a realistic baseline since it utilizes our most recent experience with the costs required to comply with the MS4 permit.

NSE - Base YR Rec

There are no non standard escalation (NSE) costs to forecast for the MS4-Electric account.

Summary of Results:

		In 2021\$ (000) Incurred Costs									
		Adju	ısted-Recor	ded		Adjusted-Forecast					
Years	2017	2018	2019	2020	2021	2022	2023	2024			
Labor	41	0	0	0	0	0	0	0			
Non-Labor	28	0	0	0	0	15	31	5			
NSE	0	0	0	0	0	0	0	0			
Total	68	0	0	0	0	15	31	5			
FTE	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

San Diego Gas & Electric Company 2024 GRC - APP

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV001.003 - RNERBA-MS4-Electric

Summary of Adjustments to Forecast:

			In 202	1 \$(000) li	ncurred Co	sts				
Forecas	t Method	Base Forecast			Forec	ast Adjust	ments	Adjusted-Forecast		
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
Non-Labor	Base YR Rec	0	0	0	15	31	5	15	31	5
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl	0	0	0	15	31	5	15	31	5
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustr	ment Details:									
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type				
2022	0	15	0	15	0.0	1-Sided Adj				
Explanation:	Added costs for the mandatory San Diego Municipal Region 9 and Caltrans permits. The State Water Resources Control Board is updating both permits to regulate discharges from municipal jurisdictions and certain right of way to surface waters.									
2022 Total	0	15	0	15	0.0					
2023	0	31	0	31	0.0	1-Sided Adj				
Explanation:	Added costs for the man Resources Control Board and certain right of way t	d is updating bo	oth permits to	•	•					
2023 Total	0	31	0	31	0.0					
2024	0	5	0	5	0.0	1-Sided Adj				
Explanation:	Added costs for the mandatory San Diego Municipal Region 9 and Caltrans permits. The State Water Resources Control Board is updating both permits to regulate discharges from municipal jurisdictions and certain right of way to surface waters.									
2024 Total	0	5	0	5	0.0					

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV001.003 - RNERBA-MS4-Electric

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusteu	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	32	0	0	0	0
Non-Labor	24	0	0	0	0
NSE	0	0	0	0	0
Total	56	0	0	0	0
FTE	0.3	0.0	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomin	al \$)				
Labor	32	0	0	0	0
Non-Labor	24	0	0	0	0
NSE	0	0	0	0	0
Total	56	0	0	0	0
FTE	0.3	0.0	0.0	0.0	0.0
Vacation & Sick (Nominal \$)				
Labor	5	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	5	0	0	0	0
FTE	0.1	0.0	0.0	0.0	0.0
Escalation to 2021\$					
Labor	4	0	0	0	0
Non-Labor	3	0	0	0	0
NSE	0	0	0	0	0
Total	8	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	ant 2021\$)				
Labor	41	0	0	0	0
Non-Labor	28	0	0	0	0
NSE	0	0	0	0	0
Total	68	0	0	0	0
FTE	0.4	0.0	0.0	0.0	0.0

^{*} After company-wide exclusions of Non-GRC costs

^{**} Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV001.003 - RNERBA-MS4-Electric

Summary of Adjustments to Recorded:

		In Nominal	\$ (000) Incurred Co	osts						
Years 2017 2018 2019 2020 2021										
Labor		0	0	0	0	0				
Non-Labor		0	0	0	0	0				
NSE		0	0	0	0	0				
	Total		0	0	0	0				
FTE		0.0	0.0	0.0	0.0	0.0				

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	

Beginning of Workpaper 1EV002.001 - RNERBA-Subpart W

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub 1. NERBA

Workpaper: 1EV002.001 - RNERBA-Subpart W

Activity Description:

Environmental Protection Agency Subpart W Petroleum and Natural Gas system of Part 98 of Title 40 of the Code of Federal Regulations (Subpart W) is a separate subaccount to the New Environmental Regulation Balancing Account (NERBA). The Subpart W subaccount is used to track the costs of conducting natural gas leak surveys on meter and regulation stations in the SDG&E service territory in addition to costs related to monitoring and reporting requirements for the Green House Gas (GHG) Mandatory Reporting Rule issued by the Environmental Protection Agency.

Forecast Explanations:

Labor - Base YR Rec

There are no labor costs forecasted for this activity,

Non-Labor - Base YR Rec

A base year forecast methodology was used to determine cost requirements for NERBA as a cost category. This method is most appropriate because it identifies specific environmental regulatory requirements and their related costs impacting the company during the GRC period. The specific cost drivers are best applied to a the most recent base year spend and would not be captured by traditional averaging or trending which may not be reflective of more recent spending patterns. Further, as NERBA costs are not readily predictable given the attributes described earlier, traditional average of historical costs may not be a representative or accurate forecasting methodology. A base year forecasting methodology plus incremental upward pressures minus incremental downward pressures including testing, survey, reporting and consultant costs was used to because it is the most effective way to forecast Subpart W expenses. Using the most recent base year represents a conservative and realistic baseline upon which to apply forecasted incremental cost pressures or cost reductions for this activity.

NSE - Base YR Rec

There are no non standard escalation (NSE) costs forecasted for this activity.

Summary of Results:

		In 2021\$ (000) Incurred Costs									
		Adju	ısted-Recor		Adjusted-Forecast						
Years	2017	2018	2019	2020	2021	2022	2023	2024			
Labor	0	0	0	0	0	0	0	0			
Non-Labor	3	2	8	4	2	2	2	2			
NSE	0	0	0	0	0	0	0	0			
Total	3	2	8	4	2	2	2	2			
FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV002.001 - RNERBA-Subpart W

Summary of Adjustments to Forecast:

			In 202	1 \$(000) I	ncurred Co	sts				
Forecas	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	ted-Forec	ast
Years		2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
Non-Labor	Base YR Rec	2	2	2	0	0	0	2	2	2
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl		2	2	0	0	0	2	2	2
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj Type	
- 1								

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV002.001 - RNERBA-Subpart W

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	3	2	8	4	2
NSE	0	0	0	0	0
Total	3	2	8	4	2
FTE	0.0	0.0	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomina	ıl \$)				
Labor	0	0	0	0	0
Non-Labor	3	2	8	4	2
NSE	0	0	0	0	0
Total	3	2	8	4	2
FTE	0.0	0.0	0.0	0.0	0.0
/acation & Sick (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2021\$					
Labor	0	0	0	0	0
Non-Labor	0	0	1	0	0
NSE	0	0	0	0	0
Total	0	0	1	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constan	nt 2021\$)				
Labor	0	0	0	0	0
Non-Labor	3	2	8	4	2
NSE	0	0	0	0	0
Total	3	2	8	4	2
FTE	0.0	0.0	0.0	0.0	0.0

^{*} After company-wide exclusions of Non-GRC costs

^{**} Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV002.001 - RNERBA-Subpart W

Summary of Adjustments to Recorded:

		In Nominal	\$ (000) Incurred Co	osts						
Years 2017 2018 2019 2020 2021										
Labor		0	0	0	0	0				
Non-Labor		0	0	0	0	0				
NSE		0	0	0	0	0				
	Total		0	0	0	0				
FTE		0.0	0.0	0.0	0.0	0.0				

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	

Beginning of Workpaper 1EV002.002 - RNERBA-AB32 Fees-Gas

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub 1. NERBA

Workpaper: 1EV002.002 - RNERBA-AB32 Fees-Gas

Activity Description:

SDG&E is required to pay annual administrative fees as required by the California Global Warming Solutions Act of 2006, referred to as AB32. The fees are paid to the California Air Resources Board for each therm of natural gas delivered to any customer in California. The AB32-Gas fees are included as a separate subaccount to the New Environmental Regulation Balancing Account (NERBA)

Forecast Explanations:

Labor - Base YR Rec

There are no labor charges forecasted in the AB32 subaccount.

Non-Labor - Base YR Rec

A base year forecast methodology was used to determine cost requirements for NERBA as a cost category. This method is most appropriate because it identifies specific environmental regulatory requirements and their related costs impacting the company during the GRC period. The specific cost drivers are best applied to a the most recent base year spend and would not be captured by traditional averaging or trending which may not be reflective of more recent spending patterns. Further, as NERBA costs are not readily predictable given the attributes described earlier, traditional average of historical costs may not be a representative or accurate forecasting methodology. A base year forecast methodology was used because it is an effective way to forecast AB 32-Electric fees which are dependent on the volume of covered emissions as well as the common carbon cost factor. The volume of covered emissions varies based upon weather conditions, maintenance outages and market conditions including California Independent System Operator (CAISO) dispatch frequencies and power imports from non-SDGE power plants. The common carbon cost factor is set by the State of California each year based upon their administrative costs and staffing and overall statewide GHG emissions. Since these factors are variable and uncertain in nature, using the most recent base year represents a conservative and realistic baseline since it utilizes our most recent experience with the covered emissions volumes and the common cost factor variables.

NSE - Base YR Rec

There are no non-standard escalation (NSE) costs to forecast for this activity.

Summary of Results:

		In 2021\$ (000) Incurred Costs									
		Adju	ısted-Recor	Adjusted-Forecast							
Years	2017	2018	2019	2022	2023	2024					
Labor	0	0	0	0	0	0	0	0			
Non-Labor	834	1,019	1,033	1,061	961	917	917	917			
NSE	0	0	0	0	0	0	0	0			
Total	834	1,019	1,033	1,061	961	917	917	917			
FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

San Diego Gas & Electric Company 2024 GRC - APP

Non-Shared Service Workpapers

SDG&E ENVIRONMENTAL SERVICES AND SONGS Area:

Witness: Brittany A. Syz B. NERBA Category: 1. NERBA Category-Sub:

Workpaper: 1EV002.002 - RNERBA-AB32 Fees-Gas

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecast	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	ted-Forec	ast	
Years	5	2022	2022 2023 2024		2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0	
Non-Labor	Base YR Rec	961	961	961	-44	-44	-44	917	917	917	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	ı	961	961	961	-44	-44	-44	917	917	917	
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Forecast Adjustment Details:

Forecast Adjustn	ient Details.						
<u>Year</u>	<u>Labo</u>	r <u>NLb</u>	r <u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022		0 -4	4 0	-44	0.0	1-Sided Adj	
Explanation:	Adjustment to r carbon costs.	educe forecasted	costs compare	d to base yea	r costs based	upon lower common	
2022 Total		0 -4	4 0	-44	0.0		
2023		0 -4	4 0	-44	0.0	1-Sided Adj	
Explanation:	Adjustment to r carbon costs.	educe forecasted	costs compare	d to base yea	r costs based	upon lower common	
2023 Total		0 -4	4 0	-44	0.0		
2024		0 -4	4 0	-44	0.0	1-Sided Adj	
Explanation:	Adjustment to r carbon costs.	educe forecasted	costs compare	d to base yea	r costs based	upon lower common	
2024 Total		0 -4	4 0	-44	0.0		

San Diego Gas & Electric Company 2024 GRC - APP

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV002.002 - RNERBA-AB32 Fees-Gas

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Adjusted-N	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	734	926	961	985	961
NSE	0	0	0	0	0
Total	734	926	961	985	961
FTE	0.0	0.0	0.0	0.0	0.0
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal	\$)				
Labor	0	0	0	0	0
Non-Labor	734	926	961	985	961
NSE	0	0	0	0	0
Total	734	926	961	985	961
FTE	0.0	0.0	0.0	0.0	0.0
acation & Sick (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
scalation to 2021\$					
Labor	0	0	0	0	0
Non-Labor	100	93	72	76	0
NSE	0	0	0	0	0
Total	100	93	72	76	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Constan	t 2021\$)				
Labor	0	0	0	0	0
Non-Labor	834	1,019	1,033	1,061	961
NSE	0	0	0	0	0
Total	834	1,019	1,033	1,061	961
FTE	0.0	0.0	0.0	0.0	0.0

^{*} After company-wide exclusions of Non-GRC costs

^{**} Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV002.002 - RNERBA-AB32 Fees-Gas

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs										
	Years	2017	2018	2019	2020	2021					
Labor		0	0	0	0	0					
Non-Labor		0	0	0	0	0					
NSE		0	0	0	0	0					
	Total		0	0 -	0	0					
FTE		0.0	0.0	0.0	0.0	0.0					

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	

Beginning of Workpaper 1EV002.003 - RNERBA-LDAR

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub 1. NERBA

Workpaper: 1EV002.003 - RNERBA-LDAR

Activity Description:

The Leak Detection Abatement and Repair (LDAR) subaccount was created to track and record compliance costs associated with the rules and procedures under Senate Bill 1371 for Commission regulated gas pipelines in order to reduce emissions of natural gas pursuant to the California Global Warming Solutions Act of 2006. The LDAR is a separate subaccount to the New Environmental Regulation Balancing Account (NERBA)

Forecast Explanations:

Labor - Base YR Rec

There are no labor costs forecasted for this subaccount.

Non-Labor - Base YR Rec

A base year forecast methodology was used to determine cost requirements for NERBA as a cost category. This method is most appropriate because it identifies specific environmental regulatory requirements and their related costs impacting the company during the GRC period. The specific cost drivers are best applied to a the most recent base year spend and would not be captured by traditional averaging or trending which may not be reflective of more recent spending patterns. Further, as NERBA costs are not readily predictable given the attributes described earlier, traditional average of historical costs may not be a representative or accurate forecasting methodology. A base year forecasting methodology is used since it is a reliable way to estimate the costs associated with complying with LDAR activities on the SDG&E system. Using the most recent base year represents a realistic baseline of costs since it utilizes our most recent experience with the the specific gas facilities and related survey and maintenance requirements needed to comply with the LDAR rules and procedures under Senate Bill 1371.

NSE - Base YR Rec

There are no non-standard escalation expenses (NSE) to forecast in this subaccount.

Summary of Results:

		In 2021\$ (000) Incurred Costs									
		Adju	sted-Recor	Adjusted-Forecast							
Years	2017	2018	2019	2022	2023	2024					
Labor	0	0	0	0	0	0	0	0			
Non-Labor	0	0	28	286	166	60	60	60			
NSE	0	0	0	0	0	0	0	0			
Total	0	0	28	286	166	60	60	60			
FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

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Non-Shared Service Workpapers

SDG&E ENVIRONMENTAL SERVICES AND SONGS Area:

Witness: Brittany A. Syz B. NERBA Category: Category-Sub: 1. NERBA

Workpaper: 1EV002.003 - RNERBA-LDAR

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs									
Forecas	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	ted-Forec	ast
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
Non-Labor	Base YR Rec	166	166	166	-106	-106	-106	60	60	60
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl	166	166	166	-106	-106	-106	60	60	60
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

orecast Adjust	ment Details:					
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type
2022	0	-106	0	-106	0.0	1-Sided Adj
Explanation:	Reduced estimated co and repair expenses. years.	•	•			detection abatement of costs in the forecast
2022 Total	0	-106	0	-106	0.0	
2023	0	-106	0	-106	0.0	1-Sided Adj
Explanation:	Reduced estimated co and repair expenses. years.	•	•			detection abatement of costs in the forecast
2023 Total	0	-106	0	-106	0.0	
2024	0	-106	0	-106	0.0	1-Sided Adj
Explanation:	Reduced estimated co and repair expenses.	=	<u>-</u>			detection abatement of costs in the forecast

0

-106

0.0

Note: Totals may include rounding differences.

years.

0

-106

2024 Total

SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Area:

Workpaper: 1EV002.003 - RNERBA-LDAR

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	0	0	26	266	166
NSE	0	0	0	0	0
Total	0	0	26	266	166
FTE	0.0	0.0	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomina	al \$)				
Labor	0	0	0	0	0
Non-Labor	0	0	26	266	166
NSE	0	0	0	0	0
Total	0	0	26	266	166
FTE	0.0	0.0	0.0	0.0	0.0
acation & Sick (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
scalation to 2021\$					
Labor	0	0	0	0	0
Non-Labor	0	0	2	21	0
NSE	0	0	0	0	0
Total	0	0	2	21	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constan	nt 2021\$)				
Labor	0	0	0	0	0
Non-Labor	0	0	28	286	166
NSE	0	0	0	0	0
Total	0	0	28	286	166
FTE	0.0	0.0	0.0	0.0	0.0

^{*} After company-wide exclusions of Non-GRC costs

^{**} Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV002.003 - RNERBA-LDAR

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs										
	Years	2017	2018	2019	2020	2021					
Labor		0	0	0	0	0					
Non-Labor		0	0	0	0	0					
NSE		0	0	0	0	0					
	Total		0	0 -	0	0					
FTE		0.0	0.0	0.0	0.0	0.0					

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	

Beginning of Workpaper 1EV002.004 - RNERBA-MS4-Gas

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub 1. NERBA

Workpaper: 1EV002.004 - RNERBA-MS4-Gas

Activity Description:

The municipal separate stormwater sewer system (MS4-Gas) permit minimizes the discharge of pollutants in stormwater and protects water resources through the implementation of best management practices for construction activities and the discharge of water from Company facilities. The compliance costs associated with the MS4 permit are included in a separate subaccount to the New Environmental Regulation Balancing Account (NERBA).

Forecast Explanations:

Labor - Base YR Rec

There are no labor costs forecasted for this subaccount.

Non-Labor - Base YR Rec

A base year forecast methodology was used to determine cost requirements for NERBA as a cost category. This method is most appropriate because it identifies specific environmental regulatory requirements and their related costs impacting the company during the GRC period. The specific cost drivers are best applied to a the most recent base year spend and would not be captured by traditional averaging or trending which may not be reflective of more recent spending patterns. Further, as NERBA costs are not readily predictable given the attributes described earlier, traditional average of historical costs may not be a representative or accurate forecasting methodology. A base year forecast methodology plus in incremental upward pressures for consultant survey costs and best management practices was used because it is an effective way to forecast costs for this particular activity. The base year represents a realistic baseline since it utilizes our most recent experience with the costs required to comply with the MS4 permit.

NSE - Base YR Rec

There are no non-standard escalation (NSE) costs forecasted for this subaccount.

Summary of Results:

In 2021\$ (000) Incurred Costs Adjusted-Recorded Adjusted-Forecast Years 2017 2018 2019 2020 2021 2022 2023 2024 41 0 0 0 0 0 0 0 Labor Non-Labor 28 0 0 0 0 15 31 5 0 **NSE** 0 0 0 0 0 0 0 68 0 0 0 0 15 31 5 **Total** FTE 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0

San Diego Gas & Electric Company 2024 GRC - APP

Non-Shared Service Workpapers

SDG&E ENVIRONMENTAL SERVICES AND SONGS Area:

Witness: Brittany A. Syz B. NERBA Category: 1. NERBA Category-Sub:

Workpaper: 1EV002.004 - RNERBA-MS4-Gas

Summary of Adjustments to Forecast:

			In 202	1 \$(000) li	ncurred Co	sts				
Forecast	t Method	Base Forecast		Forec	ast Adjust	ments	Adjus	ted-Forec	ast	
Years	5	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
Non-Labor	Base YR Rec	0	0	0	15	31	5	15	31	5
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	I	0	0	0	15	31	5	15	31	5
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:											
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type					
2022	0	15	0	15	0.0	1-Sided Adj					
Explanation:	Added costs for the mandatory San Diego Municipal Region 9 and Caltrans permits. The State Water Resources Control Board is updating both permits to regulate discharges from municipal jurisdictions and certain right of way to surface waters.										
2022 Total	0	15	0	15	0.0						
2023	0	31	0	31	0.0	1-Sided Adj					
Explanation:	•										
2023 Total	0	31	0	31	0.0						
2024	0	5	0	5	0.0	1-Sided Adj					
Explanation:	planation: Added costs for the mandatory San Diego Municipal Region 9 and Caltrans permits. The State Water Resources Control Board is updating both permits to regulate discharges from municipal jurisdictions and certain right of way to surface waters.										
2024 Total	0	5	0	5	0.0						

San Diego Gas & Electric Company 2024 GRC - APP

Non-Shared Service Workpapers

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV002.004 - RNERBA-MS4-Gas

Determination of Adjusted-Recorded (Incurred Costs):

termination of Aujustea	-Recorded (Incurred Cos 2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
ecorded (Nominal \$)*	· · ·	· · ·			
Labor	32	0	0	0	0
Non-Labor	24	0	0	0	0
NSE	0	0	0	0	0
Total	56	0	0	0	0
FTE	0.3	0.0	0.0	0.0	0.0
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Nomin	al \$)				
Labor	32	0	0	0	0
Non-Labor	24	0	0	0	0
NSE	0	0	0	0	0
Total	56	0	0	0	0
FTE	0.3	0.0	0.0	0.0	0.0
acation & Sick (Nominal \$)				
Labor	5	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	5	0	0	0	0
FTE	0.1	0.0	0.0	0.0	0.0
scalation to 2021\$					
Labor	4	0	0	0	0
Non-Labor	3	0	0	0	0
NSE	0	0	0	0	0
Total	8	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Consta	ant 2021\$)				
Labor	41	0	0	0	0
Non-Labor	28	0	0	0	0
NSE	0	0	0	0	0
Total	68	0	0	0	0
FTE	0.4	0.0	0.0	0.0	0.0

^{*} After company-wide exclusions of Non-GRC costs

^{**} Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: B. NERBA
Category-Sub: 1. NERBA

Workpaper: 1EV002.004 - RNERBA-MS4-Gas

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs									
	Years	2017	2018	2019	2020	2021			
Labor		0	0	0	0	0			
Non-Labor		0	0	0	0	0			
NSE		0	0	0	0	0			
	Total		0	0 -	0	0			
FTE		0.0	0.0	0.0	0.0	0.0			

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: C. SONGS
Workpaper: 1EV003.000

Summary for Category: C. SONGS

		In 2021\$ (000) Incu	urred Costs	
	Adjusted-Recorded		Adjusted-Forecast	
	2021	2022	2023	2024
Labor	0	0	0	0
Non-Labor	1,216	0	0	0
NSE	0	1,486	1,513	1,540
Total	1,216	1,486	1,513	1,540
FTE	0.0	0.0	0.0	0.0

Workpapers belonging to this Category:

1EV003.000	EG ·	-SONGS	Wkp_	Grp_1	
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Labor	0	0	0	0
Non-Labor	1,216	0	0	0
NSE	0	1,486	1,513	1,540
Total	1,216	1,486	1,513	1,540
FTE	0.0	0.0	0.0	0.0

Beginning of Workpaper 1EV003.000 - EG -SONGS Wkp_Grp_1

San Diego Gas & Electric Company 2024 GRC - APP

Non-Shared Service Workpapers

SDG&E ENVIRONMENTAL SERVICES AND SONGS Area:

Witness: Brittany A. Syz C. SONGS Category: 1. SONGS Category-Sub

1EV003.000 - EG -SONGS Wkp_Grp_1 Workpaper:

Activity Description:

SDG&E incurs O&M expenses for marine mitigation and worker's compensation costs related to the San Onofre Nuclear Generating Facility (SONGS). SDG&E is obligated to these O&M costs because they are not related to the decommissioning of the SONGS and are not recoverable from the decommissioning trust. Under the current cost recovery mechanism, Southern California Edison (SCE) includes the full amount of these costs in their GRC testimony and bills SDG&E for it's 20% ownership share of these costs plus overheads.

Marine mitigation costs are related to ongoing projects designed to mitigate the turbidity effects caused by the movement of ocean water used to cool SONGS. Worker's compensation costs are related to the master insurance program from 1972-1999 in addition to the self-insured program maintained by SCE for worker's compensation expense incurred after 1999.

Forecast Explanations:

Labor - Zero-Based

Non-standard escalation (NSE) is the appropriate forecasting methodology as SCE applies labor overhead rates to direct labor charges to recover administrative and general, pension and benefits and payroll taxes. SCE applies labor overhead rates to direct labor charges to recover administrative and general, pension and benefits and payroll taxes. SCE bills SDG&E based upon SDG&E's 20% ownership of SONGS. This is an existing commission approved methodology.

Non-Labor - Zero-Based

Non-standard escalation (NSE) is the appropriate forecasting methodology as SCE applies non-labor overhead rates to direct non-labor charges charges to recover administrative and general expenses. SCE bills SDG&E based upon SDG&E's 20% ownership of SONGS. This is an existing commission approved methodology.

NSE - Zero-Based

Non-standard escalation (NSE) is the most appropriate forecasting methodology as SCE incurs costs and bills SDG&E for SDG&E's 20% ownership of SONGS. These amounts are escalated using rates approved in SCE's TY21 GRC. This is an existing commission approved methodology.

Summary of Results:

		In 2021\$ (000) Incurred Costs										
		Adju	ısted-Recor	Ad	justed-Fored	cast						
Years	2017	2018	2019	2020	2021	2022	2023	2024				
Labor	14	6	0	0	0	0	0	0				
Non-Labor	-152	1,231	3,971	2,154	1,216	0	0	0				
NSE	0	0	0	0	0	1,486	1,513	1,540				
Total	-138	1,237	3,971	2,154	1,216	1,486	1,513	1,540				
FTE	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0				

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: C. SONGS
Category-Sub: 1. SONGS

Workpaper: 1EV003.000 - EG -SONGS Wkp_Grp_1

Summary of Adjustments to Forecast:

			In 202	1 \$(000) I	ncurred Co	sts				
Forecas	t Method	Base Forecast		Forec	ast Adjust	ments	Adjus	ted-Forec	ast	
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Zero-Based	0	0	0	0	0	0	0	0	0
Non-Labor	Zero-Based	0	0	0	0	0	0	0	0	0
NSE	Zero-Based	0	0	0	1,486	1,513	1,540	1,486	1,513	1,540
Tota	ıl	0	0	0	1,486	1,513	1,540	1,486	1,513	1,540
FTE	Zero-Based	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj Type
2022	0	0	1,307	1,307	0.0	1-Sided Adj
Explanation:	Zero based forecast with	non standard	l escalation f	or marine mitig	ation costs.	
2022	0	0	179	179	0.0	1-Sided Adj
Explanation:	Zero based forecast with	non standard	l escalation f	or workers com	pensation co	sts.
2022 Total	0	0	1,486	1,486	0.0	
2023	0	0	1,330	1,330	0.0	1-Sided Adj
Explanation:	Zero based forecast with	non standard	l escalation f	or marine mitig	ation costs.	
2023	0	0	183	183	0.0	1-Sided Adj
Explanation:	Zero based forecast with	non standard	l escalation f	or workers com	pensation co	sts.
2023 Total	0	0	1,513	1,513	0.0	
2024	0	0	1,354	1,354	0.0	1-Sided Adj
Explanation:	Zero based forecast with	non standard	l escalation f	or marine mitig	ation costs.	
2024	0	0	186	186	0.0	1-Sided Adj
Explanation:	Zero based forecast with	non standard	l escalation f	or workers com	pensation co	sts.
2024 Total	0	0	1,540	1,540	0.0	

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: C. SONGS
Category-Sub: 1. SONGS

Workpaper: 1EV003.000 - EG -SONGS Wkp_Grp_1

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-Ne	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	11	4	0	0	0
Non-Labor	-134	1,118	3,694	2,001	1,232
NSE	0	0	0	0	0
Total	-123	1,123	3,694	2,001	1,232
FTE	0.1	0.0	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-2	-16
NSE	0	0	0	0	0
Total	0	0	0	-2	-16
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)				
Labor	11	4	0	0	0
Non-Labor	-134	1,118	3,694	1,999	1,216
NSE	0	0	0	0	0
Total	-123	1,123	3,694	1,999	1,216
FTE	0.1	0.0	0.0	0.0	0.0
/acation & Sick (Nominal \$)					
Labor	2	1	0	0	0
Non-Labor	0	0	0	0	0
NSE	0 2	0	0	0	0
Total		1	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
scalation to 2021\$					
Labor	1	0	0	0	0
Non-Labor	-18	113	278	155	0
NSE	0	0	0	0	0
Total	-17	113	278	155	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2	2021\$)				
Labor	14	6	0	0	0
Non-Labor	-152	1,231	3,971	2,154	1,216
NSE	0	0	0	0	0
Total	-138	1,237	3,971	2,154	1,216
FTE	0.1	0.0	0.0	0.0	0.0

^{*} After company-wide exclusions of Non-GRC costs

^{**} Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz
Category: C. SONGS
Category-Sub: 1. SONGS

Workpaper: 1EV003.000 - EG -SONGS Wkp_Grp_1

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs										
	Years	2017 2018 2019 2020 202								
Labor		0	0	0	0	0				
Non-Labor		0	0	0	-2	-16				
NSE		0	0	0	0	0				
	Total		0	0	-2	-16				
FTE		0.0	0.0	0.0	0.0	0.0				

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type
2017 Total	0	0	0	0.0	
2018 Total	0	0	0	0.0	
2019 Total	0	0	0	0.0	
2020	0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related Catastrophic Event Memora		=	requested f	or recovery through a non-GRC
2020 Total	0	-2	0	0.0	
2021	0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related Catastrophic Event Memora			requested f	or recovery through a non-GRC
2021	0	-12	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove WNR	MA costs.			
2021	0	-2	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove costs	from SONGS.			
2021 Total	0	-16	0	0.0	

Supplemental Workpapers for Workpaper 1EV003.000

Test Year 2024 Summary of SONGS O&M

Environmental Services - SONGS					
Categories of Management	2021 Forecast	2022 Forecast	2023 Forecast	TY2024 Estimated	
	(2021\$)	(2022\$)	(2023\$)	(2024\$)	
Marine Mitigation	\$1,285	\$1,307	\$1,330	\$1,354	(Refer to Marine M
SONGS Worker's Compensation	\$177	\$179	\$183	\$186	(Refer to Worker's
Total	\$1,461	\$1,486	\$1,513	\$1,540	

(Refer to Marine Mitigation Supporting Calculation)
(Refer to Worker's Comp Supporting Calculation)

San Diego Gas & Electric Company 2024 GRC - APP

Non-Shared Service Workpapers

Revised escalation rate updated on October 29, 2021 Source: Susan Tran, SCE

San Diego Gas & Electric Company

SONGS Marine Mitigation Supporting Calculations Wheeler North Reef and San Dieguito Wetlands Test Year 2024

				<u>2021</u> (Nominal \$)	<u>2022</u> (Nominal \$)	<u>2023</u> (Nominal \$)	<u>2024</u> (Nominal \$)	
LINE				<u>(ποπιπατ φη</u>	(ποιιιιαι φη	(Itommur y)	(Itommar y)	
1	SCE Labor Escalation ¹				1.031	1.057	1.086	
2	SCE Non Labor Escalation ²				1.017	1.035	1.054	
3	SCE 78.21 % Incurred - Direct Costs							
	Calculation Support							
4	Marine Mitigation Labor		(A)	44,368	45,727	46,899	48,170	Calculation: Line 1 x (A)
5	Marine Mitigation Non-Labor		(B)	4,918,908	5,002,247	5,092,289	5,182,871	Calculation: Line 2 x (B)
6	Total Direct Costs SCE 78.21%			4,963,276	5,047,974	5,139,188	5,231,041	Calculation: Add Line 4 plus Line 5
7	SCE Overhead Costs		Rates					
8	SCE A&G Labor OH	(C)	26.48%	11,749	12,109	12,419	12,755	Calculation: Line 4 x (C)
9	SCE A&G Non-Labor OH	(D)	1.00%	49,189	50,022	50,923	51,829	Calculation: Line 5 x (D)
10	SCE Total Overhead Costs			60,938	62,131	63,342	64,584	Calculation: Add Line 8 plus Line 9
11	Total SCE Share at 78.21% with Overheads			5,024,214	5,110,105	5,202,530	5,295,625	Calculation: Add Line 6 plus Line 10
12	100% Incurred Costs with Overheads			6,424,005	6,533,826	6,652,001	6,771,033	Calculation: Line 11 x 78.21%
				20%	20%	20%	20%	
13	SDG&E 20% Share with Billed Overheads			1,284,801	1,306,765	1,330,400	1,354,207	Calculation: Line 12 x 20%
					Forecast	Forecast	Forecast	

Note:

¹Updated to reflect SCE's escalation rates provided by Susan Tran, SCE on October 29, 2021. (Refer to O&M Labor Price Indexes And Escalation Rates Support Provided)

² Updated to reflect SCE's escalation rates provided by Susan Tran, SCE on October 29, 2021. (Refer to O&M Non-labor Price Indexes And Escalation Rates Support Provided)

SONGS Worker's Compensation Master Insurance Program (MIP) and Industrial Accident Test Year 2024

	1	<u>2021</u> Nominal \$)	2022 (Nominal \$)	2023 (Nominal \$)	2024 (Nominal \$)
			(B)	(C)	(D)
SCE Non Labor Escalation ¹			1.017	1.035	1.054
SDGE's 20% Share	(A)	176,555	179,546	182,778	186,029
Calculation Support			(A) x (B)	(A) x (C)	(A) x (D)
			Forecast	Forecast	Forecast

Note:

¹Updated to reflect SCE's escalation rates provided by Susan Tran, SCE on October 29, 2021. (Refer to O&M Non-labor Price Indexes And Escalation Rates Support Provided)

O&M Labor Price Indexes And Escalation Rates

				Labor I	Escalatio	n Rates		1
Mnemonic	Short Label	Weight		2021	2022	2023	2024	
	United States, Wages and Salaries, Private, Professional and							
ECIPWPARNS.A.FOP2	Related, Units: (2005:4=100)	33.3%	(A)	2.56%	3.14%	2.56%	2.52%	(B)
	United States, Wages and Salaries, Private, Management,							
ECIPWMBFNS.A.FOP2	Business, Financial, Units: (2005:4=100)	18.4%	(C)	2.49%	3.40%	2.87%	2.92%	(D)
	United States, Average Hourly Earnings, Electric Power							
CEU4422110008.A.FOP2	Generation Transmission and Distribution, Units: \$/Hr	48.2%	(E)	3.00%	2.88%	2.45%	2.76%	(F)
SCE Collective Bargaining A	48.2%		3.00%					

Weight	2021	2022	2023	2024
	1.0000	1.031	1.057	1.086
			(G)	
	1.0000	0.9703	0.9460	0.9211
100.0%	2.76%	3.06%	2.56%	2.71%
		1.0000	1.0000 1.031 1.0000 0.9703	1.0000 1.031 1.057 (G) 1.0000 0.9703 0.9460

Calculation: (G) x (H)

Calculation: $[(A) \times (B) + (C) \times (D) + (E) \times (F)]$

IHS Markit Forecast 2019-2021 2021 GRC Update (May 2020) 2022- 2031 IHS Power Planner (October 2021) © 2021 IHS Markit



O&M Non-labor Price Indexes And Escalation Rates

		Weight	2021	GRC Up	odate	Escal	ation Ra	ates -
Mnemonic	Label		2019	2020	2021	2022	2023	2024
JEFOMMS.A.FOP2	Total Steam Production Operation and Maintenance Cost Index (MS),		1.014	1.006	1.000	1.040	1.032	1.036
Deflation Index			0.986	0.994	1.000	0.961	0.969	0.965
Percent Change		0.08%	2.46%	-0.82%	-0.55%	4.02%	-0.76%	0.35%
JEHOMMS.A.FOP2	Total Hydro Production Operation and Maintenance Cost Index (MS),		1.036	1.007	1.000	1.043	1.038	1.039
Deflation Index			0.965	0.993	1.000	0.959	0.963	0.963
Percent Change		2.37%	2.20%	-2.84%	-0.69%	4.29%	-0.43%	0.03%
JEOOMMS.A.FOP2	Total Other Production Operation and Maintenance Cost Index (MS),		1.017	1.006	1.000	1.044	1.044	1.047
Deflation Index			0.983	0.994	1.000	0.958	0.958	0.955
Percent Change		4.10%	2.50%	-1.08%	-0.63%	4.43%	-0.01%	0.23%
JETOMMS.A.FOP2	Total Transmission Plant Operation and Maintenance Cost Index (MS),		1.010	1.004	1.000	1.027	1.023	1.023
Deflation Index] [0.990	0.996	1.000	0.973	0.977	0.977
Percent Change		12.94%	2.25%	-0.61%	-0.40%	2.72%	-0.41%	0.02%
JEDOMMS.A.FOP2	Total Distribution Plant Operation and Maintenance Cost Index (MS),		1.021	1.004	1.000	1.036	1.019	1.012
Deflation Index] [0.979	0.996	1.000	0.965	0.981	0.988
Percent Change		33.37%	2.41%	-1.70%	-0.36%	3.61%	-1.63%	-0.67%
JECAOMS.A.FOP2	Customer Accounts - Operation Cost Index (MS),		0.994	0.983	1.000	1.035	1.054	1.072
Deflation Index] [1.006	1.017	1.000	0.966	0.949	0.933
Percent Change		5.16%	2.93%	-1.04%	1.70%	3.51%	1.83%	1.73%
JECSIOMS.A.FOP2	Customer Service and Information Operation Cost Index (MS),		1.009	0.987	1.000	1.037	1.046	1.058
Deflation Index] [0.991	1.013	1.000	0.965	0.956	0.945
Percent Change		1.29%	2.81%	-2.19%	1.31%	3.67%	0.86%	1.18%
	Total Administration and General Operation and Maintenance Cost Index							
JEADGOMMS@H.A.FOP2	Without Healthcare (LMS),		0.975	0.985	1.000	1.017	1.035	1.054
Deflation Index			1.025	1.015	1.000	0.983	0.966	0.949
Percent Change		40.69%	2.16%	1.02%	1.49%	1.69%	1.80%	1.78%
JENOMMS.A.FOP2	Total Nuclear Production Operation and Maintenance Cost Index (MS),		1.011	0.998	1.000	1.037	1.035	1.041
Deflation Index			0.989	1.002	1.000	0.964	0.966	0.960
Percent Change		100.00%	2.33%	-1.24%	0.18%	3.69%	-0.21%	0.64%
							•	
	Blended Nonlabor O&M 2021\$		2019	2020	2021	2022	2023	2024
	Inflation Index		0.999	0.995	1.000	1.028	1.030	1.036
	Deflation Index		1.001	1.005	1.000	0.973	0.971	0.965
	Percent Change		2.32%	-0.43%	0.50%	2.76%	0.23%	0.62%

San Diego Gas & Electric Company 2024 GRC - APP Non-Shared Service Workpapers

2019-2021 2021 GRC Update (May 2020) 2022- 2031 IHS Power Planner (October 2021)

Source: IHS Markit Power Planner

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Area: SDG&E ENVIRONMENTAL SERVICES AND SONGS

Witness: Brittany A. Syz

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	<u>Description</u>
2100-0190	000	HAZARDOUS MATERIAL MANAGEMENT
2100-0206	000	HAZMAT & HAZ WASTE OPS MANAGER
2100-0298	000	SAN ONOFRE UNIT 1
2100-0299	000	SAN ONOFRE UNIT 2
2100-0300	000	SAN ONOFRE COMMON FACILITIES
2100-0302	000	SAN ONOFRE UNIT 2&3 C&O
2100-0303	000	SONGS INSURANCE COVERAGE
2100-0305	000	NUCLEAR FUEL
2100-0323	000	GENERATION DIVESTURE
2100-0398	000	HAZARDOUS MATERIAL - SDGE
2100-0632	000	ENVIRONMENTAL LAB OPERATIONS
2100-3022	000	SDGE ENVIRONMENTAL PROGRAMS
2100-3035	000	SITE ASSESSMENT & MITIGATION
2100-3282	000	ENVIRONMENTAL STRATEGY & SUSTAINABILITY
2100-3304	000	SILVERGATE SITE ASSESSMENT & MITIGATION
2100-3416	000	SONGS
2100-3589	000	ENVIRONMENTAL SERVICES DIRECTOR
2100-3685	000	ENVIRONMENTAL FIELD OPERATIONS
2100-3851	000	SUNRISE ENVIRONMENTAL
2100-3858	000	ENVIRONMENTAL CAPITAL PROGRAMS
2100-3965	000	ENVIRONMENTAL MITIGATION MANAGEMENT
2100-3967	000	ENVIRONMENTAL PLANNING
2100-3968	000	ENVIRONMENTAL AIR QUALITY GHG
2100-3969	000	ENVIRONMENTAL WATER RESOURCES
2100-3970	000	ENVIRONMENTAL NATURAL RESOURCES
2100-3971	000	ENVIRONMENTAL CULTURAL RESOURCES
2100-3985	000	ENVIROMENTAL COMMUNICATIONS
2100-3987	000	ENV ENHANCEMENT PROGRAM
2100-4138	000	ENVIRONMENTAL GIS