

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&E-25-WP)

WORKPAPERS TO
PREPARED DIRECT TESTIMONY
OF TIA L. BALLARD
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-25-WP - INFORMATION TECHNOLOGY

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Overall Summary For Exhibit No. SDG&E-25-WP

Area:	INFORMATION TECHNOLOGY
Witness:	Tia L. Ballard

Description	In 2021 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2021	2022	2023	2024
Non-Shared Services	19,808	25,910	28,079	27,113
Shared Services	78,187	75,986	79,607	83,305
Total	97,995	101,896	107,686	110,418

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard

Summary of Non-Shared Services Workpapers:

Description	In 2021 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2021	2022	2023	2024
A. Applications	10,678	19,287	21,045	20,382
B. Infrastructure	9,130	6,623	7,034	6,731
Total	19,808	25,910	28,079	27,113

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Workpaper: 1IT002.000

Summary for Category: A. Applications

	In 2021\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2021	2022	2023	2024
Labor	2,916	5,329	5,598	5,787
Non-Labor	7,762	13,958	15,447	14,595
NSE	0	0	0	0
Total	10,678	19,287	21,045	20,382
FTE	22.0	42.1	44.3	45.9

Workpapers belonging to this Category:

1IT002.000 Non-shared Operational Applications

Labor	2,916	5,329	5,598	5,787
Non-Labor	7,762	13,958	15,447	14,595
NSE	0	0	0	0
Total	10,678	19,287	21,045	20,382
FTE	22.0	42.1	44.3	45.9

Note: Totals may include rounding differences.

Beginning of Workpaper
1IT002.000 - Non-shared Operational Applications

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Workpaper: 1IT002.000 - Non-shared Operational Applications

Activity Description:

The non-shared SDG&E IT applications costs represent labor and non-labor for technology systems where 100% of the activities directly support the objectives of operating and maintaining SDG&E infrastructure systems safely and reliably. The types of functions supported in this area include customer billing and revenue management, smart grid and electric operations, meter data services, smart grid and electric operations portfolio management office, applications and utility operations maintenance agreements, and customer information systems (CIS) operations. Customer information systems includes ongoing costs related to the CIS replacement.

Forecast Explanations:

Labor - Base YR Rec

Historical costs have fluctuated between various workgroups as a result of either internal organizational changes, transfers of responsibilities, or shifting of cost drivers from one area of the IT department to another. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

Non-Labor - Base YR Rec

Historical costs, such as contractor services and cost of software and/or hardware, have fluctuated as a result of shifting cost drivers in the IT department. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2017	2018	2019	2020	2021	2022	2023	2024	
Labor		4,462	4,367	3,656	2,749	2,916	5,329	5,598	5,787	
Non-Labor		7,048	7,153	8,682	8,439	7,762	13,958	15,447	14,595	
NSE		0	0	0	0	0	0	0	0	
Total		11,509	11,521	12,339	11,188	10,678	19,287	21,045	20,382	
FTE		34.8	32.7	29.9	22.2	22.0	42.1	44.3	45.9	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Workpaper: 1IT002.000 - Non-shared Operational Applications

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	2,916	2,916	2,916	2,413	2,682	2,871	5,329	5,598	5,787
Non-Labor	Base YR Rec	7,762	7,762	7,762	6,196	7,685	6,833	13,958	15,447	14,595
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		10,678	10,678	10,678	8,609	10,367	9,704	19,287	21,045	20,382
FTE	Base YR Rec	22.0	22.0	22.0	20.1	22.3	23.9	42.1	44.3	45.9

Forecast Adjustment Details:

Year	Labor	NLbr	NSE	Total	FTE	Adj Type
2022	-348	-485	0	-833	-2.9	1-Sided Adj
Explanation:	Benefit 502.1: Retire CISCO; CIS Replacement Benefit reduction related to not requiring support for legacy CISCO system					
2022	168	0	0	168	1.4	1-Sided Adj
Explanation:	Adding 2 internal Employees to support growing IT initiatives at 70% O&M					
2022	2,668	7,505	0	10,173	22.2	1-Sided Adj
Explanation:	Adding CIS replacement Ongoing costs (internal employees, contract labor, and ongoing SW Maintenance) on top of amount included in Base Year					
2022	-39	-37	0	-76	-0.3	1-Sided Adj
Explanation:	Benefit 504.1: Retire MyAccount; CIS Replacement Benefit reduction related to not requiring support for legacy CISCO system					
2022	-36	-85	0	-121	-0.3	1-Sided Adj
Explanation:	Benefit 506.1: Retire SEAD; CIS Replacement Benefit reduction related to not requiring support for legacy CISCO system					
2022	0	-70	0	-70	0.0	1-Sided Adj
Explanation:	Benefit New 6: Retire Proquire; Envision Benefit reduction related to no longer needing Proquire Maintenance					
2022	0	-280	0	-280	0.0	1-Sided Adj
Explanation:	Benefit New 7: Retire Red Clay; Envision Benefit reduction related to no longer needing monthly legacy support from Red Clay					
2022	0	-352	0	-352	0.0	1-Sided Adj
Explanation:	Reduced Consulting Services related to managed service services that are no longer needed					
2022 Total	2,413	6,196	0	8,609	20.1	
2023	-348	-485	0	-833	-2.9	1-Sided Adj
Explanation:	Benefit 502.1: Retire CISCO; CIS Replacement Benefit reduction related to not requiring support for legacy CISCO system					

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Workpaper: 1IT002.000 - Non-shared Operational Applications

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>
2023	336	0	0	336	2.8	1-Sided Adj
Explanation:	Adding 2 additional internal Employees (on top of 2022) to support growing IT initiatives at 70% O&M					
2023	2,769	8,994	0	11,763	23.0	1-Sided Adj
Explanation:	Adding CIS replacement Ongoing costs (internal employees, contract labor, and ongoing SW Maintenance) on top of amount included in Base Year					
2023	-39	-37	0	-76	-0.3	1-Sided Adj
Explanation:	Benefit 504.1: Retire MyAccount; CIS Replacement Benefit reduction related to not requiring support for legacy CISCO system					
2023	-36	-85	0	-121	-0.3	1-Sided Adj
Explanation:	Benefit 506.1: Retire SEAD; CIS Replacement Benefit reduction related to not requiring support for legacy CISCO system					
2023	0	-70	0	-70	0.0	1-Sided Adj
Explanation:	Benefit New 6: Retire Proquire; Envision Benefit reduction related to no longer needing Proquire Maintenance					
2023	0	-280	0	-280	0.0	1-Sided Adj
Explanation:	Benefit New 7: Retire Red Clay; Envision Benefit reduction related to no longer needing monthly legacy support from Red Clay					
2023	0	-352	0	-352	0.0	1-Sided Adj
Explanation:	Reduced Consulting Services related to managed service services that are no longer needed					
2023 Total	2,682	7,685	0	10,367	22.3	
2024	0	-352	0	-352	0.0	1-Sided Adj
Explanation:	Reduced Consulting Services related to managed service services that are no longer needed					
2024	420	0	0	420	3.5	1-Sided Adj
Explanation:	Adding 1 additional internal Employee (on top of 2023) to support growing IT initiatives at 70% O&M					
2024	2,874	8,142	0	11,016	23.9	1-Sided Adj
Explanation:	Adding CIS replacement Ongoing costs (internal employees, contract labor, and ongoing SW Maintenance) on top of amount included in Base Year					
2024	-348	-485	0	-833	-2.9	1-Sided Adj
Explanation:	Benefit 502.1: Retire CISCO; CIS Replacement Benefit reduction related to not requiring support for legacy CISCO system					
2024	-39	-37	0	-76	-0.3	1-Sided Adj
Explanation:	Benefit 504.1: Retire MyAccount; CIS Replacement Benefit reduction related to not requiring support for legacy CISCO system					
2024	-36	-85	0	-121	-0.3	1-Sided Adj
Explanation:	Benefit 506.1: Retire SEAD; CIS Replacement Benefit reduction related to not requiring support for legacy CISCO system					
2024	0	-70	0	-70	0.0	1-Sided Adj

Note: Totals may include rounding differences.

SDG&E/INFORMATION TECHNOLOGY/Exh No:SDG&E-25-WP/Witness: T. Ballard

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Workpaper: 1IT002.000 - Non-shared Operational Applications

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>
Explanation:	Benefit New 6: Retire Proquire; Envision Benefit reduction related to no longer needing Proquire Maintenance					
2024	0	-280	0	-280	0.0	1-Sided Adj
Explanation:	Benefit New 7: Retire Red Clay; Envision Benefit reduction related to no longer needing monthly legacy support from Red Clay					
2024 Total	2,871	6,833	0	9,704	23.9	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Category-Sub: 1. Applications
Workpaper: 1IT002.000 - Non-shared Operational Applications

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	3,425	3,513	3,012	2,331	1,821
Non-Labor	6,194	6,482	8,057	4,852	6,790
NSE	0	0	0	0	0
Total	9,619	9,995	11,069	7,183	8,611
FTE	29.4	29.0	25.7	19.0	14.1
Adjustments (Nominal \$) **					
Labor	56	-21	11	2	714
Non-Labor	6	17	19	2,979	972
NSE	0	0	0	0	0
Total	61	-4	29	2,981	1,686
FTE	0.4	-1.1	0.1	0.1	4.8
Recorded-Adjusted (Nominal \$)					
Labor	3,481	3,492	3,022	2,333	2,535
Non-Labor	6,200	6,499	8,076	7,832	7,762
NSE	0	0	0	0	0
Total	9,680	9,991	11,098	10,165	10,297
FTE	29.8	27.9	25.8	19.1	18.8
Vacation & Sick (Nominal \$)					
Labor	517	529	433	331	381
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	517	529	433	331	381
FTE	5.0	4.8	4.1	3.1	3.2
Escalation to 2021\$					
Labor	464	346	201	85	0
Non-Labor	848	655	607	608	0
NSE	0	0	0	0	0
Total	1,312	1,001	808	693	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2021\$)					
Labor	4,462	4,367	3,656	2,749	2,916
Non-Labor	7,048	7,153	8,682	8,439	7,762
NSE	0	0	0	0	0
Total	11,509	11,521	12,339	11,188	10,678
FTE	34.8	32.7	29.9	22.2	22.0

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Category-Sub: 1. Applications
Workpaper: 1IT002.000 - Non-shared Operational Applications

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2017	2018	2019	2020	2021
Labor	56	-21	11	2	714
Non-Labor	6	17	19	2,979	972
NSE	0	0	0	0	0
Total	61	-4	29	2,981	1,686
FTE	0.4	-1.1	0.1	0.1	4.8

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adj Type
2017	56	6	0	0.4	CCTR Transf From 2100-3992.000
Explanation:	Transfer labor, non-labor and FTE associated with CIS Team from cost center 2100-3992 in work paper group 100006 Cust Ops Support & Projects to cost center 2100-3084 in workpaper group 1IT002 to align costs where activity/function resides.				
2017 Total	56	6	0	0.4	
2018	0	-7	0	-0.9	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2018	-21	24	0	-0.2	CCTR Transf From 2100-3992.000
Explanation:	Transfer labor, non-labor and FTE associated with CIS Team from cost center 2100-3992 in work paper group 100006 Cust Ops Support & Projects to cost center 2100-3084 in workpaper group 1IT002 to align costs where activity/function resides.				
2018 Total	-21	17	0	-1.1	
2019	11	19	0	0.1	CCTR Transf From 2100-3992.000
Explanation:	Transfer labor, non-labor and FTE associated with CIS Team from cost center 2100-3992 in work paper group 100006 Cust Ops Support & Projects to cost center 2100-3084 in workpaper group 1IT002 to align costs where activity/function resides.				
2019 Total	11	19	0	0.1	
2020	0	-3	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	0	-9	0	0.0	1-Sided Adj

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Category-Sub: 1. Applications
Workpaper: 1IT002.000 - Non-shared Operational Applications

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	0	-4	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	0	0	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	2	12	0	0.1	CCTR Transf From 2100-3992.000
Explanation:	Transfer labor, non-labor and FTE associated with CIS Team from cost center 2100-3992 in work paper group 100006 Cust Ops Support & Projects to cost center 2100-3084 in workpaper group 1IT002 to align costs where activity/function resides.				
2020	0	-13	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2020	0	3,000	0	0.0	1-Sided Adj
Explanation:	Historical Adjustment for one-time credit related to ADM O&M for new agreement				
2020 Total	2	2,979	0	0.1	
2021	0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	0	0	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	0	-6	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	0	-3	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	0	-1	0	0.0	1-Sided Adj

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Workpaper: 11T002.000 - Non-shared Operational Applications

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	0	0	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	714	1,161	0	4.8	CCTR Transf From 2100-3992.000
Explanation:	Transfer labor, non-labor and FTE associated with CIS Team from cost center 2100-3992 in work paper group 100006 Customer Operations Compliance & Strategy to cost center 2100-3084 in workpaper group 11T002 to align costs where activity/function resides.				
2021	0	-177	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2021 Total	714	972	0	4.8	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Workpaper: 11T002.000 - Non-shared Operational Applications

RAMP Item # 1

RAMP Activity

RAMP Chapter: SDG&E-CFF-4 Foundational Technology Systems

RAMP Line Item ID: CFF 1 - CFF 9

RAMP Line Item Name: All Mitigations

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost (2021 \$)	2022 Forecast (2021 \$)	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
					Low	High
Tranche 1 Cost Estimate	2,579	2,581	2,606	2,619	18,890	24,138

Cost Estimate Changes from RAMP:

Notable change in forecast estimate from RAMP: Modeling all five RAMP mitigations (1 - 9) in eight workpapers; The RAMP range is the sum of ranges for all nine mitigations; The forecast reflects pre-allocation values while RAMP ranges reflect post-allocation values between SoCalGas and SDG&E.

GRC Work Unit/Activity Level Estimates

Unit of Measure	2021 Historical Embedded Activities	2022 Forecast Activities	2023 Forecast Activities	2024 Forecast Activities	2024 RAMP Range Activities	
					Low	High
Tranche 1 FTE & no-single unit	22.00	42.10	44.30	45.90	0.00	0.00

Work Unit Changes from RAMP:

Units were not defined during RAMP filing. Labor can be identified with FTE units, and for non-labor there is no single unit defined. Numerical units in the boxes represent FTEs identified.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	0.000	0.000

RSE Changes from RAMP:

Not Applicable

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: B. Infrastructure
Workpaper: 1IT004.000

Summary for Category: B. Infrastructure

	In 2021\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2021	2022	2023	2024
Labor	0	0	0	0
Non-Labor	9,130	6,623	7,034	6,731
NSE	0	0	0	0
Total	9,130	6,623	7,034	6,731
FTE	0.0	0.0	0.0	0.0

Workpapers belonging to this Category:

1IT004.000 Non-shared Operational Infrastructure

Labor	0	0	0	0
Non-Labor	9,130	6,623	7,034	6,731
NSE	0	0	0	0
Total	9,130	6,623	7,034	6,731
FTE	0.0	0.0	0.0	0.0

Note: Totals may include rounding differences.

Beginning of Workpaper
1IT004.000 - Non-shared Operational Infrastructure

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Workpaper: 1IT004.000 - Non-shared Operational Infrastructure

Activity Description:

This activity includes non-shared Information Technology (IT) infrastructure costs that represent non-labor for technology systems where 100% of the activities directly support the objectives of operating and maintaining SDG&E infrastructure systems safely and reliably. The types of functions in this area include IT operations outsourced services and hardware and/or software maintenance agreements supporting non-shared SDG&E infrastructure.

Forecast Explanations:

Labor - Base YR Rec

N/A

Non-Labor - Base YR Rec

Historical costs, such as contractor services and cost of software and/or hardware, have fluctuated as a result of shifting cost drivers in the IT department. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2017	2018	2019	2020	2021	2022	2023	2024	
Labor		1,688	342	0	0	0	0	0	0	
Non-Labor		7,073	5,436	8,624	8,205	9,130	6,623	7,034	6,731	
NSE		0	0	0	0	0	0	0	0	
Total		8,761	5,778	8,624	8,205	9,130	6,623	7,034	6,731	
FTE		14.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Workpaper: 1IT004.000 - Non-shared Operational Infrastructure

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			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	9,130	9,130	9,130	-2,507	-2,096	-2,399	6,623	7,034	6,731
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		9,130	9,130	9,130	-2,507	-2,096	-2,399	6,623	7,034	6,731
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:

Year	Labor	NLbr	NSE	Total	FTE	Adj Type
2022	0	-1,883	0	-1,883	0.0	1-Sided Adj
Explanation:	Benefit 512.1: CIS Replacement Benefit related to elimination of Mainframe costs.					
2022	0	932	0	932	0.0	1-Sided Adj
Explanation:	Increases to HCL Contract [SDGE portion only] for renegotiated contract mid-2022 expected increase, amortization of ServiceNow costs, and expanded SAP environment.					
2022	0	-1,556	0	-1,556	0.0	1-Sided Adj
Explanation:	Reduction to account for unbundled maintenance that occurred in 2021. Any future maintenance is included in the Capital chapter of GRC.					
2022 Total	0	-2,507	0	-2,507	0.0	
2023	0	-1,883	0	-1,883	0.0	1-Sided Adj
Explanation:	Benefit 512.1: CIS Replacement Benefit related to elimination of Mainframe costs.					
2023	0	1,343	0	1,343	0.0	1-Sided Adj
Explanation:	Increases to HCL Contract [SDGE portion only] for renegotiated contract mid-2022 expected increase, amortization of ServiceNow costs, and expanded SAP environment.					
2023	0	-1,556	0	-1,556	0.0	1-Sided Adj
Explanation:	Reduction to account for unbundled maintenance that occurred in 2021. Any future maintenance is included in the Capital chapter of GRC.					
2023 Total	0	-2,096	0	-2,096	0.0	
2024	0	-1,883	0	-1,883	0.0	1-Sided Adj
Explanation:	Benefit 512.1: CIS Replacement Benefit related to elimination of Mainframe costs.					
2024	0	1,040	0	1,040	0.0	1-Sided Adj
Explanation:	Increases to HCL Contract [SDGE portion only] for renegotiated contract mid-2022 expected increase, amortization of ServiceNow costs, and expanded SAP environment.					
2024	0	-1,556	0	-1,556	0.0	1-Sided Adj
Explanation:	Reduction to account for unbundled maintenance that occurred in 2021. Any future maintenance is included in the Capital chapter of GRC.					

Note: Totals may include rounding differences.

SDG&E/INFORMATION TECHNOLOGY/Exh No:SDG&E-25-WP/Witness: T. Ballard

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Workpaper: 1IT004.000 - Non-shared Operational Infrastructure

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>
2024 Total	0	-2,399	0	-2,399	0.0	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Workpaper: 1IT004.000 - Non-shared Operational Infrastructure

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	1,317	274	0	0	0
Non-Labor	6,222	4,938	8,021	7,614	9,266
NSE	0	0	0	0	0
Total	7,539	5,212	8,021	7,614	9,266
FTE	12.1	2.2	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	-137
NSE	0	0	0	0	0
Total	0	0	0	0	-137
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	1,317	274	0	0	0
Non-Labor	6,222	4,938	8,021	7,614	9,130
NSE	0	0	0	0	0
Total	7,539	5,212	8,021	7,614	9,130
FTE	12.2	2.2	0.0	0.0	0.0
Vacation & Sick (Nominal \$)					
Labor	195	41	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	195	41	0	0	0
FTE	2.0	0.4	0.0	0.0	0.0
Escalation to 2021\$					
Labor	176	27	0	0	0
Non-Labor	851	498	603	591	0
NSE	0	0	0	0	0
Total	1,027	525	603	591	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2021\$)					
Labor	1,688	342	0	0	0
Non-Labor	7,073	5,436	8,624	8,205	9,130
NSE	0	0	0	0	0
Total	8,761	5,778	8,624	8,205	9,130
FTE	14.2	2.6	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

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Workpaper: 1IT004.000 - Non-shared Operational Infrastructure

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	-137	
NSE	0	0	0	0	0	
Total	0	0	0	0	-137	
FTE	0.0	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>	<u>Adj Type</u>
2017 Total	0	0	0	0.0	
2018 Total	0	0	0	0.0	
2019 Total	0	0	0	0.0	
2020 Total	0	0	0	0.0	
2021	0	-137	0	0.0	1-Sided Adj
2021 Total	0	-137	0	0.0	

Explanation: One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Workpaper: 11T004.000 - Non-shared Operational Infrastructure

RAMP Item # 1

RAMP Activity

RAMP Chapter: SDG&E-CFF-4 Foundational Technology Systems

RAMP Line Item ID: CFF 1 - CFF 9

RAMP Line Item Name: All Mitigations

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost (2021 \$)	2022 Forecast (2021 \$)	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
					Low	High
Tranche 1 Cost Estimate	3,195	2,472	2,615	2,509	18,890	24,138

Cost Estimate Changes from RAMP:

Notable change in forecast estimate from RAMP: Modeling all five RAMP mitigations (1 - 9) in eight workpapers; The RAMP range is the sum of ranges for all nine mitigations; The forecast reflects pre-allocation values while RAMP ranges reflect post-allocation values between SoCalGas and SDG&E.

GRC Work Unit/Activity Level Estimates

Unit of Measure	2021 Historical Embedded Activities	2022 Forecast Activities	2023 Forecast Activities	2024 Forecast Activities	2024 RAMP Range Activities	
					Low	High
Tranche 1 FTE & no-single unit	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

Units were not defined during RAMP filing. Labor can be identified with FTE units, and for non-labor there is no single unit defined. Numerical units in the boxes represent FTEs identified.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	0.000	0.000

RSE Changes from RAMP:

Not Applicable

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard

Summary of Shared Services Workpapers:

Description	In 2021 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2021	2022	2023	2024
A. Applications	31,946	32,071	34,069	34,587
B. Infrastructure	35,845	33,447	34,622	37,634
C. Support	10,396	10,468	10,916	11,084
Total	78,187	75,986	79,607	83,305

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Cost Center: VARIOUS

Summary for Category: A. Applications

	In 2021\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2021	2022	2023	2024
Labor	12,264	12,516	12,768	13,104
Non-Labor	19,681	19,554	21,300	21,482
NSE	0	0	0	0
Total	31,945	32,070	34,068	34,586
FTE	92.5	94.6	96.7	99.5

Cost Centers belonging to this Category:

2100-3071.000 Shared Applications

Labor	4,948	5,032	5,116	5,284
Non-Labor	11,417	12,327	13,817	13,957
NSE	0	0	0	0
Total	16,365	17,359	18,933	19,241
FTE	38.2	38.9	39.6	41.0

2100-3073.000 Shared Operational Applications

Labor	7,316	7,484	7,652	7,820
Non-Labor	8,264	7,227	7,483	7,525
NSE	0	0	0	0
Total	15,580	14,711	15,135	15,345
FTE	54.3	55.7	57.1	58.5

Note: Totals may include rounding differences.

Beginning of Workpaper
2100-3071.000 - Shared Applications

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2100-3071.000 - Shared Applications

Activity Description:

The shared SDG&E IT applications costs represent labor and non-labor for technology systems where costs are shared between multiple business units and support all other company-specific activities. The types of activities supported in this area include enterprise services (human resources, benefits, time keeping, compensation, payroll), supply chain, financial, business intelligence, analytics and reporting, and software maintenance agreements.

Units were not previously defined. Labor can be identified with FTE units, and for non-labor there is no single unit defined. Numerical units below represent FTEs identified.

2021 = 38.2
 2022 = 38.9
 2023 = 39.6
 2024 = 41.0

Forecast Explanations:

Labor - Base YR Rec

Historical costs have fluctuated between various workgroups as a result of either internal organizational changes, transfers of responsibilities, or shifting of cost drivers from one area of the IT department to another. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

Non-Labor - Base YR Rec

Historical costs, such as contractor services and cost of software and/or hardware, have fluctuated as a result of shifting cost drivers in the IT department. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2017	2018	2019	2020	2021	2022	2023	2024	
Labor		5,306	6,187	5,588	5,553	4,948	5,032	5,116	5,284	
Non-Labor		7,842	8,689	11,907	11,216	11,417	12,328	13,818	13,958	
NSE		0	0	0	0	0	0	0	0	
Total		13,148	14,876	17,495	16,769	16,365	17,360	18,934	19,242	
FTE		42.0	48.4	43.3	42.4	38.2	38.9	39.6	41.0	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2100-3071.000 - Shared Applications

Cost Center Allocations (Incurred Costs):

	2021 Adjusted-Recorded					2022 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	12	1,719	0	1,731	0.0	12	1,719	0	1,731	0.0
Directly Allocated	0	4	0	4	0.0	0	4	0	4	0.0
Subj. To % Alloc.	4,936	9,695	0	14,631	38.2	5,020	10,605	0	15,625	38.9
Total Incurred	4,948	11,418	0	16,366	38.2	5,032	12,328	0	17,360	38.9
% Allocation										
Retained	38.30%	38.30%				38.52%	38.52%			
SEU	58.65%	58.65%				58.40%	58.40%			
CORP	0.92%	0.92%				1.04%	1.04%			
Unreg	2.13%	2.13%				2.04%	2.04%			

	2023 Adjusted-Forecast					2024 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	12	1,719	0	1,731	0.0	12	1,719	0	1,731	0.0
Directly Allocated	0	4	0	4	0.0	0	4	0	4	0.0
Subj. To % Alloc.	5,104	12,095	0	17,199	39.6	5,272	12,235	0	17,507	41.0
Total Incurred	5,116	13,818	0	18,934	39.6	5,284	13,958	0	19,242	41.0
% Allocation										
Retained	38.47%	38.47%				38.44%	38.44%			
SEU	58.44%	58.44%				58.47%	58.47%			
CORP	1.04%	1.04%				1.03%	1.03%			
Unreg	2.05%	2.05%				2.06%	2.06%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2022

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2023

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2024

Allocations are based on a weighted average of all cost centers within the workpaper.

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2100-3071.000 - Shared Applications

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	4,948	4,948	4,948	84	168	336	5,032	5,116	5,284
Non-Labor	Base YR Rec	11,417	11,417	11,417	910	2,400	2,540	12,327	13,817	13,957
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		16,365	16,365	16,365	994	2,568	2,876	17,359	18,933	19,241
FTE	Base YR Rec	38.2	38.2	38.2	0.7	1.4	2.8	38.9	39.6	41.0

Forecast Adjustment Details:

Year	Labor	NLbr	NSE	Total	FTE	Adj Type
2022	84	0	0	84	0.7	1-Sided Adj
Explanation:	Adding 1 internal Employee to support growing IT initiatives at 70% O&M					
2022	0	-167	0	-167	0.0	1-Sided Adj
Explanation:	To account for prepaid IaaS in 2021 and is forecasted in Capital chapter in 2022 onward.					
2022	0	631	0	631	0.0	1-Sided Adj
Explanation:	Increased ADP contract charges for MyInfo Suite Products and Enhancements					
2022	0	446	0	446	0.0	1-Sided Adj
Explanation:	Increased Cloud Consumption costs (platform as a service and infrastructure as a service) for cloud space and Cloud Platform Operations					
2022 Total	84	910	0	994	0.7	
2023	168	0	0	168	1.4	1-Sided Adj
Explanation:	Adding 1 additional internal Employee (on top of 2022) to support growing IT initiatives at 70% O&M					
2023	0	454	0	454	0.0	1-Sided Adj
Explanation:	Increased costs related to SAP Analytics Cloud					
2023	0	1,002	0	1,002	0.0	1-Sided Adj
Explanation:	Increased ADP contract charges for MyInfo Suite Products and Enhancements					
2023	0	1,111	0	1,111	0.0	1-Sided Adj
Explanation:	Increased Cloud Consumption costs (platform as a service and infrastructure as a service) for cloud space and Cloud Platform Operations					
2023	0	-167	0	-167	0.0	1-Sided Adj
Explanation:	To account for prepaid IaaS in 2021 and is forecasted in Capital chapter in 2022 onward.					
2023 Total	168	2,400	0	2,568	1.4	
2024	336	0	0	336	2.8	1-Sided Adj
Explanation:	Adding 2 additional internal Employees (on top of 2023) to support growing IT initiatives at 70% O&M					
2024	0	454	0	454	0.0	1-Sided Adj

Note: Totals may include rounding differences.

SDG&E/INFORMATION TECHNOLOGY/Exh No:SDG&E-25-WP/Witness: T. Ballard

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2100-3071.000 - Shared Applications

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>
Explanation:	Increased costs related to SAP Analytics Cloud					
2024	0	1,002	0	1,002	0.0	1-Sided Adj
Explanation:	Increased ADP contract charges for MyInfo Suite Products and Enhancements					
2024	0	-167	0	-167	0.0	1-Sided Adj
Explanation:	To account for prepaid IaaS in 2021 and is forecasted in Capital chapter in 2022 onward.					
2024	0	1,251	0	1,251	0.0	1-Sided Adj
Explanation:	Increased Cloud Consumption costs (platform as a service and infrastructure as a service) for cloud space and Cloud Platform Operations					
2024 Total	336	2,540	0	2,876	2.8	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2100-3071.000 - Shared Applications

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	2,760	2,886	1,928	2,218	4,310
Non-Labor	1,859	2,386	1,825	2,279	11,874
NSE	0	0	0	0	0
Total	4,619	5,272	3,753	4,498	16,184
FTE	24.1	23.9	14.9	16.2	32.7
Adjustments (Nominal \$) **					
Labor	1,432	2,087	2,703	2,451	-8
Non-Labor	5,255	5,656	9,454	8,489	-456
NSE	0	0	0	0	0
Total	6,687	7,743	12,157	10,940	-464
FTE	11.9	17.4	22.4	20.3	-0.1
Recorded-Adjusted (Nominal \$)					
Labor	4,192	4,973	4,631	4,669	4,302
Non-Labor	7,114	8,043	11,279	10,769	11,417
NSE	0	0	0	0	0
Total	11,306	13,016	15,910	15,438	15,719
FTE	36.0	41.4	37.3	36.5	32.6
Vacation & Sick (Nominal \$)					
Labor	622	753	663	662	646
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	622	753	663	662	646
FTE	6.0	7.0	6.0	5.9	5.6
Escalation to 2021\$					
Labor	492	460	295	222	0
Non-Labor	728	646	627	448	0
NSE	0	0	0	0	0
Total	1,220	1,107	922	669	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2021\$)					
Labor	5,306	6,187	5,588	5,553	4,948
Non-Labor	7,842	8,689	11,907	11,216	11,417
NSE	0	0	0	0	0
Total	13,148	14,876	17,495	16,769	16,365
FTE	42.0	48.4	43.3	42.4	38.2

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2100-3071.000 - Shared Applications

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2017	2018	2019	2020	2021
Labor	1,432	2,087	2,703	2,451	-8
Non-Labor	5,255	5,656	9,454	8,489	-456
NSE	0	0	0	0	0
Total	6,687	7,743	12,157	10,940	-464
FTE	11.9	17.4	22.4	20.3	-0.1

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adj Type
2017	0	-136	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2017	1,432	5,391	0	11.9	1-Sided Adj
Explanation:	Historical Adjustment for MyInfo team previously at Corporate				
2017 Total	1,432	5,255	0	11.9	
2018	-47	-136	0	-0.4	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2018	32	0	0	0.3	1-Sided Adj
Explanation:	Historical Adjustment for VMO team temporarily at Corporate				
2018	2,102	5,792	0	17.5	1-Sided Adj
Explanation:	Historical Adjustment for MyInfo team previously at Corporate				
2018 Total	2,087	5,656	0	17.4	
2019	0	-105	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2019	2,703	9,559	0	22.4	1-Sided Adj
Explanation:	Historical Adjustment for MyInfo team previously at Corporate				
2019 Total	2,703	9,454	0	22.4	
2020	0	-12	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	-5	-124	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2100-3071.000 - Shared Applications

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>
2020	2,456	8,625	0	20.4	1-Sided Adj
Explanation:	Historical Adjustment for MyInfo team previously at Corporate				
2020 Total	2,451	8,489	0	20.3	
2021	0	-123	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	0	-12	0	0.0	CCTR Transf To 2100-0364.001
Explanation:	Transfer spot cash awards to AGCP team				
2021	-8	-321	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2021 Total	-8	-456	0	-0.1	

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper 2100-3071.000

2021												
Workpaper	Cost Center	2021 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology	
2100-3071.000	2100-3071	\$ 1,092,369	43%	53%	4%	0%	473,979	578,191	40,199	-	Weighted ratio of SAP and Misc Application support	
	2100-3072	\$ 696,465	43%	53%	4%	0%	300,107	370,519	25,839	-	LAN ID w/o unreg	
	2100-3089	\$ 1,680,279	43%	53%	4%	0%	724,032	893,909	62,338	-	Weighted Average of cost centers under Director	
	2100-3885	\$ 87,435	22%	78%	0%	0%	19,341	68,094	-	-	Call center volume	
	2100-3926	\$ 1,679,963	50%	49%	1%	0%	843,677	824,862	11,424	-	P/Y Dept. Activity Study	
	2100-4085	\$ 294,892	43%	53%	4%	0%	127,069	156,883	10,940	-	LAN ID w/o unreg	
	2100-4134	\$ 10,833,986	35%	61%	0%	3%	3,828,731	6,656,401	16,251	332,603	My Info User Accounts	
Grand Total		\$ 16,365,388					6,316,935	9,548,858	166,992	332,603		

38.60% 58.35% 1.02% 2.03% 2021 Weighted Average of 2100-3071.000

2022												
Workpaper	Cost Center	2022 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology	
2100-3071.000	2100-3071	\$ 1,092,369	43%	53%	4%	0%	473,979	578,191	40,199	-	Weighted ratio of SAP and Misc Application support	
	2100-3072	\$ 696,465	43%	53%	4%	0%	300,107	370,519	25,839	-	LAN ID w/o unreg	
	2100-3089	\$ 1,982,394	43%	53%	4%	0%	854,214	1,054,634	73,547	-	Weighted Average of cost centers under Director	
	2100-3885	\$ 87,435	22%	78%	0%	0%	19,341	68,094	-	-	Call center volume	
	2100-3926	\$ 1,679,963	50%	49%	1%	0%	843,677	824,862	11,424	-	P/Y Dept. Activity Study	
	2100-4085	\$ 294,892	43%	53%	4%	0%	127,069	156,883	10,940	-	LAN ID w/o unreg	
	2100-4134	\$ 11,548,544	35%	61%	0%	3%	4,081,255	7,095,425	17,323	354,540	My Info User Accounts	
Grand Total		\$ 17,382,061					6,699,641	10,148,608	179,272	354,540		

38.54% 58.39% 1.03% 2.04% 2022 Weighted Average of 2100-3071.000

2023												
Workpaper	Cost Center	2023 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology	
2100-3071.000	2100-3071	\$ 1,092,369	43%	53%	4%	0%	473,979	578,191	40,199	-	Weighted ratio of SAP and Misc Application support	
	2100-3072	\$ 696,465	43%	53%	4%	0%	300,107	370,519	25,839	-	LAN ID w/o unreg	
	2100-3089	\$ 2,583,673	43%	53%	4%	0%	1,113,305	1,374,514	95,854	-	Weighted Average of cost centers under Director	
	2100-3885	\$ 87,435	22%	78%	0%	0%	19,341	68,094	-	-	Call center volume	
	2100-3926	\$ 2,191,151	50%	49%	1%	0%	1,100,396	1,075,855	14,900	-	P/Y Dept. Activity Study	
	2100-4085	\$ 294,892	43%	53%	4%	0%	127,069	156,883	10,940	-	LAN ID w/o unreg	
	2100-4134	\$ 12,003,623	35%	61%	0%	3%	4,242,080	7,375,026	18,005	368,511	My Info User Accounts	
Grand Total		\$ 18,949,607					7,376,276	10,999,082	205,738	368,511		

38.93% 58.04% 1.09% 1.94% 2023 Weighted Average of 2100-3071.000

2024												
Workpaper	Cost Center	2024 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology	
2100-3071.000	2100-3071	\$ 1,092,369	43%	53%	4%	0%	473,979	578,191	40,199	-	Weighted ratio of SAP and Misc Application support	
	2100-3072	\$ 696,465	43%	53%	4%	0%	300,107	370,519	25,839	-	LAN ID w/o unreg	
	2100-3089	\$ 2,723,673	43%	53%	4%	0%	1,173,631	1,448,994	101,048	-	Weighted Average of cost centers under Director	
	2100-3885	\$ 87,435	22%	78%	0%	0%	19,341	68,094	-	-	Call center volume	
	2100-3926	\$ 2,191,151	50%	49%	1%	0%	1,100,396	1,075,855	14,900	-	P/Y Dept. Activity Study	
	2100-4085	\$ 294,892	43%	53%	4%	0%	127,069	156,883	10,940	-	LAN ID w/o unreg	
	2100-4134	\$ 12,171,623	35%	61%	0%	3%	4,301,451	7,478,245	18,257	373,669	My Info User Accounts	
Grand Total		\$ 19,257,607					7,495,973	11,176,781	211,184	373,669		

38.92% 58.04% 1.10% 1.94% 2024 Weighted Average of 2100-3071.000

Note: Totals may include rounding differences.

Beginning of Workpaper
2100-3073.000 - Shared Operational Applications

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2100-3073.000 - Shared Operational Applications

Activity Description:

The shared SDG&E IT applications costs represent labor and non-labor for technology systems where costs are shared between multiple business units and support the objectives of operating and maintaining the company infrastructure systems safely and reliably. The types of systems supported in this area include utility operations, work management, business intelligence, analytics and reporting, and emergency operations. The types of functions supported in this area include systems engineering, systems architecture and integration, portfolio management services, applications outsourced services, and software maintenance agreements.

Forecast Explanations:

Labor - Base YR Rec

Historical costs have fluctuated between various workgroups as a result of either internal organizational changes, transfers of responsibilities, or shifting of cost drivers from one area of the IT department to another. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

Non-Labor - Base YR Rec

Historical costs, such as contractor services and cost of software and/or hardware, have fluctuated as a result of shifting cost drivers in the IT department. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2017	2018	2019	2020	2021	2022	2023	2024	
Labor		5,025	5,700	6,685	7,131	7,316	7,484	7,652	7,820	
Non-Labor		7,088	5,919	8,662	9,500	8,264	7,227	7,483	7,525	
NSE		0	0	0	0	0	0	0	0	
Total		12,112	11,619	15,348	16,631	15,580	14,711	15,135	15,345	
FTE		37.0	42.7	51.8	55.0	54.3	55.7	57.1	58.5	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2100-3073.000 - Shared Operational Applications

Cost Center Allocations (Incurred Costs):

	2021 Adjusted-Recorded					2022 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	33	0	33	0.0	0	33	0	33	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	7,316	8,231	0	15,547	54.5	7,484	7,194	0	14,678	55.9
Total Incurred	7,316	8,264	0	15,580	54.3	7,484	7,227	0	14,711	55.7
% Allocation										
Retained	51.94%	51.94%				50.60%	50.60%			
SEU	46.31%	46.31%				47.46%	47.46%			
CORP	1.75%	1.75%				1.94%	1.94%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2023 Adjusted-Forecast					2024 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	33	0	33	0.0	0	33	0	33	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	7,652	7,450	0	15,102	57.3	7,820	7,492	0	15,312	58.7
Total Incurred	7,652	7,483	0	15,135	57.1	7,820	7,525	0	15,345	58.5
% Allocation										
Retained	49.84%	49.84%				49.77%	49.77%			
SEU	48.33%	48.33%				48.38%	48.38%			
CORP	1.83%	1.83%				1.85%	1.85%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2022

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2023

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2024

Allocations are based on a weighted average of all cost centers within the workpaper.

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2100-3073.000 - Shared Operational Applications

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	7,316	7,316	7,316	168	336	504	7,484	7,652	7,820
Non-Labor	Base YR Rec	8,264	8,264	8,264	-1,037	-781	-739	7,227	7,483	7,525
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		15,580	15,580	15,580	-869	-445	-235	14,711	15,135	15,345
FTE	Base YR Rec	54.3	54.3	54.3	1.4	2.8	4.2	55.7	57.1	58.5

Forecast Adjustment Details:

Year	Labor	NLbr	NSE	Total	FTE	Adj Type
2022	168	0	0	168	1.4	1-Sided Adj
Explanation:	Adding 2 internal Employees to support growing IT initiatives at 70% O&M					
2022	0	806	0	806	0.0	1-Sided Adj
Explanation:	Increased Purchased Services for Data Governance support, Open text systems, and PowerBI Platform support.					
2022	0	-1,843	0	-1,843	0.0	1-Sided Adj
Explanation:	Decreased Software Maintenance in 2022 for ESRI GIS System and Street Level Routing system maintenance					
2022 Total	168	-1,037	0	-869	1.4	
2023	336	0	0	336	2.8	1-Sided Adj
Explanation:	Adding 2 additional internal Employees (on top of 2022) to support growing IT initiatives at 70% O&M					
2023	0	812	0	812	0.0	1-Sided Adj
Explanation:	Increased Purchased Services for Data Governance support, Open text systems, and PowerBI Platform support.					
2023	0	-1,593	0	-1,593	0.0	1-Sided Adj
Explanation:	Decreased Software Maintenance in 2022 for ESRI GIS System and Street Level Routing system maintenance					
2023 Total	336	-781	0	-445	2.8	
2024	504	0	0	504	4.2	1-Sided Adj
Explanation:	Adding 2 additional internal Employees (on top of 2023) to support growing IT initiatives at 70% O&M					
2024	0	824	0	824	0.0	1-Sided Adj
Explanation:	Increased Purchased Services for Data Governance support, Open text systems, and PowerBI Platform support.					
2024	0	-1,563	0	-1,563	0.0	1-Sided Adj
Explanation:	Decreased Software Maintenance in 2022 for ESRI GIS System and Street Level Routing system maintenance					

Note: Totals may include rounding differences.

SDG&E/INFORMATION TECHNOLOGY/Exh No:SDG&E-25-WP/Witness: T. Ballard

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2100-3073.000 - Shared Operational Applications

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>
2024 Total	504	-739	0	-235	4.2	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2100-3073.000 - Shared Operational Applications

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	3,969	4,582	5,551	6,140	6,454
Non-Labor	6,441	5,584	8,224	9,709	8,320
NSE	0	0	0	0	0
Total	10,410	10,166	13,775	15,849	14,774
FTE	31.8	36.6	44.7	48.3	47.2
Adjustments (Nominal \$) **					
Labor	0	0	-11	-144	-93
Non-Labor	-11	-105	-18	-588	-56
NSE	0	0	0	0	0
Total	-11	-106	-30	-732	-149
FTE	0.0	-0.1	-0.1	-1.2	-0.7
Recorded-Adjusted (Nominal \$)					
Labor	3,969	4,582	5,540	5,996	6,361
Non-Labor	6,430	5,478	8,206	9,121	8,264
NSE	0	0	0	0	0
Total	10,399	10,060	13,746	15,117	14,625
FTE	31.7	36.5	44.6	47.2	46.5
Vacation & Sick (Nominal \$)					
Labor	589	694	793	850	955
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	589	694	793	850	955
FTE	5.3	6.2	7.2	7.8	7.8
Escalation to 2021\$					
Labor	466	424	352	285	0
Non-Labor	658	440	457	379	0
NSE	0	0	0	0	0
Total	1,124	864	809	664	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2021\$)					
Labor	5,025	5,700	6,685	7,131	7,316
Non-Labor	7,088	5,919	8,662	9,500	8,264
NSE	0	0	0	0	0
Total	12,112	11,619	15,348	16,631	15,580
FTE	37.0	42.7	51.8	55.0	54.3

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2100-3073.000 - Shared Operational Applications

Summary of Adjustments to Recorded:

		In Nominal \$ (000) Incurred Costs				
	Years	2017	2018	2019	2020	2021
Labor		0	-0.301	-11	-144	-93
Non-Labor		-11	-105	-18	-588	-56
NSE		0	0	0	0	0
	Total	-11	-106	-30	-732	-149
FTE		0.0	-0.1	-0.1	-1.2	-0.7

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adj Type
2017	0	-11	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2017 Total	0	-11	0	0.0	
2018	0	-105	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2018 Total	0	-105	0	-0.1	
2019	-11	-18	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2019 Total	-11	-18	0	-0.1	
2020	0	-514	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	-116	-50	0	-0.9	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2020	-29	-24	0	-0.3	CCTR Transf To 2100-4048.000
Explanation:	Transfer historical Noggin 2.0 costs from IT chapter to Emergency Planning & Preparedness chapter				
2020 Total	-144	-588	0	-1.2	
2021	0	-40	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	-36	0	0	-0.3	1-Sided Adj
Explanation:	Adjustment to remove non-GRC costs related to the SB1371 Emissions Strategy Program that are being recovered through a separate regulatory process.				

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2100-3073.000 - Shared Operational Applications

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>
2021	0	-15	0	0.0	CCTR Transf To 2100-0364.001
Explanation:	Transfer spot cash awards to AGCP team				
2021	-56	-1	0	-0.4	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2021 Total	-93	-56	0	-0.7	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2100-3073.000 - Shared Operational Applications

RAMP Item # 1

RAMP Activity

RAMP Chapter: SDG&E-CFF-4 Foundational Technology Systems

RAMP Line Item ID: CFF 1 - CFF 9

RAMP Line Item Name: All Mitigations

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost (2021 \$)	2022 Forecast (2021 \$)	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
					Low	High
Tranche 1 Cost Estimate	3,290	2,448	2,562	2,576	18,890	24,138

Cost Estimate Changes from RAMP:

Notable change in forecast estimate from RAMP: Modeling all five RAMP mitigations (1 - 9) in eight workpapers; The RAMP range is the sum of ranges for all nine mitigations; The forecast reflects pre-allocation values while RAMP ranges reflect post-allocation values between SoCalGas and SDG&E.

GRC Work Unit/Activity Level Estimates

Unit of Measure	2021 Historical Embedded Activities	2022 Forecast Activities	2023 Forecast Activities	2024 Forecast Activities	2024 RAMP Range Activities	
					Low	High
Tranche 1 FTE & no-single unit	54.30	55.70	57.10	58.50	0.00	0.00

Work Unit Changes from RAMP:

Units were not defined during RAMP filing. Labor can be identified with FTE units, and for non-labor there is no single unit defined. Numerical units in the boxes represent FTEs identified.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	0.000	0.000

RSE Changes from RAMP:

Not Applicable

Supplemental Workpapers for Workpaper 2100-3073.000

2021											
Workpaper	Cost Center	2021 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-3097.000	2100-3097	\$ 1,367,494	43%	53%	4%	0%	589,253	727,507	50,734	-	LAN ID w/o unreg
	2100-3684	\$ 1,861,202	43%	53%	4%	0%	801,992	990,159	69,051	-	LAN ID w/o unreg
	2100-4095	\$ 814,600	43%	53%	4%	0%	351,011	433,367	30,222	-	LAN ID w/o unreg
Grand Total		4,043,295					1,742,256	2,151,033	150,006	-	

43.09% 53.20% 3.71% 0.00% 2021 Weighted Average of 2100-3097.000

2022											
Workpaper	Cost Center	2022 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-3097.000	2100-3097	\$ 1,367,494	43%	53%	4%	0%	589,253	727,507	50,734	-	LAN ID w/o unreg
	2100-3684	\$ 1,700,202	43%	53%	4%	0%	732,617	904,507	63,077	-	LAN ID w/o unreg
	2100-4095	\$ 814,600	43%	53%	4%	0%	351,011	433,367	30,222	-	LAN ID w/o unreg
Grand Total		3,882,295					1,672,881	2,065,381	144,033	-	

43.09% 53.20% 3.71% 0.00% 2022 Weighted Average of 2100-3097.000

2023											
Workpaper	Cost Center	2023 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-3097.000	2100-3097	\$ 1,367,494	43%	53%	4%	0%	589,253	727,507	50,734	-	LAN ID w/o unreg
	2100-3684	\$ 1,700,202	43%	53%	4%	0%	732,617	904,507	63,077	-	LAN ID w/o unreg
	2100-4095	\$ 814,600	43%	53%	4%	0%	351,011	433,367	30,222	-	LAN ID w/o unreg
Grand Total		3,882,295					1,672,881	2,065,381	144,033	-	

43.09% 53.20% 3.71% 0.00% 2023 Weighted Average of 2100-3097.000

2024											
Workpaper	Cost Center	2024 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-3097.000	2100-3097	\$ 1,367,494	43%	53%	4%	0%	589,253	727,507	50,734	-	LAN ID w/o unreg
	2100-3684	\$ 1,700,202	43%	53%	4%	0%	732,617	904,507	63,077	-	LAN ID w/o unreg
	2100-4095	\$ 898,600	43%	53%	4%	0%	387,207	478,055	33,338	-	LAN ID w/o unreg
Grand Total		3,966,295					1,709,077	2,110,069	147,150	-	

43.09% 53.20% 3.71% 0.00% 2024 Weighted Average of 2100-3097.000

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: B. Infrastructure
Cost Center: VARIOUS

Summary for Category: B. Infrastructure

	In 2021\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2021	2022	2023	2024
Labor	7,192	7,276	7,360	7,612
Non-Labor	28,653	26,171	27,262	30,022
NSE	0	0	0	0
Total	35,845	33,447	34,622	37,634
FTE	52.8	53.5	54.2	56.3

Cost Centers belonging to this Category:

2100-0207.000 Shared Operational Infrastructure

Labor	5,364	5,448	5,532	5,700
Non-Labor	26,438	24,117	25,208	27,968
NSE	0	0	0	0
Total	31,802	29,565	30,740	33,668
FTE	39.0	39.7	40.4	41.8

2100-3097.000 Shared Infrastructure

Labor	1,828	1,828	1,828	1,912
Non-Labor	2,215	2,054	2,054	2,054
NSE	0	0	0	0
Total	4,043	3,882	3,882	3,966
FTE	13.8	13.8	13.8	14.5

Note: Totals may include rounding differences.

Beginning of Workpaper
2100-0207.000 - Shared Operational Infrastructure

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2100-0207.000 - Shared Operational Infrastructure

Activity Description:

This activity includes shared Information Technology (IT) infrastructure costs that represent labor and non-labor for technology systems where costs are shared between multiple business units and support the objectives of operating and maintaining the company infrastructure systems safely and reliably. The types of systems supported in this area include data center computing, cloud computing, storage, network, telecom, and operations technology. The types of functions supported in this area include network operations, field support services, portfolio management services, and hardware and/or software maintenance agreements.

Forecast Explanations:

Labor - Base YR Rec

Historical costs have fluctuated between various workgroups as a result of either internal organizational changes, transfers of responsibilities, or shifting of cost drivers from one area of the IT department to another. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

Non-Labor - Base YR Rec

Historical costs, such as contractor services and cost of software and/or hardware, have fluctuated as a result of shifting cost drivers in the IT department. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2017	2018	2019	2020	2021	2022	2023	2024	
Labor		8,919	9,110	5,757	5,514	5,364	5,447	5,531	5,699	
Non-Labor		23,954	26,370	22,615	25,716	26,438	24,116	25,207	27,967	
NSE		0	0	0	0	0	0	0	0	
Total		32,872	35,480	28,372	31,230	31,802	29,563	30,738	33,666	
FTE		70.0	72.2	44.5	37.9	39.0	39.7	40.4	41.8	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2100-0207.000 - Shared Operational Infrastructure

Cost Center Allocations (Incurred Costs):

	2021 Adjusted-Recorded					2022 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	38	31	0	69	0.2	38	31	0	69	0.2
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	5,325	26,406	0	31,731	38.8	5,409	24,085	0	29,494	39.5
Total Incurred	5,363	26,437	0	31,800	39.0	5,447	24,116	0	29,563	39.7
% Allocation										
Retained	46.47%	46.47%				46.87%	46.87%			
SEU	50.99%	50.99%				50.73%	50.73%			
CORP	2.54%	2.54%				2.40%	2.40%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2023 Adjusted-Forecast					2024 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	38	31	0	69	0.2	38	31	0	69	0.2
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	5,493	25,176	0	30,669	40.2	5,661	27,936	0	33,597	41.6
Total Incurred	5,531	25,207	0	30,738	40.4	5,699	27,967	0	33,666	41.8
% Allocation										
Retained	46.74%	46.74%				46.90%	46.90%			
SEU	50.83%	50.83%				50.75%	50.75%			
CORP	2.43%	2.43%				2.35%	2.35%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2022

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2023

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2024

Allocations are based on a weighted average of all cost centers within the workpaper.

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2100-0207.000 - Shared Operational Infrastructure

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	5,364	5,364	5,364	84	168	336	5,448	5,532	5,700
Non-Labor	Base YR Rec	26,438	26,438	26,438	-2,321	-1,230	1,530	24,117	25,208	27,968
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		31,802	31,802	31,802	-2,237	-1,062	1,866	29,565	30,740	33,668
FTE	Base YR Rec	39.0	39.0	39.0	0.7	1.4	2.8	39.7	40.4	41.8

Forecast Adjustment Details:

Year	Labor	NLbr	NSE	Total	FTE	Adj Type
2022	84	0	0	84	0.7	1-Sided Adj
Explanation:	Adding 1 internal Employee to support growing IT initiatives at 70% O&M					
2022	0	-674	0	-674	0.0	1-Sided Adj
Explanation:	Benefit 512.1: CIS Replacement Benefit related to elimination of Mainframe costs.					
2022	0	-364	0	-364	0.0	1-Sided Adj
Explanation:	Benefit New 5: Retire Oracle; CIS Replacement Benefit reduction related to not requiring annual Maintenance for Oracle software					
2022	0	359	0	359	0.0	1-Sided Adj
Explanation:	Increased Cloud Consumption costs (platform as a service and infrastructure as a service) for cloud space and Cloud Platform Operations					
2022	0	-2,631	0	-2,631	0.0	1-Sided Adj
Explanation:	Decreased Hardware and Software Maintenance in 2022 for various services and vendors across the infrastructure platform					
2022	0	290	0	290	0.0	1-Sided Adj
Explanation:	To account for unbundled maintenance that starts in 2021 and continues in forecast years. Higher due to amortization schedule					
2022	0	699	0	699	0.0	1-Sided Adj
Explanation:	Increased Telecom costs starting in 2022; includes funds for the secondary data center expansion					
2022 Total	84	-2,321	0	-2,237	0.7	
2023	168	0	0	168	1.4	1-Sided Adj
Explanation:	Adding 1 additional internal Employee (on top of 2022) to support growing IT initiatives at 70% O&M					
2023	0	-674	0	-674	0.0	1-Sided Adj
Explanation:	Benefit 512.1: CIS Replacement Benefit related to elimination of Mainframe costs.					
2023	0	35	0	35	0.0	1-Sided Adj
Explanation:	Added costs for Smart Meter 2.0 Telecom Data Plan costs starting in 2023					
2023	0	786	0	786	0.0	1-Sided Adj

Note: Totals may include rounding differences.

SDG&E/INFORMATION TECHNOLOGY/Exh No:SDG&E-25-WP/Witness: T. Ballard

San Diego Gas & Electric Company
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Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2100-0207.000 - Shared Operational Infrastructure

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>
Explanation:	Increased Cloud Consumption costs (platform as a service and infrastructure as a service) for cloud space and Cloud Platform Operations					
2023	0	-397	0	-397	0.0	1-Sided Adj
Explanation:	Benefit New 5: Retire Oracle; CIS Replacement Benefit reduction related to not requiring annual Maintenance for Oracle software					
2023	0	1,184	0	1,184	0.0	1-Sided Adj
Explanation:	Increased Telecom costs including funds for the secondary data center expansion					
2023	0	-2,453	0	-2,453	0.0	1-Sided Adj
Explanation:	Decreased Hardware and Software Maintenance in 2023 for various services and vendors across the infrastructure platform					
2023	0	289	0	289	0.0	1-Sided Adj
Explanation:	To account for unbundled maintenance that starts in 2021 and continues in forecast years. Higher due to amortization schedule					
2023 Total	168	-1,230	0	-1,062	1.4	
2024	0	-674	0	-674	0.0	1-Sided Adj
Explanation:	Benefit 512.1: CIS Replacement Benefit related to elimination of Mainframe costs.					
2024	336	0	0	336	2.8	1-Sided Adj
Explanation:	Adding 2 additional internal Employees (on top of 2023) to support growing IT initiatives at 70% O&M					
2024	0	2,176	0	2,176	0.0	1-Sided Adj
Explanation:	Added costs for Smart Meter 2.0 Telecom Data Plan costs starting in 2023 and continuing in years prior. The 2024 costs are normalized for post test year increases and described in supplemental workpaper					
2024	0	1,075	0	1,075	0.0	1-Sided Adj
Explanation:	Increased Cloud Consumption costs (platform as a service and infrastructure as a service) for cloud space and Cloud Platform Operations					
2024	0	-397	0	-397	0.0	1-Sided Adj
Explanation:	Benefit New 5: Retire Oracle; CIS Replacement Benefit reduction related to not requiring annual Maintenance for Oracle software					
2024	0	1,546	0	1,546	0.0	1-Sided Adj
Explanation:	Increased Telecom costs including funds for the secondary data center expansion					
2024	0	-2,447	0	-2,447	0.0	1-Sided Adj
Explanation:	Decreased Hardware and Software Maintenance in 2024 for various services and vendors across the infrastructure platform					
2024	0	251	0	251	0.0	1-Sided Adj
Explanation:	To account for unbundled maintenance that starts in 2021 and continues in forecast years. Higher due to amortization schedule					
2024 Total	336	1,530	0	1,866	2.8	

Note: Totals may include rounding differences.

SDG&E/INFORMATION TECHNOLOGY/Exh No:SDG&E-25-WP/Witness: T. Ballard

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2100-0207.000 - Shared Operational Infrastructure

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	7,087	7,313	4,771	4,640	4,663
Non-Labor	21,732	24,407	22,110	30,951	26,748
NSE	0	0	0	0	0
Total	28,818	31,720	26,881	35,591	31,411
FTE	60.1	61.8	38.4	32.8	33.3
Adjustments (Nominal \$) **					
Labor	-41	10	0	-4	0
Non-Labor	-1	1	-687	-6,262	-310
NSE	0	0	0	0	0
Total	-42	10	-687	-6,265	-310
FTE	-0.2	0.0	0.0	-0.2	0.0
Recorded-Adjusted (Nominal \$)					
Labor	7,046	7,323	4,771	4,636	4,663
Non-Labor	21,731	24,408	21,423	24,690	26,438
NSE	0	0	0	0	0
Total	28,776	31,731	26,194	29,326	31,101
FTE	60.0	61.8	38.3	32.6	33.3
Vacation & Sick (Nominal \$)					
Labor	1,046	1,109	683	657	700
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	1,046	1,109	683	657	700
FTE	10.0	10.4	6.2	5.3	5.7
Escalation to 2021\$					
Labor	828	678	303	220	0
Non-Labor	2,223	1,962	1,192	1,026	0
NSE	0	0	0	0	0
Total	3,051	2,640	1,495	1,246	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2021\$)					
Labor	8,919	9,110	5,757	5,514	5,364
Non-Labor	23,954	26,370	22,615	25,716	26,438
NSE	0	0	0	0	0
Total	32,872	35,480	28,372	31,230	31,802
FTE	70.0	72.2	44.5	37.9	39.0

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2100-0207.000 - Shared Operational Infrastructure

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2017	2018	2019	2020	2021
Labor	-41	10	0	-4	0
Non-Labor	-0.914	0.553	-687	-6,262	-310
NSE	0	0	0	0	0
Total	-42	10	-687	-6,265	-310
FTE	-0.2	0.0	0.0	-0.2	0.0

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adj Type
2017	-41	-1	0	-0.2	1-Sided Adj
Explanation:	Incremental costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2017 Total	-41	-1	0	-0.2	
2018	13	1	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	-4	0	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2018 Total	10	1	0	0.0	
2019	0	-907	0	0.0	1-Sided Adj
Explanation:	Historical Adjustment for one-time costs related to Organizational Change Mgmt				
2019	0	220	0	0.0	CCTR Transf From 2100-3172.000
Explanation:	Move Flexera maintenance to appropriate workpaper (2100-0207)				
2019 Total	0	-687	0	0.0	
2020	-1	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).				
2020	-2	-130	0	-0.1	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	0	-135	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2100-0207.000 - Shared Operational Infrastructure

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>
2020	0	-2,567	0	0.0	1-Sided Adj
Explanation:	Historical Adjustment for one-time costs related to Organizational Change Mgmt				
2020	0	-3,430	0	0.0	1-Sided Adj
Explanation:	Historical Adjustment for one-time costs related to program Armor				
2020 Total	-4	-6,262	0	-0.2	
2021	0	-174	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	0	-40	0	0.0	CCTR Transf To 2100-0364.001
Explanation:	Transfer spot cash awards to AGCP team				
2021	0	-95	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2021 Total	0	-310	0	0.0	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2100-0207.000 - Shared Operational Infrastructure

RAMP Item # 1

RAMP Activity

RAMP Chapter: SDG&E-CFF-4 Foundational Technology Systems

RAMP Line Item ID: CFF 1 - CFF 9

RAMP Line Item Name: All Mitigations

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost (2021 \$)	2022 Forecast (2021 \$)	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
					Low	High
Tranche 1 Cost Estimate	19,226	18,412	19,144	21,777	18,890	24,138

Cost Estimate Changes from RAMP:

Notable change in forecast estimate from RAMP: Modeling all five RAMP mitigations (1 - 9) in eight workpapers; The RAMP range is the sum of ranges for all nine mitigations; The forecast reflects pre-allocation values while RAMP ranges reflect post-allocation values between SoCalGas and SDG&E.

GRC Work Unit/Activity Level Estimates

Unit of Measure	2021 Historical Embedded Activities	2022 Forecast Activities	2023 Forecast Activities	2024 Forecast Activities	2024 RAMP Range Activities	
					Low	High
Tranche 1 FTE & no-single unit	39.00	39.70	40.40	41.80	0.00	0.00

Work Unit Changes from RAMP:

Units were not defined during RAMP filing. Labor can be identified with FTE units, and for non-labor there is no single unit defined. Numerical units in the boxes represent FTEs identified.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	0.000	0.000

RSE Changes from RAMP:

Not Applicable

Supplemental Workpapers for Workpaper 2100-0207.000

2021											
Workpaper	Cost Center	2021 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-0207.000	2100-0207	\$ 1,302,843	43%	53%	4%	0%	561,395	693,112	48,335	-	LAN ID w/o unreg
	2100-3091	\$ 319,893	43%	53%	4%	0%	137,842	170,183	11,868	-	LAN ID w/o unreg
	2100-3095	\$ 1,091,536	45%	53%	2%	0%	493,924	579,465	18,147	-	Weighted Average of cost centers under Director
	2100-3100	\$ 1,719,447	43%	53%	4%	0%	740,910	914,746	63,791	-	LAN ID w/o unreg
	2100-3106	\$ 9,481,615	50%	49%	1%	0%	4,777,786	4,630,821	73,008	-	Number of Network Sites
	2100-3107	\$ 1,863,672	43%	53%	4%	0%	803,056	991,473	69,142	-	LAN ID w/o unreg
	2100-3498	\$ 14,052	43%	53%	4%	0%	6,055	7,476	521	-	LAN ID w/o unreg
	2100-3682	\$ 838,022	73%	27%	0%	0%	612,175	225,847	-	-	P/Y Dept. Activity Study
	2100-3763	\$ 287,354	46%	51%	3%	0%	132,318	147,355	7,681	-	Weighted Average of cost centers under Director
	2100-3916	\$ 5,650,887	43%	53%	4%	0%	2,434,967	3,006,272	209,648	-	LAN ID w/o unreg
	2100-3921	\$ 7,060,321	43%	53%	4%	0%	3,042,292	3,756,091	261,938	-	LAN ID w/o unreg
	2100-3954	\$ 44,232	43%	53%	4%	0%	19,060	23,531	1,641	-	LAN ID w/o unreg
	2100-3975	\$ 755,737	50%	49%	1%	0%	380,816	369,102	5,819	-	Number of Network Sites
	2100-4094	\$ 125,261	43%	53%	4%	0%	53,975	66,639	4,647	-	LAN ID w/o unreg
	2100-4124	\$ 225,383	43%	53%	4%	0%	97,117	119,904	8,362	-	LAN ID w/o unreg
	2100-4174	\$ 1,021,261	43%	53%	4%	0%	440,061	543,311	37,889	-	LAN ID w/o unreg
Grand Total		31,801,516					14,733,750	16,245,327	822,439	-	
							46.33%	51.08%	2.59%	0.00%	2021 Weighted Average of 2100-0207.000

2022											
Workpaper	Cost Center	2022 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-0207.000	2100-0207	\$ 1,302,843	43%	53%	4%	0%	561,395	693,112	48,335	-	LAN ID w/o unreg
	2100-3091	\$ 319,893	43%	53%	4%	0%	137,842	170,183	11,868	-	LAN ID w/o unreg
	2100-3095	\$ 1,091,536	45%	53%	2%	0%	493,924	579,465	18,147	-	Weighted Average of cost centers under Director
	2100-3100	\$ 2,014,843	43%	53%	4%	0%	868,196	1,071,897	74,751	-	LAN ID w/o unreg
	2100-3106	\$ 10,180,472	50%	49%	1%	0%	5,129,940	4,972,143	78,390	-	Number of Network Sites
	2100-3107	\$ 1,947,672	43%	53%	4%	0%	839,252	1,036,161	72,259	-	LAN ID w/o unreg
	2100-3498	\$ 14,052	43%	53%	4%	0%	6,055	7,476	521	-	LAN ID w/o unreg
	2100-3682	\$ 838,022	73%	27%	0%	0%	612,175	225,847	-	-	P/Y Dept. Activity Study
	2100-3763	\$ 287,354	46%	51%	3%	0%	132,318	147,355	7,681	-	Weighted Average of cost centers under Director
	2100-3916	\$ 4,505,903	43%	53%	4%	0%	1,941,593	2,397,140	167,169	-	LAN ID w/o unreg
	2100-3921	\$ 4,835,105	43%	53%	4%	0%	2,083,447	2,572,276	179,382	-	LAN ID w/o unreg
	2100-3954	\$ 44,232	43%	53%	4%	0%	19,060	23,531	1,641	-	LAN ID w/o unreg
	2100-3975	\$ 755,737	50%	49%	1%	0%	380,816	369,102	5,819	-	Number of Network Sites
	2100-4094	\$ 125,261	43%	53%	4%	0%	53,975	66,639	4,647	-	LAN ID w/o unreg
	2100-4124	\$ 225,383	43%	53%	4%	0%	97,117	119,904	8,362	-	LAN ID w/o unreg
	2100-4174	\$ 1,077,313	43%	53%	4%	0%	464,214	573,131	39,968	-	LAN ID w/o unreg
Grand Total		29,565,621					13,821,320	15,025,361	718,941	-	
							46.75%	50.82%	2.43%	0.00%	2022 Weighted Average of 2100-0207.000

Note: Totals may include rounding differences.

2023											
Workpaper	Cost Center	2023 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-0207.000	2100-0207	\$ 1,302,843	43%	53%	4%	0%	561,395	693,112	48,335	-	LAN ID w/o unreg
	2100-3091	\$ 319,893	43%	53%	4%	0%	137,842	170,183	11,868	-	LAN ID w/o unreg
	2100-3095	\$ 1,091,536	45%	53%	2%	0%	493,924	579,465	18,147	-	Weighted Average of cost centers under Director
	2100-3100	\$ 2,394,334	43%	53%	4%	0%	1,031,719	1,273,786	88,830	-	LAN ID w/o unreg
	2100-3106	\$ 10,700,497	50%	49%	1%	0%	5,391,981	5,226,123	82,394	-	Number of Network Sites
	2100-3107	\$ 2,031,672	43%	53%	4%	0%	875,447	1,080,849	75,375	-	LAN ID w/o unreg
	2100-3498	\$ 14,052	43%	53%	4%	0%	6,055	7,476	521	-	LAN ID w/o unreg
	2100-3682	\$ 838,022	73%	27%	0%	0%	612,175	225,847	-	-	P/Y Dept. Activity Study
	2100-3763	\$ 287,354	46%	51%	3%	0%	132,318	147,355	7,681	-	Weighted Average of cost centers under Director
	2100-3916	\$ 4,480,720	43%	53%	4%	0%	1,930,742	2,383,743	166,235	-	LAN ID w/o unreg
	2100-3921	\$ 5,051,728	43%	53%	4%	0%	2,176,789	2,687,519	187,419	-	LAN ID w/o unreg
	2100-3954	\$ 44,232	43%	53%	4%	0%	19,060	23,531	1,641	-	LAN ID w/o unreg
	2100-3975	\$ 755,737	50%	49%	1%	0%	380,816	369,102	5,819	-	Number of Network Sites
	2100-4094	\$ 125,261	43%	53%	4%	0%	53,975	66,639	4,647	-	LAN ID w/o unreg
	2100-4124	\$ 225,383	43%	53%	4%	0%	97,117	119,904	8,362	-	LAN ID w/o unreg
	2100-4174	\$ 1,077,313	43%	53%	4%	0%	464,214	573,131	39,968	-	LAN ID w/o unreg
Grand Total		30,740,577					14,365,570	15,627,764	747,243	-	
							46.73%	50.84%	2.43%	0.00%	2023 Weighted Average of 2100-0207.000

2024											
Workpaper	Cost Center	2024 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-0207.000	2100-0207	\$ 1,302,843	43%	53%	4%	0%	561,395	693,112	48,335	-	LAN ID w/o unreg
	2100-3091	\$ 319,893	43%	53%	4%	0%	137,842	170,183	11,868	-	LAN ID w/o unreg
	2100-3095	\$ 1,091,536	45%	53%	2%	0%	493,924	579,465	18,147	-	Weighted Average of cost centers under Director
	2100-3100	\$ 2,708,893	43%	53%	4%	0%	1,167,262	1,441,131	100,500	-	LAN ID w/o unreg
	2100-3106	\$ 13,204,038	50%	49%	1%	0%	6,653,515	6,448,852	101,671	-	Number of Network Sites
	2100-3107	\$ 2,199,672	43%	53%	4%	0%	947,839	1,170,225	81,608	-	LAN ID w/o unreg
	2100-3498	\$ 14,052	43%	53%	4%	0%	6,055	7,476	521	-	LAN ID w/o unreg
	2100-3682	\$ 838,022	73%	27%	0%	0%	612,175	225,847	-	-	P/Y Dept. Activity Study
	2100-3763	\$ 287,354	46%	51%	3%	0%	132,318	147,355	7,681	-	Weighted Average of cost centers under Director
	2100-3916	\$ 4,489,063	43%	53%	4%	0%	1,934,337	2,388,181	166,544	-	LAN ID w/o unreg
	2100-3921	\$ 5,023,428	43%	53%	4%	0%	2,164,595	2,672,464	186,369	-	LAN ID w/o unreg
	2100-3954	\$ 44,232	43%	53%	4%	0%	19,060	23,531	1,641	-	LAN ID w/o unreg
	2100-3975	\$ 755,737	50%	49%	1%	0%	380,816	369,102	5,819	-	Number of Network Sites
	2100-4094	\$ 125,261	43%	53%	4%	0%	53,975	66,639	4,647	-	LAN ID w/o unreg
	2100-4124	\$ 225,383	43%	53%	4%	0%	97,117	119,904	8,362	-	LAN ID w/o unreg
	2100-4174	\$ 1,039,945	43%	53%	4%	0%	448,112	553,251	38,582	-	LAN ID w/o unreg
Grand Total		33,669,352					15,810,338	17,076,718	782,296	-	
							46.96%	50.72%	2.32%	0.00%	2024 Weighted Average of 2100-0207.000

Note: Totals may include rounding differences.

SM 2.0 Capital Project Impacts: Contract non-labor cumulative annual amortization of SM 2.0 10 yr. data plan expense normalized over TY2024 GRC Cycle. Reference Exhibit SDG&E -25 Information Technology Witness (William J. Exon) SM 2.0 Capital Project CWP 218810.

Year	SM2.0 10 yr Data Plan Non-Labor Costs	Annual Amortization (1/10th)	Cumulative Annual Amortization Expense for SM 2.0 10 Yr. Data Plan	10 yr data plan coverage years
2023 ¹	695,247	69,525	69,525	July 2023-July 2033
2024	7,307,405	730,741	800,266	2024-2033
2025	7,301,127	730,113	1,530,378	2025-2034
2026	11,229,450	1,122,945	2,653,323	2026-2035
2027	10,683,910	1,068,391	3,721,714	2027-2036
Total	37,217,139	3,721,714	8,705,681	
			<i>2024 Forecast - Cumulative Annual Amortization Expense Normalized over TY2024 GRC Cycle (2024-2027) Sum Rows (D5:D8)/4</i>	
			2,176,420	
Footnotes:				

The 2023 amortization of the SM 2.0 10 year data plan forecasted to begin in July 2023, therefore the forecast adjustment for 2023 is half of the full year. $(\$69,525 / 12) * 6 = \$34,763$.

Beginning of Workpaper
2100-3097.000 - Shared Infrastructure

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2100-3097.000 - Shared Infrastructure

Activity Description:

The shared SDG&E IT infrastructure costs represent labor and non-labor for technology systems where costs are shared between multiple business units and support all other company-specific activities. The activities supported in this area include end user computing, IT service management, and office productivity tools.

Units were not previously defined. Labor can be identified with FTE units, and for non-labor there is no single unit defined. Numerical units below represent FTEs identified.

2021 = 13.8
 2022 = 13.8
 2023 = 13.8
 2024 = 14.5

Forecast Explanations:

Labor - Base YR Rec

Historical costs have fluctuated between various workgroups as a result of either internal organizational changes, transfers of responsibilities, or shifting of cost drivers from one area of the IT department to another. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

Non-Labor - Base YR Rec

Historical costs, such as contractor services and cost of software and/or hardware, have fluctuated as a result of shifting cost drivers in the IT department. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2017	2018	2019	2020	2021	2022	2023	2024	
Labor		2,002	1,453	1,402	1,686	1,828	1,828	1,828	1,912	
Non-Labor		987	791	795	1,799	2,215	2,055	2,055	2,055	
NSE		0	0	0	0	0	0	0	0	
Total		2,988	2,244	2,197	3,485	4,043	3,883	3,883	3,967	
FTE		17.9	11.7	11.7	13.1	13.8	13.8	13.8	14.5	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2100-3097.000 - Shared Infrastructure

Cost Center Allocations (Incurred Costs):

	2021 Adjusted-Recorded					2022 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	1	0	1	0.0	0	1	0	1	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	1,828	2,215	0	4,043	14.0	1,828	2,054	0	3,882	14.0
Total Incurred	1,828	2,216	0	4,044	13.8	1,828	2,055	0	3,883	13.8
% Allocation										
Retained	43.09%	43.09%				43.09%	43.09%			
SEU	53.20%	53.20%				53.20%	53.20%			
CORP	3.71%	3.71%				3.71%	3.71%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2023 Adjusted-Forecast					2024 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	1	0	1	0.0	0	1	0	1	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	1,828	2,054	0	3,882	14.0	1,912	2,054	0	3,966	14.7
Total Incurred	1,828	2,055	0	3,883	13.8	1,912	2,055	0	3,967	14.5
% Allocation										
Retained	43.09%	43.09%				43.09%	43.09%			
SEU	53.20%	53.20%				53.20%	53.20%			
CORP	3.71%	3.71%				3.71%	3.71%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2022

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2023

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2024

Allocations are based on a weighted average of all cost centers within the workpaper.

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2100-3097.000 - Shared Infrastructure

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	1,828	1,828	1,828	0	0	84	1,828	1,828	1,912
Non-Labor	Base YR Rec	2,215	2,215	2,215	-161	-161	-161	2,054	2,054	2,054
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		4,043	4,043	4,043	-161	-161	-77	3,882	3,882	3,966
FTE	Base YR Rec	13.8	13.8	13.8	0.0	0.0	0.7	13.8	13.8	14.5

Forecast Adjustment Details:

Year	Labor	NLbr	NSE	Total	FTE	Adj Type
2022	0	-161	0	-161	0.0	1-Sided Adj
Explanation:	To account for unbundled maintenance that occurred in 2021. Any future maintenance is included in the Capital chapter of GRC.					
2022 Total	0	-161	0	-161	0.0	
2023	0	-161	0	-161	0.0	1-Sided Adj
Explanation:	To account for unbundled maintenance that occurred in 2021. Any future maintenance is included in the Capital chapter of GRC.					
2023 Total	0	-161	0	-161	0.0	
2024	84	0	0	84	0.7	1-Sided Adj
Explanation:	Adding 1 internal Employee to support growing IT initiatives at 70% O&M					
2024	0	-161	0	-161	0.0	1-Sided Adj
Explanation:	To account for unbundled maintenance that occurred in 2021. Any future maintenance is included in the Capital chapter of GRC.					
2024 Total	84	-161	0	-77	0.7	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2100-3097.000 - Shared Infrastructure

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	1,581	1,176	1,170	1,419	1,591
Non-Labor	895	732	753	1,733	2,220
NSE	0	0	0	0	0
Total	2,476	1,908	1,923	3,152	3,811
FTE	15.3	10.0	10.2	11.5	12.0
Adjustments (Nominal \$) **					
Labor	0	-8	-8	-2	-2
Non-Labor	0	0	0	-5	-5
NSE	0	0	0	0	0
Total	0	-8	-8	-7	-6
FTE	0.0	-0.1	-0.1	-0.1	-0.2
Recorded-Adjusted (Nominal \$)					
Labor	1,581	1,168	1,162	1,418	1,589
Non-Labor	895	732	753	1,727	2,215
NSE	0	0	0	0	0
Total	2,476	1,900	1,915	3,145	3,805
FTE	15.3	10.0	10.1	11.3	11.8
Vacation & Sick (Nominal \$)					
Labor	235	177	166	201	239
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	235	177	166	201	239
FTE	2.6	1.7	1.6	1.8	2.0
Escalation to 2021\$					
Labor	186	108	74	67	0
Non-Labor	92	59	42	72	0
NSE	0	0	0	0	0
Total	277	167	116	139	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2021\$)					
Labor	2,002	1,453	1,402	1,686	1,828
Non-Labor	987	791	795	1,799	2,215
NSE	0	0	0	0	0
Total	2,988	2,244	2,197	3,485	4,043
FTE	17.9	11.7	11.7	13.1	13.8

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2100-3097.000 - Shared Infrastructure

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2017	2018	2019	2020	2021
Labor	0	-8	-8	-2	-2
Non-Labor	0	0	0	-5	-5
NSE	0	0	0	0	0
Total	0	-8	-8	-7	-6
FTE	0.0	-0.1	-0.1	-0.1	-0.2

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adj Type
2017 Total	0	0	0	0.0	
2018	-8	0	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2018 Total	-8	0	0	-0.1	
2019	-8	0	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2019 Total	-8	0	0	-0.1	
2020	0	-5	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	-2	0	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2020 Total	-2	-5	0	-0.1	
2021	0	-5	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	-1	0	0	-0.1	1-Sided Adj
Explanation:	Adjustment to remove non-GRC costs related to the SB1371 Emissions Strategy Program that are being recovered through a separate regulatory process.				
2021	0	0	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2021 Total	-2	-5	0	-0.2	

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper 2100-3097.000

2021											
Workpaper	Cost Center	2021 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-3097.000	2100-3097	\$ 1,367,494	43%	53%	4%	0%	589,253	727,507	50,734	-	LAN ID w/o unreg
	2100-3684	\$ 1,861,202	43%	53%	4%	0%	801,992	990,159	69,051	-	LAN ID w/o unreg
	2100-4095	\$ 814,600	43%	53%	4%	0%	351,011	433,367	30,222	-	LAN ID w/o unreg
Grand Total		4,043,295					1,742,256	2,151,033	150,006	-	
							43.09%	53.20%	3.71%	0.00%	2021 Weighted Average of 2100-3097.000

2022											
Workpaper	Cost Center	2022 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-3097.000	2100-3097	\$ 1,367,494	43%	53%	4%	0%	589,253	727,507	50,734	-	LAN ID w/o unreg
	2100-3684	\$ 1,700,202	43%	53%	4%	0%	732,617	904,507	63,077	-	LAN ID w/o unreg
	2100-4095	\$ 814,600	43%	53%	4%	0%	351,011	433,367	30,222	-	LAN ID w/o unreg
Grand Total		3,882,295					1,672,881	2,065,381	144,033	-	
							43.09%	53.20%	3.71%	0.00%	2022 Weighted Average of 2100-3097.000

2023											
Workpaper	Cost Center	2023 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-3097.000	2100-3097	\$ 1,367,494	43%	53%	4%	0%	589,253	727,507	50,734	-	LAN ID w/o unreg
	2100-3684	\$ 1,700,202	43%	53%	4%	0%	732,617	904,507	63,077	-	LAN ID w/o unreg
	2100-4095	\$ 814,600	43%	53%	4%	0%	351,011	433,367	30,222	-	LAN ID w/o unreg
Grand Total		3,882,295					1,672,881	2,065,381	144,033	-	
							43.09%	53.20%	3.71%	0.00%	2023 Weighted Average of 2100-3097.000

2024											
Workpaper	Cost Center	2024 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-3097.000	2100-3097	\$ 1,367,494	43%	53%	4%	0%	589,253	727,507	50,734	-	LAN ID w/o unreg
	2100-3684	\$ 1,700,202	43%	53%	4%	0%	732,617	904,507	63,077	-	LAN ID w/o unreg
	2100-4095	\$ 898,600	43%	53%	4%	0%	387,207	478,055	33,338	-	LAN ID w/o unreg
Grand Total		3,966,295					1,709,077	2,110,069	147,150	-	
							43.09%	53.20%	3.71%	0.00%	2024 Weighted Average of 2100-3097.000

Note: Totals may include rounding differences.

SDG&E/INFORMATION TECHNOLOGY/EXH No: SDG&E-25-WP/Witness: T. F.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: C. Support
Cost Center: VARIOUS

Summary for Category: C. Support

	In 2021\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2021	2022	2023	2024
Labor	7,014	7,182	7,350	7,518
Non-Labor	3,382	3,286	3,566	3,566
NSE	0	0	0	0
Total	10,396	10,468	10,916	11,084
FTE	65.7	67.1	68.5	69.9

Cost Centers belonging to this Category:

2100-0460.000 Shared Operational Support

Labor	2,886	2,970	3,054	3,138
Non-Labor	1,626	1,310	1,310	1,310
NSE	0	0	0	0
Total	4,512	4,280	4,364	4,448
FTE	19.8	20.5	21.2	21.9

2100-3172.000 Shared Support

Labor	4,128	4,212	4,296	4,380
Non-Labor	1,756	1,976	2,256	2,256
NSE	0	0	0	0
Total	5,884	6,188	6,552	6,636
FTE	45.9	46.6	47.3	48.0

Note: Totals may include rounding differences.

Beginning of Workpaper
2100-0460.000 - Shared Operational Support

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: C. Support
 Category-Sub: 1. Support
 Cost Center: 2100-0460.000 - Shared Operational Support

Activity Description:

The shared SDG&E IT support costs represent labor and non-labor for technology systems where costs are shared between multiple business units and support the objectives of operating and maintaining the company infrastructure systems safely and reliably. The types of services supported in this area include quality assurance, release and environment management, enterprise monitoring, and solutions architecture.

Forecast Explanations:

Labor - Base YR Rec

Historical costs have fluctuated between various workgroups as a result of either internal organizational changes, transfers of responsibilities, or shifting of cost drivers from one area of the IT department to another. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

Non-Labor - Base YR Rec

Historical costs, such as contractor services and cost of software and/or hardware, have fluctuated as a result of shifting cost drivers in the IT department. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2017	2018	2019	2020	2021	2022	2023	2024	
Labor		2,096	2,514	2,077	3,064	2,886	2,970	3,054	3,138	
Non-Labor		1,412	2,080	2,565	2,312	1,626	1,310	1,310	1,310	
NSE		0	0	0	0	0	0	0	0	
Total		3,509	4,594	4,642	5,376	4,512	4,280	4,364	4,448	
FTE		15.3	19.3	13.5	21.2	19.8	20.5	21.2	21.9	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: C. Support
Category-Sub: 1. Support
Cost Center: 2100-0460.000 - Shared Operational Support

Cost Center Allocations (Incurred Costs):

	2021 Adjusted-Recorded					2022 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	6	11	0	17	-0.1	6	11	0	17	-0.1
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	2,880	1,615	0	4,495	19.9	2,964	1,299	0	4,263	20.6
Total Incurred	2,886	1,626	0	4,512	19.8	2,970	1,310	0	4,280	20.5
% Allocation										
Retained	50.14%	50.14%				50.64%	50.64%			
SEU	47.94%	47.94%				47.60%	47.60%			
CORP	1.89%	1.89%				1.73%	1.73%			
Unreg	0.03%	0.03%				0.03%	0.03%			

	2023 Adjusted-Forecast					2024 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	6	11	0	17	-0.1	6	11	0	17	-0.1
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	3,048	1,299	0	4,347	21.3	3,132	1,299	0	4,431	22.0
Total Incurred	3,054	1,310	0	4,364	21.2	3,138	1,310	0	4,448	21.9
% Allocation										
Retained	50.64%	50.64%				50.72%	50.72%			
SEU	47.60%	47.60%				47.54%	47.54%			
CORP	1.73%	1.73%				1.71%	1.71%			
Unreg	0.03%	0.03%				0.03%	0.03%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2022

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2023

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2024

Allocations are based on a weighted average of all cost centers within the workpaper.

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: C. Support
 Category-Sub: 1. Support
 Cost Center: 2100-0460.000 - Shared Operational Support

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	2,886	2,886	2,886	84	168	252	2,970	3,054	3,138
Non-Labor	Base YR Rec	1,626	1,626	1,626	-316	-316	-316	1,310	1,310	1,310
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		4,512	4,512	4,512	-232	-148	-64	4,280	4,364	4,448
FTE	Base YR Rec	19.8	19.8	19.8	0.7	1.4	2.1	20.5	21.2	21.9

Forecast Adjustment Details:

Year	Labor	NLbr	NSE	Total	FTE	Adj Type
2022	84	0	0	84	0.7	1-Sided Adj
Explanation:	Adding 1 internal Employee to support growing IT initiatives at 70% O&M					
2022	0	-316	0	-316	0.0	1-Sided Adj
Explanation:	Decreased ITQA Services needed over Base Year					
2022 Total	84	-316	0	-232	0.7	
2023	168	0	0	168	1.4	1-Sided Adj
Explanation:	Adding 1 additional internal Employee (on top of 2022) to support growing IT initiatives at 70% O&M					
2023	0	-316	0	-316	0.0	1-Sided Adj
Explanation:	Decreased ITQA Services needed over Base Year					
2023 Total	168	-316	0	-148	1.4	
2024	252	0	0	252	2.1	1-Sided Adj
Explanation:	Adding 1 additional internal Employee (on top of 2023) to support growing IT initiatives at 70% O&M					
2024	0	-316	0	-316	0.0	1-Sided Adj
Explanation:	Decreased ITQA Services needed over Base Year					
2024 Total	252	-316	0	-64	2.1	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: C. Support
Category-Sub: 1. Support
Cost Center: 2100-0460.000 - Shared Operational Support

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	2,011	1,946	2,904	2,582	2,512
Non-Labor	1,537	1,481	2,556	2,412	2,099
NSE	0	0	0	0	0
Total	3,547	3,427	5,460	4,994	4,611
FTE	14.3	13.2	11.7	18.4	17.0
Adjustments (Nominal \$) **					
Labor	-355	75	-1,183	-5	-3
Non-Labor	-256	444	-126	-193	-473
NSE	0	0	0	0	0
Total	-610	519	-1,309	-198	-477
FTE	-1.1	3.4	-0.1	-0.1	-0.1
Recorded-Adjusted (Nominal \$)					
Labor	1,656	2,021	1,721	2,576	2,509
Non-Labor	1,281	1,925	2,430	2,220	1,626
NSE	0	0	0	0	0
Total	2,937	3,946	4,151	4,796	4,135
FTE	13.2	16.6	11.6	18.2	16.9
Vacation & Sick (Nominal \$)					
Labor	246	306	246	365	377
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	246	306	246	365	377
FTE	2.1	2.7	1.9	3.0	2.9
Escalation to 2021\$					
Labor	195	187	109	122	0
Non-Labor	131	155	135	92	0
NSE	0	0	0	0	0
Total	326	342	245	214	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2021\$)					
Labor	2,096	2,514	2,077	3,064	2,886
Non-Labor	1,412	2,080	2,565	2,312	1,626
NSE	0	0	0	0	0
Total	3,509	4,594	4,642	5,376	4,512
FTE	15.3	19.3	13.5	21.2	19.8

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: C. Support
Category-Sub: 1. Support
Cost Center: 2100-0460.000 - Shared Operational Support

Summary of Adjustments to Recorded:

		In Nominal \$ (000) Incurred Costs				
Years		2017	2018	2019	2020	2021
Labor		-355	75	-1,183	-5	-3
Non-Labor		-256	444	-126	-193	-473
NSE		0	0	0	0	0
	Total	-610	519	-1,309	-198	-477
FTE		-1.1	3.4	-0.1	-0.1	-0.1

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adj Type
2017	0	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).				
2017	-354	0	0	-1.0	1-Sided Adj
Explanation:	Removing executive officer costs as defined under Resolution E-4963 pursuant to Public Utilities Code Section 706, as enacted by Senate Bill (SB) 901, which prohibits [SDG&E or SoCalGas], from recovering from ratepayers any annual salary, bonus, benefits, or other consideration of any value (compensation and benefits).				
2017	0	-6	0	0.0	1-Sided Adj
Explanation:	Removing executive officer costs as defined under Resolution E-4963 pursuant to Public Utilities Code Section 706, as enacted by Senate Bill (SB) 901, which prohibits [SDG&E or SoCalGas], from recovering from ratepayers any annual salary, bonus, benefits, or other consideration of any value (compensation and benefits).				
2017	0	-250	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2017 Total	-355	-256	0	-1.1	
2018	0	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	-442	0	0	-1.0	1-Sided Adj
Explanation:	Removing executive officer costs as defined under Resolution E-4963 pursuant to Public Utilities Code Section 706, as enacted by Senate Bill (SB) 901, which prohibits [SDG&E or SoCalGas], from recovering from ratepayers any annual salary, bonus, benefits, or other consideration of any value (compensation and benefits).				
2018	0	-4	0	0.0	1-Sided Adj

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: C. Support
 Category-Sub: 1. Support
 Cost Center: 2100-0460.000 - Shared Operational Support

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>
Explanation:	Removing executive officer costs as defined under Resolution E-4963 pursuant to Public Utilities Code Section 706, as enacted by Senate Bill (SB) 901, which prohibits [SDG&E or SoCalGas], from recovering from ratepayers any annual salary, bonus, benefits, or other consideration of any value (compensation and benefits).				
2018	517	448	0	4.3	1-Sided Adj
Explanation:	Historical Adjustment for VMO team temporarily at Corporate				
2018 Total	75	444	0	3.4	
2019	20	0	0	0.1	1-Sided Adj
Explanation:	Removing executive officer costs as defined under Resolution E-4963 pursuant to Public Utilities Code Section 706, as enacted by Senate Bill (SB) 901, which prohibits [SDG&E or SoCalGas], from recovering from ratepayers any annual salary, bonus, benefits, or other consideration of any value (compensation and benefits).				
2019	-1,203	-4	0	-0.2	1-Sided Adj
Explanation:	Removing executive officer costs as defined under Resolution E-4963 pursuant to Public Utilities Code Section 706, as enacted by Senate Bill (SB) 901, which prohibits [SDG&E or SoCalGas], from recovering from ratepayers any annual salary, bonus, benefits, or other consideration of any value (compensation and benefits).				
2019	0	-123	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2019 Total	-1,183	-126	0	-0.1	
2020	0	-11	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	-5	0	0	-0.1	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2020	0	-174	0	0.0	CCTR Transf To 2100-4048.000
Explanation:	Transfer historical Noggin 2.0 costs from IT chapter to Emergency Planning & Preparedness chapter				
2020	0	-8	0	0.0	1-Sided Adj
Explanation:	Removing executive officer costs as defined under Resolution E-4963 pursuant to Public Utilities Code Section 706, as enacted by Senate Bill (SB) 901, which prohibits SDG&E, from recovering from ratepayers any annual salary, bonus, benefits, or other consideration of any value (compensation and benefits).				
2020 Total	-5	-193	0	-0.1	
2021	0	-8	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	-3	0	0	-0.1	1-Sided Adj

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: C. Support
 Category-Sub: 1. Support
 Cost Center: 2100-0460.000 - Shared Operational Support

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>
Explanation:	Adjustment to remove non-GRC costs related to the SB1371 Emissions Strategy Program that are being recovered through a separate regulatory process.				
2021	0	-2	0	0.0	1-Sided Adj
Explanation:	Removing executive officer costs as defined under Resolution E-4963 pursuant to Public Utilities Code Section 706, as enacted by Senate Bill (SB) 901, which prohibits SDG&E, from recovering from ratepayers any annual salary, bonus, benefits, or other consideration of any value (compensation and benefits).				
2021	0	-89	0	0.0	CCTR Transf To 2100-0364.001
Explanation:	Transfer spot cash awards to AGCP team				
2021	0	-25	0	0.0	1-Sided Adj
Explanation:	Removing Bill Debt OIR costs that are anticipated to be requested for recovery through a non-GRC Memo Account				
2021	0	-349	0	0.0	1-Sided Adj
Explanation:	Transfer Gartner from 2100-0460.000 to 2100-3172.000 to align with org structure beginning in 2022				
2021 Total	-3	-473	0	-0.1	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: C. Support
 Category-Sub: 1. Support
 Cost Center: 2100-0460.000 - Shared Operational Support

RAMP Item # 1

RAMP Activity

RAMP Chapter: SDG&E-CFF-4 Foundational Technology Systems
 RAMP Line Item ID: CFF 1 - CFF 9
 RAMP Line Item Name: All Mitigations
 Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost (2021 \$)	2022 Forecast (2021 \$)	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
					Low	High
Tranche 1 Cost Estimate	828	828	828	828	18,890	24,138

Cost Estimate Changes from RAMP:

Notable change in forecast estimate from RAMP: Modeling all five RAMP mitigations (1 - 9) in eight workpapers; The RAMP range is the sum of ranges for all nine mitigations; The forecast reflects pre-allocation values while RAMP ranges reflect post-allocation values between SoCalGas and SDG&E.

GRC Work Unit/Activity Level Estimates

Unit of Measure	2021 Historical Embedded Activities	2022 Forecast Activities	2023 Forecast Activities	2024 Forecast Activities	2024 RAMP Range Activities	
					Low	High
Tranche 1 FTE & no-single unit	19.80	20.50	21.20	21.90	0.00	0.00

Work Unit Changes from RAMP:

Units were not defined during RAMP filing. Labor can be identified with FTE units, and for non-labor there is no single unit defined. Numerical units in the boxes represent FTEs identified.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	0.000	0.000

RSE Changes from RAMP:

Not Applicable

Supplemental Workpapers for Workpaper 2100-0460.000

2021											
Workpaper	Cost Center	2021 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-0460.000	2100-3699	\$ 521,649	43%	53%	4%	0%	224,778	277,517	19,353	-	LAN ID w/o unreg
	2100-3733	\$ 600,297	48%	50%	2%	0%	287,782	299,488	11,406	1,621	Weighted Average of cost centers under SVP
	2100-3814	\$ 479,887	48%	49%	3%	0%	231,257	233,993	14,637	-	Weighted Average of cost centers under Director
	2100-3935	\$ 1,809,369	56%	44%	0%	0%	1,017,770	791,599	-	-	Workload Distribution Study
	2100-4030	\$ 272,933	73%	28%	0%	0%	197,876	75,057	-	-	Applications used for DevSecOps across both utilities
	2100-4101	\$ 827,736	43%	53%	4%	0%	356,672	440,356	30,709	-	LAN ID w/o unreg
Grand Total		4,511,870					2,316,136	2,118,009	76,104	1,621	

51.33% 46.94% 1.69% 0.04% 2021 Weighted Average of 2100-0460.000

2022											
Workpaper	Cost Center	2022 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-0460.000	2100-3699	\$ 521,649	43%	53%	4%	0%	224,778	277,517	19,353	-	LAN ID w/o unreg
	2100-3733	\$ 600,297	48%	50%	2%	0%	287,782	299,488	11,406	1,621	Weighted Average of cost centers under SVP
	2100-3814	\$ 479,887	48%	49%	3%	0%	231,257	233,993	14,637	-	Weighted Average of cost centers under Director
	2100-3935	\$ 1,577,736	56%	44%	0%	0%	887,476	690,259	-	-	Workload Distribution Study
	2100-4030	\$ 272,933	73%	28%	0%	0%	197,876	75,057	-	-	Applications used for DevSecOps across both utilities
	2100-4101	\$ 827,736	43%	53%	4%	0%	356,672	440,356	30,709	-	LAN ID w/o unreg
Grand Total		4,280,237					2,185,842	2,016,670	76,104	1,621	

51.07% 47.12% 1.78% 0.04% 2022 Weighted Average of 2100-0460.000

2023											
Workpaper	Cost Center	2023 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-0460.000	2100-3699	\$ 521,649	43%	53%	4%	0%	224,778	277,517	19,353	-	LAN ID w/o unreg
	2100-3733	\$ 600,297	48%	50%	2%	0%	287,782	299,488	11,406	1,621	Weighted Average of cost centers under SVP
	2100-3814	\$ 479,887	48%	49%	3%	0%	231,257	233,993	14,637	-	Weighted Average of cost centers under Director
	2100-3935	\$ 1,661,736	56%	44%	0%	0%	934,726	727,009	-	-	Workload Distribution Study
	2100-4030	\$ 272,933	73%	28%	0%	0%	197,876	75,057	-	-	Applications used for DevSecOps across both utilities
	2100-4101	\$ 827,736	43%	53%	4%	0%	356,672	440,356	30,709	-	LAN ID w/o unreg
Grand Total		4,364,237					2,233,092	2,053,420	76,104	1,621	

51.17% 47.05% 1.74% 0.04% 2023 Weighted Average of 2100-0460.000

2024											
Workpaper	Cost Center	2024 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology
2100-0460.000	2100-3699	\$ 521,649	43%	53%	4%	0%	224,778	277,517	19,353	-	LAN ID w/o unreg
	2100-3733	\$ 600,297	48%	50%	2%	0%	287,782	299,488	11,406	1,621	Weighted Average of cost centers under SVP
	2100-3814	\$ 479,887	48%	49%	3%	0%	231,257	233,993	14,637	-	Weighted Average of cost centers under Director
	2100-3935	\$ 1,745,736	56%	44%	0%	0%	981,976	763,759	-	-	Workload Distribution Study
	2100-4030	\$ 272,933	73%	28%	0%	0%	197,876	75,057	-	-	Applications used for DevSecOps across both utilities
	2100-4101	\$ 827,736	43%	53%	4%	0%	356,672	440,356	30,709	-	LAN ID w/o unreg
Grand Total		4,448,237					2,280,342	2,090,170	76,104	1,621	

51.26% 46.99% 1.71% 0.04% 2024 Weighted Average of 2100-0460.000

Note: Totals may include rounding differences.

Beginning of Workpaper
2100-3172.000 - Shared Support

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: C. Support
 Category-Sub: 1. Support
 Cost Center: 2100-3172.000 - Shared Support

Activity Description:

The shared SDG&E IT support costs represent labor and non-labor for technology systems where costs are shared between multiple business units and support all other company-specific activities. The types of services supported in this area include vendor management office, financial investment optimization, organizational change management, associate and intern program, training and development, portfolio management, and cloud transformation office.

Units were not previously defined. Labor can be identified with FTE units, and for non-labor there is no single unit defined. Numerical units below represent FTEs identified.

2021 = 45.9
 2022 = 46.6
 2023 = 47.3
 2024 = 48.0

Forecast Explanations:

Labor - Base YR Rec

Historical costs have fluctuated between various workgroups as a result of either internal organizational changes, transfers of responsibilities, or shifting of cost drivers from one area of the IT department to another. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

Non-Labor - Base YR Rec

Historical costs, such as contractor services and cost of software and/or hardware, have fluctuated as a result of shifting cost drivers in the IT department. Therefore, base-year methodology is most appropriate because the base-year expenditures closely represent the future state of IT forecasts.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2017	2018	2019	2020	2021	2022	2023	2024	
Labor		2,094	2,909	2,979	3,083	4,128	4,212	4,296	4,380	
Non-Labor		675	1,052	1,604	1,303	1,756	1,975	2,255	2,255	
NSE		0	0	0	0	0	0	0	0	
Total		2,769	3,960	4,583	4,386	5,884	6,187	6,551	6,635	
FTE		24.6	31.6	36.6	35.0	45.9	46.6	47.3	48.0	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: C. Support
Category-Sub: 1. Support
Cost Center: 2100-3172.000 - Shared Support

Cost Center Allocations (Incurred Costs):

	2021 Adjusted-Recorded					2022 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	1	3	0	4	0.0	1	3	0	4	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	4,127	1,752	0	5,879	45.9	4,211	1,972	0	6,183	46.6
Total Incurred	4,128	1,755	0	5,883	45.9	4,212	1,975	0	6,187	46.6
% Allocation										
Retained	47.21%	47.21%				47.46%	47.46%			
SEU	49.79%	49.79%				49.58%	49.58%			
CORP	3.00%	3.00%				2.96%	2.96%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2023 Adjusted-Forecast					2024 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	1	3	0	4	0.0	1	3	0	4	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	4,295	2,252	0	6,547	47.3	4,379	2,252	0	6,631	48.0
Total Incurred	4,296	2,255	0	6,551	47.3	4,380	2,255	0	6,635	48.0
% Allocation										
Retained	47.71%	47.71%				47.95%	47.95%			
SEU	49.38%	49.38%				49.18%	49.18%			
CORP	2.91%	2.91%				2.87%	2.87%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2022

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2023

Allocations are based on a weighted average of all cost centers within the workpaper.

Cost Center Allocation Percentage for 2024

Allocations are based on a weighted average of all cost centers within the workpaper.

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: C. Support
Category-Sub: 1. Support
Cost Center: 2100-3172.000 - Shared Support

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	4,128	4,128	4,128	84	168	252	4,212	4,296	4,380
Non-Labor	Base YR Rec	1,756	1,756	1,756	220	500	500	1,976	2,256	2,256
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		5,884	5,884	5,884	304	668	752	6,188	6,552	6,636
FTE	Base YR Rec	45.9	45.9	45.9	0.7	1.4	2.1	46.6	47.3	48.0

Forecast Adjustment Details:

Year	Labor	NLbr	NSE	Total	FTE	Adj Type
2022	84	0	0	84	0.7	1-Sided Adj
Explanation:	Adding 1 internal Employee to support growing IT initiatives at 70% O&M					
2022	0	220	0	220	0.0	1-Sided Adj
Explanation:	Increased Purchased Services for large scale training initiatives, organizational change management consulting, and vendor management support					
2022 Total	84	220	0	304	0.7	
2023	168	0	0	168	1.4	1-Sided Adj
Explanation:	Adding 1 additional internal Employee (on top of 2022) to support growing IT initiatives at 70% O&M					
2023	0	500	0	500	0.0	1-Sided Adj
Explanation:	Increased Purchased Services for large scale training initiatives, organizational change management consulting, and vendor management support					
2023 Total	168	500	0	668	1.4	
2024	252	0	0	252	2.1	1-Sided Adj
Explanation:	Adding 1 additional internal Employee (on top of 2023) to support growing IT initiatives at 70% O&M					
2024	0	500	0	500	0.0	1-Sided Adj
Explanation:	Increased Purchased Services for large scale training initiatives, organizational change management consulting, and vendor management support					
2024 Total	252	500	0	752	2.1	

Note: Totals may include rounding differences.

SDG&E/INFORMATION TECHNOLOGY/Exh No:SDG&E-25-WP/Witness: T. Ballard

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: C. Support
Category-Sub: 1. Support
Cost Center: 2100-3172.000 - Shared Support

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	1,655	1,660	2,469	2,596	3,589
Non-Labor	613	872	1,755	1,464	1,424
NSE	0	0	0	0	0
Total	2,268	2,532	4,223	4,060	5,013
FTE	21.1	21.4	31.5	30.3	39.2
Adjustments (Nominal \$) **					
Labor	-1	678	0	-4	0
Non-Labor	0	102	-235	-213	333
NSE	0	0	0	0	0
Total	-1	779	-235	-217	333
FTE	-0.1	5.7	0.0	-0.1	0.0
Recorded-Adjusted (Nominal \$)					
Labor	1,654	2,338	2,469	2,592	3,589
Non-Labor	613	973	1,520	1,251	1,756
NSE	0	0	0	0	0
Total	2,267	3,311	3,988	3,843	5,345
FTE	21.0	27.1	31.5	30.1	39.2
Vacation & Sick (Nominal \$)					
Labor	245	354	353	368	539
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	245	354	353	368	539
FTE	3.6	4.5	5.1	4.9	6.7
Escalation to 2021\$					
Labor	194	216	157	123	0
Non-Labor	63	78	85	52	0
NSE	0	0	0	0	0
Total	257	295	242	175	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2021\$)					
Labor	2,094	2,909	2,979	3,083	4,128
Non-Labor	675	1,052	1,604	1,303	1,756
NSE	0	0	0	0	0
Total	2,769	3,960	4,583	4,386	5,884
FTE	24.6	31.6	36.6	35.0	45.9

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard
Category: C. Support
Category-Sub: 1. Support
Cost Center: 2100-3172.000 - Shared Support

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs						
	Years	2017	2018	2019	2020	2021
Labor		-0.943	678	0	-4	0
Non-Labor		0	102	-235	-213	333
NSE		0	0	0	0	0
	Total	-0.943	779	-235	-217	333
FTE		-0.1	5.7	0.0	-0.1	0.0

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj_Type</u>
2017	-1	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).				
2017 Total	-1	0	0	-0.1	
2018	0	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	677	102	0	5.6	1-Sided Adj
Explanation:	Historical Adjustment for VMO team temporarily at Corporate				
2018 Total	678	102	0	5.7	
2019	0	-15	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2019	0	-220	0	0.0	CCTR Transf To 2100-0207.000
Explanation:	Move Flexera maintenance to appropriate workpaper (2100-0207)				
2019 Total	0	-235	0	0.0	
2020	-4	-16	0	-0.1	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2020	0	-1	0	0.0	1-Sided Adj
Explanation:	One sided transfer out of affiliate (non-O&M) costs to align with actuals and forecast				
2020	0	-196	0	0.0	CCTR Transf To 2100-4048.000
Explanation:	Transfer historical Noggin 2.0 costs from IT chapter to Emergency Planning & Preparedness chapter				
2020 Total	-4	-213	0	-0.1	

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
 Witness: Tia L. Ballard
 Category: C. Support
 Category-Sub: 1. Support
 Cost Center: 2100-3172.000 - Shared Support

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>
2021	0	-17	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).				
2021	0	349	0	0.0	1-Sided Adj
Explanation:	Transfer Gartner from 2100-0460.000 to 2100-3172.000 to align with org structure beginning in 2022				
2021 Total	0	333	0	0.0	

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper 2100-3172.000

2021												
Workpaper	Cost Center	2021 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology	
2100-3172.000	2100-3317	\$ 988,069	43%	53%	4%	0%	425,759	525,653	36,657	-	LAN ID w/o unreg	
	2100-3842	\$ 2,348,059	43%	53%	4%	0%	1,011,779	1,249,168	87,113	-	LAN ID w/o unreg	
	2100-4031	\$ 1,405,526	63%	36%	0%	0%	891,559	510,966	3,001	-	Weighted Avg. of Dept. Allocations	
	2100-4086	\$ 310,557	43%	53%	4%	0%	133,819	165,216	11,522	-	LAN ID w/o unreg	
	2100-4087	\$ 446,538	43%	53%	4%	0%	192,413	237,558	16,567	-	LAN ID w/o unreg	
	2100-4156	\$ 151,675	43%	53%	4%	0%	65,357	80,691	5,627	-	LAN ID w/o unreg	
	2100-4159	\$ 233,949	43%	53%	4%	0%	100,809	124,461	8,679	-	LAN ID w/o unreg	
Grand Total		5,884,373					2,821,494	2,893,713	169,166	-		

47.95% 49.18% 2.87% 0.00% 2021 Weighted Average of 2100-3172.000

2022												
Workpaper	Cost Center	2022 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology	
2100-3172.000	2100-3317	\$ 1,138,069	43%	53%	4%	0%	490,394	605,453	42,222	-	LAN ID w/o unreg	
	2100-3842	\$ 2,348,059	43%	53%	4%	0%	1,011,779	1,249,168	87,113	-	LAN ID w/o unreg	
	2100-4031	\$ 1,489,526	63%	36%	0%	0%	944,842	541,504	3,180	-	Weighted Avg. of Dept. Allocations	
	2100-4086	\$ 310,557	43%	53%	4%	0%	133,819	165,216	11,522	-	LAN ID w/o unreg	
	2100-4087	\$ 516,538	43%	53%	4%	0%	222,576	274,798	19,164	-	LAN ID w/o unreg	
	2100-4156	\$ 151,675	43%	53%	4%	0%	65,357	80,691	5,627	-	LAN ID w/o unreg	
	2100-4159	\$ 233,949	43%	53%	4%	0%	100,809	124,461	8,679	-	LAN ID w/o unreg	
Grand Total		6,188,373					2,969,575	3,041,290	177,507	-		

47.99% 49.15% 2.87% 0.00% 2022 Weighted Average of 2100-3172.000

2023												
Workpaper	Cost Center	2023 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology	
2100-3172.000	2100-3317	\$ 1,188,069	43%	53%	4%	0%	511,939	632,053	44,077	-	LAN ID w/o unreg	
	2100-3842	\$ 2,348,059	43%	53%	4%	0%	1,011,779	1,249,168	87,113	-	LAN ID w/o unreg	
	2100-4031	\$ 1,773,140	63%	36%	0%	0%	1,124,745	644,609	3,786	-	Weighted Avg. of Dept. Allocations	
	2100-4086	\$ 310,557	43%	53%	4%	0%	133,819	165,216	11,522	-	LAN ID w/o unreg	
	2100-4087	\$ 546,538	43%	53%	4%	0%	235,503	290,758	20,277	-	LAN ID w/o unreg	
	2100-4156	\$ 151,675	43%	53%	4%	0%	65,357	80,691	5,627	-	LAN ID w/o unreg	
	2100-4159	\$ 233,949	43%	53%	4%	0%	100,809	124,461	8,679	-	LAN ID w/o unreg	
Grand Total		6,551,987					3,183,950	3,186,956	181,081	-		

48.60% 48.64% 2.76% 0.00% 2023 Weighted Average of 2100-3172.000

2024												
Workpaper	Cost Center	2024 Forecast	SDGE %	SCG %	Corp %	Unreg %	SDGE \$	SCG \$	CORP \$	UNREG \$	Methodology	
2100-3172.000	2100-3317	\$ 1,188,069	43%	53%	4%	0%	511,939	632,053	44,077	-	LAN ID w/o unreg	
	2100-3842	\$ 2,348,059	43%	53%	4%	0%	1,011,779	1,249,168	87,113	-	LAN ID w/o unreg	
	2100-4031	\$ 1,857,140	63%	36%	0%	0%	1,178,028	675,146	3,965	-	Weighted Avg. of Dept. Allocations	
	2100-4086	\$ 310,557	43%	53%	4%	0%	133,819	165,216	11,522	-	LAN ID w/o unreg	
	2100-4087	\$ 546,538	43%	53%	4%	0%	235,503	290,758	20,277	-	LAN ID w/o unreg	
	2100-4156	\$ 151,675	43%	53%	4%	0%	65,357	80,691	5,627	-	LAN ID w/o unreg	
	2100-4159	\$ 233,949	43%	53%	4%	0%	100,809	124,461	8,679	-	LAN ID w/o unreg	
Grand Total		6,635,987					3,237,234	3,217,493	181,260	-		

48.78% 48.49% 2.73% 0.00% 2024 Weighted Average of 2100-3172.000

Note: Totals may include rounding differences.

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

Area: INFORMATION TECHNOLOGY
Witness: Tia L. Ballard

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	Description
2100-0027	000	DIRECTOR CUSTOMER SERVICE & STAFF
2100-3078	000	SDG&E CUTOMER OPERATIONS SERVICES
2100-3081	000	SDGE CISCO SERVICE ORDER & FIN SUPPLY
2100-3084	000	CISCO BILLING & REVENUE
2100-3086	000	CUSTOMER ENGAGEMENT SERVICES
2100-3087	000	SDG&E APPLICATION SERVICES - DIR
2100-3094	000	ELECT OPS & SMART GRID
2100-3425	000	GAS MAPPING
2100-3502	000	IT SERVICE OPTIMIZATION
2100-3624	000	SDGE METER DATA SERVICES
2100-3647	000	PROJECT MANAGEMENT OFFICE FOR OPEX 20/20
2100-3697	000	GRID MODERNIZATION - PMO
2100-3772	000	ESS MOBILE APPS
2100-3803	000	SMART PRICING IT SERVICES
2100-3820	000	ESS MOBILE APPS
2100-3821	000	GIS STRATEGY & APP SUPPORT
2100-3823	000	IT APPLICATION SOUTH PMO
2100-3884	000	MANAGED SVC VOICE ENTERPRISE-SDGE
2100-3887	000	SDG&E APPS CONTRACTS
2100-3915	000	UTILITY OPS/FINCL CONTRACTS-SDGE
2100-3917	000	SDGE COMPUCOM CONTRACT SERVICE
2100-3920	000	IT&OTI CONTRACTS NSS
2100-3933	000	GIS & ARCHITECTURE-SDGE
2100-3956	000	MAINFRAME CONTRACTS SDG&E
2100-4079	000	SDGE HCL CONTRACT SERVICE
2100-4127	000	IT SDGE CONTRACTS - NSS
2100-4173	000	DIGITAL & CUSTOMER SW LICENSE
2100-4180	000	DW&A CONTRACTS NSS