

Application of SOUTHERN CALIFORNIA GAS)
COMPANY for authority to update its gas revenue)
requirement and base rates)
effective January 1, 2019 (U 904-G))

Application No. 17-10-___

Exhibit No.: (SCG-26-WP)

WORKPAPERS TO
PREPARED DIRECT TESTIMONY
OF CHRISTOPHER R. OLMSTED
ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

OCTOBER 2017



**2019 General Rate Case - APP
INDEX OF WORKPAPERS**

Exhibit SCG-26-WP - INFORMATION TECHNOLOGY

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Overall Summary For Exhibit No. SCG-26-WP

Area:	INFORMATION TECHNOLOGY
Witness:	Christopher R. Olmsted

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Non-Shared Services	13,962	16,928	19,679	21,077
Shared Services	10,626	11,150	11,850	11,850
Total	24,588	28,078	31,529	32,927

Note: Totals may include rounding differences.

Southern California Gas Company
 2019 GRC - APP
 Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted

Summary of Non-Shared Services Workpapers:

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
A. Applications	5,442	5,999	6,784	8,040
B. Infrastructure	8,368	10,390	12,256	14,677
C. IT Support	152	539	639	-1,640
Total	13,962	16,928	19,679	21,077

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Workpaper: 2IT001.000

Summary for Category: A. Applications

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	2,899	2,899	2,949	3,299
Non-Labor	2,543	2,547	2,751	3,406
NSE	0	553	1,084	1,335
Total	5,442	5,999	6,784	8,040
FTE	25.6	25.6	26.1	29.6

Workpapers belonging to this Category:

2IT001.000 IT Applications NSS

Labor	2,899	2,899	2,949	3,299
Non-Labor	2,543	2,547	2,751	3,406
NSE	0	553	1,084	1,335
Total	5,442	5,999	6,784	8,040
FTE	25.6	25.6	26.1	29.6

Note: Totals may include rounding differences.

Beginning of Workpaper
2IT001.000 - IT Applications NSS

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Workpaper: 2IT001.000 - IT Applications NSS

Activity Description:

The SoCalGas Non-Shared IT Applications costs represent labor and non-labor for systems where 100% of the activities directly support SoCalGas. The types of systems supported in this area include, but are not limited to, customer field operations, routing, scheduling and dispatching.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
		2012	2013	2014	2015	2016	2017	2018	2019	
Years										
	Labor	2,410	3,155	3,025	3,277	2,899	2,899	2,949	3,299	
	Non-Labor	644	819	730	2,740	2,543	2,546	2,750	3,405	
	NSE	0	0	0	0	0	553	1,084	1,335	
	Total	3,054	3,973	3,755	6,017	5,442	5,998	6,783	8,039	
	FTE	23.3	29.4	28.0	28.2	25.6	25.6	26.1	29.6	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Workpaper: 2IT001.000 - IT Applications NSS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	2,899	2,899	2,899	0	50	400	2,899	2,949	3,299
Non-Labor	Base YR Rec	2,543	2,543	2,543	4	208	863	2,547	2,751	3,406
NSE	Base YR Rec	0	0	0	553	1,084	1,335	553	1,084	1,335
Total		5,442	5,442	5,442	557	1,342	2,598	5,999	6,784	8,040
FTE	Base YR Rec	25.6	25.6	25.6	0.0	0.5	4.0	25.6	26.1	29.6

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	Other	0	0	553	553	0.0	1-Sided Adj	SOMAHONY20161204160243613	
Explanation:		Forecast for incremental O&M from capital projects for 2017							
2017	Other	0	4	0	4	0.0	1-Sided Adj	SOMAHONY20170310012149700	
Explanation:		Contract escalations and new contracts							
2017 Total		0	4	553	557	0.0			
2018	Other	0	0	1,084	1,084	0.0	1-Sided Adj	SOMAHONY20161204160258200	
Explanation:		Forecast for incremental O&M from capital projects for 2018							
2018	Other	0	8	0	8	0.0	1-Sided Adj	SOMAHONY20170310012213383	
Explanation:		Contract escalations and new contracts							
2018	Other	50	200	0	250	0.5	1-Sided Adj	SOMAHONY20170831143757897	
Explanation:		1 resource full time for half the year at \$100k for the CIS/Pacer replacement study. Non-labor is for 3rd party vendor to assist core project team.							
2018 Total		50	208	1,084	1,342	0.5			
2019	Other	400	850	0	1,250	4.0	1-Sided Adj	SOMAHONY20170831143906270	
Explanation:		4 resources full time at \$100k for the CIS/Pacer replacement study. Non-labor is for 3rd party vendor to assist core project team.							
2019	Other	0	0	1,335	1,335	0.0	1-Sided Adj	SOMAHONY20161204160310780	
Explanation:		Forecast for incremental O&M from capital projects for 2019							

Note: Totals may include rounding differences.

Southern California Gas Company
 2019 GRC - APP
 Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Workpaper: 2IT001.000 - IT Applications NSS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>	<u>RefID</u>
2019	Other	0	13	0	13	0.0	1-Sided Adj	SOMAHONY20170310012244573

Explanation: Contract escalations and new contracts

2019 Total		400	863	1,335	2,598	4.0		
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Workpaper: 2IT001.000 - IT Applications NSS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	15	2,527	2,480	2,753	2,566
Non-Labor	75	755	732	2,733	2,573
NSE	0	0	0	0	0
Total	90	3,282	3,212	5,486	5,138
FTE	0.1	25.2	24.0	24.2	22.8
Adjustments (Nominal \$) **					
Labor	1,901	-5	0	0	-76
Non-Labor	551	54	0	0	-30
NSE	0	0	0	0	0
Total	2,452	49	0	0	-106
FTE	20.0	0.0	0.0	0.0	-0.9
Recorded-Adjusted (Nominal \$)					
Labor	1,916	2,523	2,480	2,753	2,489
Non-Labor	626	809	732	2,733	2,543
NSE	0	0	0	0	0
Total	2,542	3,331	3,212	5,486	5,032
FTE	20.1	25.2	24.0	24.2	21.9
Vacation & Sick (Nominal \$)					
Labor	278	419	405	446	410
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	278	419	405	446	410
FTE	3.2	4.3	4.0	4.1	3.7
Escalation to 2016\$					
Labor	215	213	140	78	0
Non-Labor	18	10	-2	7	0
NSE	0	0	0	0	0
Total	234	223	138	85	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	2,410	3,155	3,025	3,277	2,899
Non-Labor	644	819	730	2,740	2,543
NSE	0	0	0	0	0
Total	3,054	3,973	3,755	6,017	5,442
FTE	23.3	29.5	28.0	28.3	25.6

* 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.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Workpaper: 2IT001.000 - IT Applications NSS

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	1,901	-5	0	0	-76
Non-Labor	551	54	0	0	-30
NSE	0	0	0	0	0
Total	2,452	49	0	0	-106
FTE	20.0	0.0	0.0	0.0	-0.9

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	1,315	436	0	14.1	CCTR Transf From 2100-3082.000	SOMAHONY20170308004818030
Explanation: SCG App Customer Info Systems costs transferred to 2200-2449.							
2012	Other	2	0	0	0.0	CCTR Transf From 2100-3083.000	SOMAHONY20170308010332967
Explanation: SCG Apps Field Services costs transferred to 2200-2450.							
2012	Other	470	45	0	4.8	CCTR Transf From 2100-3083.000	SOMAHONY20170308010406587
Explanation: SCG Apps Field Services costs transferred to 2200-2450.							
2012	Other	0	0	0	0.0	CCTR Transf From 2100-3082.000	SOMAHONY20170308001846647
Explanation: SCG App Customer Info Systems costs transferred to 2200-2449.							
2012	Other	92	56	0	0.9	CCTR Transf From 2100-3082.000	SOMAHONY20170308001925110
Explanation: SCG App Customer Info Systems costs transferred to 2200-2449.							
2012	Other	22	14	0	0.2	CCTR Transf From 2100-3082.000	SOMAHONY20170308001956170
Explanation: SCG App Customer Info Systems costs transferred to 2200-2449.							
2012 Total		1,901	551	0	20.0		

2013	Other	0	0	0	0.0	CCTR Transf From 2100-3082.000	SOMAHONY20170308005212250
Explanation: SCG App Customer Info Systems costs transferred to 2200-2449.							
2013	Other	-2	0	0	0.0	CCTR Transf From 2100-3083.000	SOMAHONY20170308010613283
Explanation: SCG Apps Field Services costs transferred to 2200-2450.							
2013	Other	-4	8	0	0.0	CCTR Transf From 2100-3082.000	SOMAHONY20170308005238393
Explanation: SCG App Customer Info Systems costs transferred to 2200-2449.							

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Workpaper: 2IT001.000 - IT Applications NSS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2013	Other	0	0	0	0.0	CCTR Transf From 2100-3082.000	SOMAHONY20170308005316337
Explanation: SCG App Customer Info Systems costs transferred to 2200-2449.							
2013	Other	2	46	0	0.0	CCTR Transf From 2100-3082.000	SOMAHONY20170308005350263
Explanation: SCG App Customer Info Systems costs transferred to 2200-2449.							
2013 Total		-5	54	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016	Aliso	-10	-15	0	-0.2	1-Sided Adj	SOMAHONY20170223170431240
Explanation: 2016 Aliso Canyon - Removing Productive Labor and Purchased Services							
2016	Aliso	0	0	0	-0.1	1-Sided Adj	SOMAHONY20170223170808563
Explanation: 2016 Aliso Canyon - Removing Productive Labor							
2016	Aliso	-10	-15	0	-0.1	1-Sided Adj	SOMAHONY20170223171025427
Explanation: 2016 Aliso Canyon - Removing Productive Labor and Purchased Services							
2016	Aliso	-55	0	0	-0.5	1-Sided Adj	SOMAHONY20170223172126203
Explanation: 2016 Aliso Canyon - Removing Productive and Overtime Labor							
2016 Total		-76	-30	0	-0.9		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Workpaper: 2IT002.000

Summary for Category: B. Infrastructure

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	3,263	3,676	3,776	3,876
Non-Labor	5,105	6,593	7,539	9,129
NSE	0	121	941	1,672
Total	8,368	10,390	12,256	14,677
FTE	30.3	34.4	35.4	36.4

Workpapers belonging to this Category:

2IT002.000 IT Infrastructure NSS

Labor	3,263	3,676	3,776	3,876
Non-Labor	5,105	6,593	7,539	9,129
NSE	0	121	941	1,672
Total	8,368	10,390	12,256	14,677
FTE	30.3	34.4	35.4	36.4

Note: Totals may include rounding differences.

Beginning of Workpaper
2IT002.000 - IT Infrastructure NSS

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Workpaper: 2IT002.000 - IT Infrastructure NSS

Activity Description:

The SoCalGas Non-Shared IT Infrastructure costs represent labor and non-labor for the infrastructure area where 100% of the activities are for SoCalGas. These costs are for IT-related infrastructure found at or providing service to SoCalGas facilities (e.g., operating bases and the contact center). SoCalGas non-shared IT Infrastructure activities include, but are not limited to, preventive maintenance, problem diagnosis and resolution, and service request processing and implementation.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		2,671	4,262	3,592	3,572	3,263	3,676	3,776	3,876	
Non-Labor		678	631	3,752	5,454	5,105	6,593	7,539	9,129	
NSE		0	0	0	0	0	121	941	1,672	
Total		3,350	4,893	7,344	9,027	8,368	10,390	12,256	14,677	
FTE		25.4	40.1	34.1	33.1	30.3	34.4	35.4	36.4	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Workpaper: 2IT002.000 - IT Infrastructure NSS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	3,263	3,263	3,263	413	513	613	3,676	3,776	3,876
Non-Labor	Base YR Rec	5,105	5,105	5,105	1,488	2,434	4,024	6,593	7,539	9,129
NSE	Base YR Rec	0	0	0	121	941	1,672	121	941	1,672
Total		8,368	8,368	8,368	2,022	3,888	6,309	10,390	12,256	14,677
FTE	Base YR Rec	30.3	30.3	30.3	4.1	5.1	6.1	34.4	35.4	36.4

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	Other	413	1,088	0	1,501	4.1	1-Sided Adj	SOMAHONY20170627192327737	
Explanation:		Operational Data Center/Infrastructure enhancements. FTE assumptions: salary \$100k, 100% O&M.							
2017	Other	0	0	121	121	0.0	1-Sided Adj	SOMAHONY20161204163105267	
Explanation:		Incremental O&M from capital projects for 2017							
2017	Other	0	400	0	400	0.0	1-Sided Adj	SOMAHONY20170310012850567	
Explanation:		\$400K technology Strategy Development Consulting in 2017							
2017 Total		413	1,488	121	2,022	4.1			
2018	Other	513	1,788	0	2,301	5.1	1-Sided Adj	SOMAHONY20170627192421880	
Explanation:		Operational Data Center/Infrastructure enhancements. FTE assumptions: salary \$100k, 100% O&M.							
2018	Other	0	0	941	941	0.0	1-Sided Adj	SOMAHONY20161204163035300	
Explanation:		Incremental O&M from capital projects for 2018							
2018	Other	0	646	0	646	0.0	1-Sided Adj	SOMAHONY20170511081411720	
Explanation:		Office 365 annual subscription							
2018 Total		513	2,434	941	3,888	5.1			
2019	Other	613	2,087	0	2,700	6.1	1-Sided Adj	SOMAHONY20170627192516550	
Explanation:		Operational Data Center/Infrastructure enhancements. FTE assumptions: salary \$100k, 100% O&M.							

Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Workpaper: 2IT002.000 - IT Infrastructure NSS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>	<u>RefID</u>
2019	Other	0	0	1,672	1,672	0.0	1-Sided Adj	SOMAHONY20161204163130423
Explanation:		Incremental O&M from capital projects for 2019						
2019	Other	0	1,937	0	1,937	0.0	1-Sided Adj	SOMAHONY20170511081517583
Explanation:		Office 365 annual subscription						
2019 Total		613	4,024	1,672	6,309	6.1		

Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Workpaper: 2IT002.000 - IT Infrastructure NSS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	1,825	2,943	2,710	2,644	2,629
Non-Labor	651	615	3,762	5,436	5,116
NSE	0	0	0	0	0
Total	2,475	3,558	6,472	8,080	7,745
FTE	19.2	30.2	27.0	25.0	24.4
Adjustments (Nominal \$) **					
Labor	272	465	235	357	173
Non-Labor	9	8	3	4	-11
NSE	0	0	0	0	0
Total	281	474	238	362	162
FTE	2.6	4.1	2.2	3.4	1.5
Recorded-Adjusted (Nominal \$)					
Labor	2,097	3,408	2,945	3,001	2,802
Non-Labor	659	623	3,764	5,440	5,105
NSE	0	0	0	0	0
Total	2,756	4,032	6,709	8,441	7,907
FTE	21.8	34.3	29.2	28.4	25.9
Vacation & Sick (Nominal \$)					
Labor	336	566	481	486	461
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	336	566	481	486	461
FTE	3.6	5.8	4.9	4.8	4.4
Escalation to 2016\$					
Labor	239	287	167	85	0
Non-Labor	19	8	-12	14	0
NSE	0	0	0	0	0
Total	258	295	154	100	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	2,671	4,262	3,592	3,572	3,263
Non-Labor	678	631	3,752	5,454	5,105
NSE	0	0	0	0	0
Total	3,350	4,893	7,344	9,027	8,368
FTE	25.4	40.1	34.1	33.2	30.3

* 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.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Workpaper: 2IT002.000 - IT Infrastructure NSS

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	272	465	235	357	173
Non-Labor	9	8	3	4	-11
NSE	0	0	0	0	0
Total	281	474	238	362	162
FTE	2.6	4.1	2.2	3.4	1.5

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	96	3	0	0.6	1-Sided Adj	SOMAHONY20170224105911070
Explanation: IT employee xfers from SDGE 1IT002 to SCG.							
2012	Other	176	6	0	2.0	CCTR Transf From 2200-2456.000	SHAO20170310144325197
Explanation: SCG Network Support costs move to cost center 2100-0619.							
2012 Total		272	9	0	2.6		
2013	Other	183	0	0	1.6	CCTR Transf From 2200-2456.000	SHAO20170310144525283
Explanation: SCG Network Support costs move to cost center 2100-0619.							
2013	Other	282	8	0	2.5	CCTR Transf From 2200-2460.000	SHAO20170308141210583
Explanation: Voice enterprise support costs move to cost center 2200-2395. Cost center 2200-2460 has been retired.							
2013	Other	0	0	0	0.0	CCTR Transf From 2200-2460.000	SHAO20170308141330677
Explanation: Voice enterprise support costs move to cost center 2200-2395. Cost center 2200-2460 has been retired.							
2013 Total		465	8	0	4.1		
2014	Other	235	3	0	2.2	CCTR Transf From 2200-2456.000	SHAO20170310145000593
Explanation: SCG Network Support costs move to cost center 2100-0619.							
2014 Total		235	3	0	2.2		
2015	Other	358	5	0	3.4	CCTR Transf From 2200-2456.000	SHAO20170310145319367
Explanation: SCG Network Support costs move to cost center 2100-0619.							

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Workpaper: 2IT002.000 - IT Infrastructure NSS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2015	Aliso	-1	0	0	0.0	1-Sided Adj	SOMAHONY20170223185647060
Explanation: 2015 Aliso Canyon - Removing Productive Labor							
2015	Aliso	0	-1	0	0.0	1-Sided Adj	SOMAHONY20170223185918077
Explanation: 2015 Aliso Canyon - Removing Hardware							
2015 Total		357	4	0	3.4		
2016	Other	0	0	0	0.0	CCTR Transf From 2200-2456.000	SHAO20170310145607900
Explanation: SCG Network Support costs move to cost center 2100-0619.							
2016	Aliso	-2	-11	0	-0.1	1-Sided Adj	SOMAHONY20170223173138317
Explanation: 2016 Aliso Canyon - Removing Productive Labor and Hardware							
2016	Other	175	0	0	1.6	CCTR Transf From 2200-2456.000	SHAO20170310145513390
Explanation: SCG Network Support costs move to cost center 2100-0619.							
2016	Aliso	0	0	0	0.0	1-Sided Adj	SOMAHONY20170511104629553
Explanation: Aliso Canyon Non-labor adjustment							
2016 Total		173	-11	0	1.5		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: C. IT Support
Workpaper: 2IT003.000

Summary for Category: C. IT Support

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	84	285	247	247
Non-Labor	68	-302	-1,701	-3,277
NSE	0	556	2,093	1,390
Total	152	539	639	-1,640
FTE	1.0	1.0	1.0	1.0

Workpapers belonging to this Category:

2IT003.000 IT Support NSS

Labor	84	285	247	247
Non-Labor	68	-302	-1,701	-3,277
NSE	0	556	2,093	1,390
Total	152	539	639	-1,640
FTE	1.0	1.0	1.0	1.0

Note: Totals may include rounding differences.

Beginning of Workpaper
2IT003.000 - IT Support NSS

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. IT Support
 Category-Sub: 1. IT Support
 Workpaper: 2IT003.000 - IT Support NSS

Activity Description:

The costs in SoCalGas Non-Shared IT Support cover non-labor expenses recorded by the Vice President of IT along with costs and savings associated with IT's FoF initiatives.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
		2012	2013	2014	2015	2016	2017	2018	2019	
Years										
	Labor	47	19	211	40	84	286	248	248	
	Non-Labor	953	24	163	119	68	-302	-1,701	-3,277	
	NSE	0	0	0	0	0	556	2,093	1,390	
	Total	1,000	43	374	159	152	540	640	-1,639	
	FTE	0.6	0.1	2.1	0.5	0.9	1.0	1.0	1.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: C. IT Support
Category-Sub: 1. IT Support
Workpaper: 2IT003.000 - IT Support NSS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	84	84	84	201	163	163	285	247	247
Non-Labor	Base YR Rec	68	68	68	-370	-1,769	-3,345	-302	-1,701	-3,277
NSE	Base YR Rec	0	0	0	556	2,093	1,390	556	2,093	1,390
Total		152	152	152	387	487	-1,792	539	639	-1,640
FTE	Base YR Rec	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	FOF-Implementation	0	0	556	556	0.0	1-Sided Adj	SOMAHONY20170628152744387	
Explanation:		FOF Implementation Costs							
2017	FOF-Ongoing	201	-186	0	15	0.0	1-Sided Adj	SOMAHONY20170628152907970	
Explanation:		FOF Ongoing Costs							
2017	FOF-Ongoing	0	-184	0	-184	0.0	1-Sided Adj	SOMAHONY20170719155536713	
Explanation:		FoF Group 101 benefits related to contracting/procurement efficiencies							
2017 Total		201	-370	556	387	0.0			
2018	FOF-Implementation	0	0	2,093	2,093	0.0	1-Sided Adj	SOMAHONY20170628152758010	
Explanation:		FOF Implementation Costs							
2018	FOF-Ongoing	163	-1,231	0	-1,068	0.0	1-Sided Adj	SOMAHONY20170628152937080	
Explanation:		FOF Ongoing Costs							
2018	FOF-Ongoing	0	-538	0	-538	0.0	1-Sided Adj	SOMAHONY2017071915555060	
Explanation:		FoF Group 101 benefits related to contracting/procurement efficiencies							
2018 Total		163	-1,769	2,093	487	0.0			
2019	FOF-Implementation	0	0	1,390	1,390	0.0	1-Sided Adj	SOMAHONY20170628152811480	
Explanation:		FOF Implementation Costs							

Note: Totals may include rounding differences.

Southern California Gas Company
 2019 GRC - APP
 Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. IT Support
 Category-Sub: 1. IT Support
 Workpaper: 2IT003.000 - IT Support NSS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>	<u>RefID</u>
2019	FOF-Ongoing	163	-2,788	0	-2,625	0.0	1-Sided Adj	SOMAHONY20170628153006360
Explanation:		FOF Ongoing Costs						
2019	FOF-Ongoing	0	-557	0	-557	0.0	1-Sided Adj	SOMAHONY20170719155608953
Explanation:		FoF Group 101 benefits related to contracting/procurement efficiencies						
2019 Total		163	-3,345	1,390	-1,792	0.0		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: C. IT Support
Category-Sub: 1. IT Support
Workpaper: 2IT003.000 - IT Support NSS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	37	15	173	33	73
Non-Labor	926	24	164	119	68
NSE	0	0	0	0	0
Total	963	39	337	152	140
FTE	0.5	0.1	1.8	0.4	0.8
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	37	15	173	33	73
Non-Labor	926	24	164	119	68
NSE	0	0	0	0	0
Total	963	39	337	152	140
FTE	0.5	0.1	1.8	0.4	0.8
Vacation & Sick (Nominal \$)					
Labor	6	2	28	5	12
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	6	2	28	5	12
FTE	0.1	0.0	0.3	0.1	0.1
Escalation to 2016\$					
Labor	4	1	10	1	0
Non-Labor	27	0	-1	0	0
NSE	0	0	0	0	0
Total	31	2	9	1	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	47	19	211	40	84
Non-Labor	953	24	163	119	68
NSE	0	0	0	0	0
Total	1,000	43	374	159	152
FTE	0.6	0.1	2.1	0.5	0.9

* 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.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. IT Support
 Category-Sub: 1. IT Support
 Workpaper: 2IT003.000 - IT Support NSS

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0.045
NSE	0	0	0	0	0
Total	0	0	0	0	0.045
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016	Aliso	0	0	0	0.0	1-Sided Adj	SOMAHONY20170511104744450
2016 Total		0	0	0	0.0		

Explanation: Aliso Canyon Non-labor adjustment

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted

Summary of Shared Services Workpapers:

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
A. Applications	5,115	5,460	6,160	6,160
B. Infrastructure	5,153	5,332	5,332	5,332
C. IT Support	358	358	358	358
Total	10,626	11,150	11,850	11,850

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Cost Center: VARIOUS

Summary for Category: A. Applications

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	4,022	4,230	4,880	4,880
Non-Labor	1,093	1,230	1,280	1,280
NSE	0	0	0	0
Total	5,115	5,460	6,160	6,160
FTE	34.7	36.3	41.3	41.3

Cost Centers belonging to this Category:

2200-2418.000 DIRECTOR - SCG APPLICATIONS SERVICES

Labor	205	413	1,063	1,063
Non-Labor	8	145	195	195
NSE	0	0	0	0
Total	213	558	1,258	1,258
FTE	1.1	2.7	7.7	7.7

2200-2444.000 SCG SUPPLY CHAIN SERVICES

Labor	170	170	170	170
Non-Labor	61	61	61	61
NSE	0	0	0	0
Total	231	231	231	231
FTE	1.6	1.6	1.6	1.6

2200-2445.000 SCG WORK MANAGEMENT SERVICES

Labor	1,138	1,138	1,138	1,138
Non-Labor	75	75	75	75
NSE	0	0	0	0
Total	1,213	1,213	1,213	1,213
FTE	10.5	10.5	10.5	10.5

2200-2446.000 SCG GIS & CAD SERVICES

Labor	159	159	159	159
Non-Labor	13	13	13	13
NSE	0	0	0	0
Total	172	172	172	172
FTE	1.4	1.4	1.4	1.4

2200-2447.000 SCG SOFTWARE DEV - DATABASE

Labor	553	553	553	553
Non-Labor	18	18	18	18
NSE	0	0	0	0
Total	571	571	571	571
FTE	4.4	4.4	4.4	4.4

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Cost Center: VARIOUS

In 2016\$ (000) Incurred Costs			
Adjusted-Recorded	Adjusted-Forecast		
2016	2017	2018	2019

2200-2451.000 SCG APPS MAJ MRK APP - SCG

Labor	889	889	889	889
Non-Labor	560	560	560	560
NSE	0	0	0	0
Total	1,449	1,449	1,449	1,449
FTE	7.7	7.7	7.7	7.7

2200-2470.000 SCG IT COMPLIANCE MANAGEMENT

Labor	554	554	554	554
Non-Labor	143	143	143	143
NSE	0	0	0	0
Total	697	697	697	697
FTE	4.8	4.8	4.8	4.8

2200-2503.000 ARCHITECTURE AND INTEGRATION - SCG

Labor	314	314	314	314
Non-Labor	214	214	214	214
NSE	0	0	0	0
Total	528	528	528	528
FTE	2.9	2.9	2.9	2.9

2200-2596.000 SCG IT QUALITY ASSURANCE

Labor	40	40	40	40
Non-Labor	1	1	1	1
NSE	0	0	0	0
Total	41	41	41	41
FTE	0.3	0.3	0.3	0.3

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2418.000 - DIRECTOR - SCG APPLICATIONS SERVICES

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2418.000 - DIRECTOR - SCG APPLICATIONS SERVICES

Activity Description:

This cost center is for the support of SCG IT applications. This is a director cost center.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		136	198	201	202	205	413	1,063	1,063	
Non-Labor		173	18	41	15	8	145	195	195	
NSE		0	0	0	0	0	0	0	0	
Total		309	217	242	217	213	558	1,258	1,258	
FTE		0.8	1.2	1.2	1.2	1.2	2.7	7.7	7.7	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2418.000 - DIRECTOR - SCG APPLICATIONS SERVICES

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	205	8	0	213	1.1	413	145	0	558	2.7
Total Incurred	205	8	0	213	1.1	413	145	0	558	2.7
% Allocation										
Retained	81.13%	81.13%				78.17%	78.17%			
SEU	15.15%	15.15%				17.46%	17.46%			
CORP	1.73%	1.73%				1.99%	1.99%			
Unreg	1.99%	1.99%				2.38%	2.38%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	1,063	195	0	1,258	7.7	1,063	195	0	1,258	7.7
Total Incurred	1,063	195	0	1,258	7.7	1,063	195	0	1,258	7.7
% Allocation										
Retained	78.17%	78.17%				78.17%	78.17%			
SEU	17.46%	17.46%				17.46%	17.46%			
CORP	1.99%	1.99%				1.99%	1.99%			
Unreg	2.38%	2.38%				2.38%	2.38%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2418.000 - DIRECTOR - SCG APPLICATIONS SERVICES

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The weighted average of all Dept. cost centers Shared Service Allocations was taken of all cost centers under the IT SCG Application department. The weighted average of all Dept. cost centers Shared Service Allocations reflects the level of support provided to each affiliate by this cost center.

Cost Center Allocation Percentage for 2017

The weighted average of all Dept. cost centers Shared Service Allocations was taken of all cost centers under the IT SCG Application department. The weighted average of all Dept. cost centers Shared Service Allocations reflects the level of support provided to each affiliate by this cost center.

Cost Center Allocation Percentage for 2018

The weighted average of all Dept. cost centers Shared Service Allocations was taken of all cost centers under the IT SCG Application department. The weighted average of all Dept. cost centers Shared Service Allocations reflects the level of support provided to each affiliate by this cost center.

Cost Center Allocation Percentage for 2019

The weighted average of all Dept. cost centers Shared Service Allocations was taken of all cost centers under the IT SCG Application department. The weighted average of all Dept. cost centers Shared Service Allocations reflects the level of support provided to each affiliate by this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2418.000 - DIRECTOR - SCG APPLICATIONS SERVICES

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	205	205	205	208	858	858	413	1,063	1,063
Non-Labor	Base YR Rec	8	8	8	137	187	187	145	195	195
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		213	213	213	345	1,045	1,045	558	1,258	1,258
FTE	Base YR Rec	1.1	1.1	1.1	1.6	6.6	6.6	2.7	7.7	7.7

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	Other	208	20	0	228	1.6	1-Sided Adj	SOMAHONY20161121133940960	
Explanation:		Adding 2 FTEs SCG Business MyAccount. Assumes 80% O&C and \$130k average salary plus \$10k per employee for non-labor costs.							
2017	Other	0	117	0	117	0.0	1-Sided Adj	SOMAHONY20170511100817250	
Explanation:		\$117k for additional UST resources for My Account and Major Markets.							
2017 Total		208	137	0	345	1.6			
2018	Other	208	20	0	228	1.6	1-Sided Adj	SOMAHONY20161121134119803	
Explanation:		Adding 2 FTEs SCG Business MyAccount. Assumes 80% O&C and \$130k average salary plus \$10k per employee for non-labor costs.							
2018	Other	650	50	0	700	5.0	1-Sided Adj	SOMAHONY20161129102958930	
Explanation:		5 Advanced Meter FTEs move to IT in 2018. 100% O&C \$130k average salary and \$10k non-labor per employee.							
2018	Other	0	117	0	117	0.0	1-Sided Adj	SOMAHONY20170511100845277	
Explanation:		\$117k for additional UST resources for My Account and Major Markets.							
2018 Total		858	187	0	1,045	6.6			
2019	Other	208	20	0	228	1.6	1-Sided Adj	SOMAHONY20161121134137823	
Explanation:		Adding 2 FTEs SCG Business MyAccount. Assumes 80% O&C and \$130k average salary plus \$10k per employee for non-labor costs.							

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2418.000 - DIRECTOR - SCG APPLICATIONS SERVICES

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>	<u>RefID</u>
2019	Other	650	50	0	700	5.0	1-Sided Adj	SOMAHONY20161129103050380
Explanation:		5 Advanced Meter FTEs move to IT in 2018. 100% O&C \$130k average salary and \$10k non-labor per employee.						
2019	Other	0	117	0	117	0.0	1-Sided Adj	SOMAHONY20170511100901270
Explanation:		\$117k for additional UST resources for My Account and Major Markets.						
2019 Total		858	187	0	1,045	6.6		

Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2418.000 - DIRECTOR - SCG APPLICATIONS SERVICES

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	110	163	169	171	176
Non-Labor	164	18	40	15	8
NSE	0	0	0	0	0
Total	274	181	209	187	184
FTE	0.7	1.0	1.0	1.0	1.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	110	163	169	171	176
Non-Labor	164	18	40	15	8
NSE	0	0	0	0	0
Total	274	181	209	187	184
FTE	0.7	1.0	1.0	1.0	1.0
Vacation & Sick (Nominal \$)					
Labor	18	27	28	28	29
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	18	27	28	28	29
FTE	0.1	0.2	0.2	0.2	0.2
Escalation to 2016\$					
Labor	8	8	4	2	0
Non-Labor	10	1	1	0	0
NSE	0	0	0	0	0
Total	17	8	5	3	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	136	198	201	202	205
Non-Labor	173	18	41	15	8
NSE	0	0	0	0	0
Total	309	217	242	217	213
FTE	0.8	1.2	1.2	1.2	1.2

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2418.000 - DIRECTOR - SCG APPLICATIONS SERVICES

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2444.000 - SCG SUPPLY CHAIN SERVICES

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2444.000 - SCG SUPPLY CHAIN SERVICES

Activity Description:

This cost center supports system-wide Supply Chain & Logistics Applications for the Utilities and Corporate Center.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years	2012	2013	2014	2015	2016	2017	2018	2019		
Labor	0	349	316	359	170	170	170	170		
Non-Labor	0	9	69	18	61	62	62	62		
NSE	0	0	0	0	0	0	0	0		
Total	0	358	386	377	231	232	232	232		
FTE	0.0	3.5	3.0	2.0	1.6	1.6	1.6	1.6		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2444.000 - SCG SUPPLY CHAIN SERVICES

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 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.	170	61	0	231	1.6	170	61	0	231	1.6
Total Incurred	170	62	0	232	1.6	170	62	0	232	1.6
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 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.	170	61	0	231	1.6	170	61	0	231	1.6
Total Incurred	170	62	0	232	1.6	170	62	0	232	1.6
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2444.000 - SCG SUPPLY CHAIN SERVICES

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

This cost center provides software development services for all SDGE, SCG and parent employees. Using LAN login ID counts for each respective company accurately determines the use of services by each company.

Cost Center Allocation Percentage for 2017

This cost center provides software development services for all SDGE, SCG and parent employees. Using LAN login ID counts for each respective company accurately determines the use of services by each company.

Cost Center Allocation Percentage for 2018

This cost center provides software development services for all SDGE, SCG and parent employees. Using LAN login ID counts for each respective company accurately determines the use of services by each company.

Cost Center Allocation Percentage for 2019

This cost center provides software development services for all SDGE, SCG and parent employees. Using LAN login ID counts for each respective company accurately determines the use of services by each company.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2444.000 - SCG SUPPLY CHAIN SERVICES

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	170	170	170	0	0	0	170	170	170
Non-Labor	Base YR Rec	61	61	61	0	0	0	61	61	61
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		231	231	231	0	0	0	231	231	231
FTE	Base YR Rec	1.6	1.6	1.6	0.0	0.0	0.0	1.6	1.6	1.6

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2444.000 - SCG SUPPLY CHAIN SERVICES

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	287	266	305	146
Non-Labor	0	9	68	18	61
NSE	0	0	0	0	0
Total	0	296	334	323	207
FTE	0.0	3.0	2.6	1.6	1.4
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	287	266	305	146
Non-Labor	0	9	68	18	61
NSE	0	0	0	0	0
Total	0	296	334	323	207
FTE	0.0	3.0	2.6	1.6	1.4
Vacation & Sick (Nominal \$)					
Labor	0	48	43	49	24
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	48	43	49	24
FTE	0.0	0.5	0.4	0.3	0.2
Escalation to 2016\$					
Labor	0	13	7	4	0
Non-Labor	0	0	2	0	0
NSE	0	0	0	0	0
Total	0	14	8	5	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	349	316	359	170
Non-Labor	0	9	69	18	61
NSE	0	0	0	0	0
Total	0	358	386	377	231
FTE	0.0	3.5	3.0	1.9	1.6

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2444.000 - SCG SUPPLY CHAIN SERVICES

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2445.000 - SCG WORK MANAGEMENT SERVICES

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2445.000 - SCG WORK MANAGEMENT SERVICES

Activity Description:

This cost center represents support services for a broad range of client organizations, including: Gas Operations / Distribution, Construction, Generation and Environmental Services. The application services are based on several enterprise systems, including: SAP Plant Maintenance and Click Field Force, and CMS/NBMS.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		1,009	1,049	1,001	1,091	1,138	1,138	1,138	1,138	
Non-Labor		38	169	135	52	75	75	75	75	
NSE		0	0	0	0	0	0	0	0	
Total		1,048	1,218	1,135	1,142	1,213	1,213	1,213	1,213	
FTE		9.3	9.8	9.0	10.0	10.5	10.5	10.5	10.5	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2445.000 - SCG WORK MANAGEMENT SERVICES

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	3	0	3	0.0	0	3	0	3	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	1,138	72	0	1,210	10.5	1,138	72	0	1,210	10.5
Total Incurred	1,138	75	0	1,213	10.5	1,138	75	0	1,213	10.5
% Allocation										
Retained	66.73%	66.73%				55.81%	55.81%			
SEU	33.27%	33.27%				44.19%	44.19%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	3	0	3	0.0	0	3	0	3	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	1,138	72	0	1,210	10.5	1,138	72	0	1,210	10.5
Total Incurred	1,138	75	0	1,213	10.5	1,138	75	0	1,213	10.5
% Allocation										
Retained	55.81%	55.81%				55.81%	55.81%			
SEU	44.19%	44.19%				44.19%	44.19%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2445.000 - SCG WORK MANAGEMENT SERVICES

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Allocations are based on a labor study of applications that will be supported by this cost center. FTE requirements are then assigned and using an average labor cost for Shared Apps, a total support cost for each application is derived. The applications are spilt across BU's based on assumptions. A labor study of applications used by this cost center is appropriate as it defines how the resources in the department will be allocated.

Cost Center Allocation Percentage for 2017

Allocations are based on a labor study of applications that will be supported by this cost center. FTE requirements are then assigned and using an average labor cost for Shared Apps, a total support cost for each application is derived. The applications are spilt across BU's based on assumptions. A labor study of applications used by this cost center is appropriate as it defines how the resources in the department will be allocated.

Cost Center Allocation Percentage for 2018

Allocations are based on a labor study of applications that will be supported by this cost center. FTE requirements are then assigned and using an average labor cost for Shared Apps, a total support cost for each application is derived. The applications are spilt across BU's based on assumptions. A labor study of applications used by this cost center is appropriate as it defines how the resources in the department will be allocated.

Cost Center Allocation Percentage for 2019

Allocations are based on a labor study of applications that will be supported by this cost center. FTE requirements are then assigned and using an average labor cost for Shared Apps, a total support cost for each application is derived. The applications are spilt across BU's based on assumptions. A labor study of applications used by this cost center is appropriate as it defines how the resources in the department will be allocated.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2445.000 - SCG WORK MANAGEMENT SERVICES

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	1,138	1,138	1,138	0	0	0	1,138	1,138	1,138
Non-Labor	Base YR Rec	75	75	75	0	0	0	75	75	75
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		1,213	1,213	1,213	0	0	0	1,213	1,213	1,213
FTE	Base YR Rec	10.5	10.5	10.5	0.0	0.0	0.0	10.5	10.5	10.5

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2445.000 - SCG WORK MANAGEMENT SERVICES

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	864	841	927	977
Non-Labor	0	163	132	51	75
NSE	0	0	0	0	0
Total	0	1,027	973	978	1,052
FTE	0.0	8.4	7.7	8.6	9.0
Adjustments (Nominal \$) **					
Labor	821	0	0	0	0
Non-Labor	36	0	0	0	0
NSE	0	0	0	0	0
Total	857	0	0	0	0
FTE	8.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	821	864	841	927	977
Non-Labor	36	163	132	51	75
NSE	0	0	0	0	0
Total	857	1,027	973	978	1,052
FTE	8.0	8.4	7.7	8.6	9.0
Vacation & Sick (Nominal \$)					
Labor	131	144	137	150	161
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	131	144	137	150	161
FTE	1.3	1.4	1.3	1.4	1.5
Escalation to 2016\$					
Labor	57	40	22	14	0
Non-Labor	2	7	3	1	0
NSE	0	0	0	0	0
Total	59	47	25	14	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	1,009	1,049	1,001	1,091	1,138
Non-Labor	38	169	135	52	75
NSE	0	0	0	0	0
Total	1,048	1,218	1,135	1,142	1,213
FTE	9.3	9.8	9.0	10.0	10.5

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2445.000 - SCG WORK MANAGEMENT SERVICES

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	821	0	0	0	0
Non-Labor	36	0	0	0	0
NSE	0	0	0	0	0
Total	857	0	0	0	0
FTE	8.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	821	36	0	8.0	CCTR Transf From 2100-3088.000	SOMAHONY20161104163356100

Explanation: IT Employee Transfer from SDGE to SCG as of 2013.

2012 Total		821	36	0	8.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2446.000 - SCG GIS & CAD SERVICES

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2446.000 - SCG GIS & CAD SERVICES

Activity Description:

This cost center supports GIS Applications services for Gas at both SDGE & SCG.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	304	252	335	159	159	159	159	
Non-Labor		0	21	55	-2	13	13	13	13	
NSE		0	0	0	0	0	0	0	0	
Total		0	324	307	333	171	172	172	172	
FTE		0.0	2.8	2.3	2.9	1.4	1.4	1.4	1.4	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2446.000 - SCG GIS & CAD SERVICES

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	159	13	0	172	1.4	159	13	0	172	1.4
Total Incurred	159	13	0	172	1.4	159	13	0	172	1.4
% Allocation										
Retained	86.19%	86.19%				85.35%	85.35%			
SEU	13.81%	13.81%				14.65%	14.65%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	159	13	0	172	1.4	159	13	0	172	1.4
Total Incurred	159	13	0	172	1.4	159	13	0	172	1.4
% Allocation										
Retained	85.35%	85.35%				85.35%	85.35%			
SEU	14.65%	14.65%				14.65%	14.65%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2446.000 - SCG GIS & CAD SERVICES

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

For 2016 the allocations for supporting the enterprise GIS application was reviewed and a methodology using miles of pipe and wires for each Company was determined to be most relevant. This methodology was reviewed and approved by IT and the primary business owners of both Companies.

Cost Center Allocation Percentage for 2017

The allocations for supporting the enterprise GIS application was reviewed and a methodology using miles of pipe and wires for each Company was determined to be most relevant. This methodology was reviewed and approved by IT and the primary business owners of both Companies.

Cost Center Allocation Percentage for 2018

The allocations for supporting the enterprise GIS application was reviewed and a methodology using miles of pipe and wires for each Company was determined to be most relevant. This methodology was reviewed and approved by IT and the primary business owners of both Companies.

Cost Center Allocation Percentage for 2019

The allocations for supporting the enterprise GIS application was reviewed and a methodology using miles of pipe and wires for each Company was determined to be most relevant. This methodology was reviewed and approved by IT and the primary business owners of both Companies.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2446.000 - SCG GIS & CAD SERVICES

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	159	159	159	0	0	0	159	159	159
Non-Labor	Base YR Rec	13	13	13	0	0	0	13	13	13
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		171	171	171	0	0	0	171	171	171
FTE	Base YR Rec	1.4	1.4	1.4	0.0	0.0	0.0	1.4	1.4	1.4

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2446.000 - SCG GIS & CAD SERVICES

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	250	212	285	136
Non-Labor	0	20	54	-2	13
NSE	0	0	0	0	0
Total	0	270	265	282	149
FTE	0.0	2.4	2.0	2.5	1.2
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	250	212	285	136
Non-Labor	0	20	54	-2	13
NSE	0	0	0	0	0
Total	0	270	265	282	149
FTE	0.0	2.4	2.0	2.5	1.2
Vacation & Sick (Nominal \$)					
Labor	0	42	35	46	22
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	42	35	46	22
FTE	0.0	0.4	0.3	0.4	0.2
Escalation to 2016\$					
Labor	0	12	5	4	0
Non-Labor	0	1	1	0	0
NSE	0	0	0	0	0
Total	0	13	7	4	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	304	252	335	159
Non-Labor	0	21	55	-2	13
NSE	0	0	0	0	0
Total	0	324	307	333	171
FTE	0.0	2.8	2.3	2.9	1.4

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2446.000 - SCG GIS & CAD SERVICES

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2447.000 - SCG SOFTWARE DEV - DATABASE

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2447.000 - SCG SOFTWARE DEV - DATABASE

Activity Description:

This cost center provides maintenance and enhancement support for system wide database administration.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		907	949	1,053	951	553	553	553	553	
Non-Labor		32	73	3	6	18	18	18	18	
NSE		0	0	0	0	0	0	0	0	
Total		939	1,021	1,055	958	572	571	571	571	
FTE		7.0	7.5	8.4	6.3	4.3	4.4	4.4	4.4	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2447.000 - SCG SOFTWARE DEV - DATABASE

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	553	18	0	571	4.4	553	18	0	571	4.4
Total Incurred	553	18	0	571	4.4	553	18	0	571	4.4
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	553	18	0	571	4.4	553	18	0	571	4.4
Total Incurred	553	18	0	571	4.4	553	18	0	571	4.4
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2447.000 - SCG SOFTWARE DEV - DATABASE

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	553	553	553	0	0	0	553	553	553
Non-Labor	Base YR Rec	18	18	18	0	0	0	18	18	18
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		572	572	572	0	0	0	572	572	572
FTE	Base YR Rec	4.4	4.4	4.4	0.0	0.0	0.0	4.4	4.4	4.4

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2447.000 - SCG SOFTWARE DEV - DATABASE

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	782	885	809	475
Non-Labor	0	70	3	6	18
NSE	0	0	0	0	0
Total	0	852	888	815	493
FTE	0.0	6.4	7.2	5.4	3.7
Adjustments (Nominal \$) **					
Labor	738	0	0	0	0
Non-Labor	30	0	0	0	0
NSE	0	0	0	0	0
Total	768	0	0	0	0
FTE	6.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	738	782	885	809	475
Non-Labor	30	70	3	6	18
NSE	0	0	0	0	0
Total	768	852	888	815	493
FTE	6.0	6.4	7.2	5.4	3.7
Vacation & Sick (Nominal \$)					
Labor	118	130	144	131	78
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	118	130	144	131	78
FTE	1.0	1.1	1.2	0.9	0.6
Escalation to 2016\$					
Labor	51	37	23	12	0
Non-Labor	2	3	0	0	0
NSE	0	0	0	0	0
Total	53	39	23	12	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	907	949	1,053	951	553
Non-Labor	32	73	3	6	18
NSE	0	0	0	0	0
Total	939	1,021	1,055	958	572
FTE	7.0	7.5	8.4	6.3	4.3

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2447.000 - SCG SOFTWARE DEV - DATABASE

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	738	0	0	0	0
Non-Labor	30	0	0	0	0
NSE	0	0	0	0	0
Total	768	0	0	0	0
FTE	6.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	738	30	0	6.0	CCTR Transf From 2100-3091.000	SOMAHONY20161104164059697

Explanation: IT Employee Transfer from SDGE to SCG as of 2013.

2012 Total		738	30	0	6.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2451.000 - SCG APPS MAJ MRK APP - SCG

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2451.000 - SCG APPS MAJ MRK APP - SCG

Activity Description:

Maintenance and enhancement programming support of contract, gas flow, measurement collection, and billing functions of MCS, ENVOY, SCBS, CCS, and CAT.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		1,710	1,200	882	874	889	889	889	889	
Non-Labor		834	217	486	697	560	560	560	560	
NSE		0	0	0	0	0	0	0	0	
Total		2,543	1,416	1,368	1,571	1,449	1,449	1,449	1,449	
FTE		15.5	11.0	7.7	7.8	7.7	7.7	7.7	7.7	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2451.000 - SCG APPS MAJ MRK APP - SCG

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	889	560	0	1,449	7.7	889	560	0	1,449	7.7
Total Incurred	889	560	0	1,449	7.7	889	560	0	1,449	7.7
% Allocation										
Retained	99.21%	99.21%				99.21%	99.21%			
SEU	0.79%	0.79%				0.79%	0.79%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	889	560	0	1,449	7.7	889	560	0	1,449	7.7
Total Incurred	889	560	0	1,449	7.7	889	560	0	1,449	7.7
% Allocation										
Retained	99.21%	99.21%				99.21%	99.21%			
SEU	0.79%	0.79%				0.79%	0.79%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2451.000 - SCG APPS MAJ MRK APP - SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The allocations are calculated by application systems (MCS ENVOY, SCBS, CCS, and CAT) supported by this cost center and based on the number of 2016 employee labor and contractor-agency FTEs supporting the systems. These FTE numbers by system are then multiplied by the affiliate percentages assigned to each system. These amounts are totaled by affiliate and a weighted-average is calculated for each affiliate. SCBS, CCS, and CAT are used by SCG employees for SCG customers. Envoy and MCS are used primarily by SCG, but can be accessed by SDG&E.

Cost Center Allocation Percentage for 2017

The allocations are calculated by application systems (MCS ENVOY, SCBS, CCS, and CAT) supported by this cost center and based on the number of 2017 employee labor and contractor-agency FTEs supporting the systems. These FTE numbers by system are then multiplied by the affiliate percentages assigned to each system. These amounts are totaled by affiliate and a weighted-average is calculated for each affiliate. SCBS, CCS, and CAT are used by SCG employees for SCG customers. Envoy and MCS are used primarily by SCG, but can be accessed by SDG&E.

Cost Center Allocation Percentage for 2018

The allocations are calculated by application systems (MCS ENVOY, SCBS, CCS, and CAT) supported by this cost center and based on the number of 2017 employee labor and contractor-agency FTEs supporting the systems. These FTE numbers by system are then multiplied by the affiliate percentages assigned to each system. These amounts are totaled by affiliate and a weighted-average is calculated for each affiliate. SCBS, CCS, and CAT are used by SCG employees for SCG customers. Envoy and MCS are used primarily by SCG, but can be accessed by SDG&E.

Cost Center Allocation Percentage for 2019

The allocations are calculated by application systems (MCS ENVOY, SCBS, CCS, and CAT) supported by this cost center and based on the number of 2017 employee labor and contractor-agency FTEs supporting the systems. These FTE numbers by system are then multiplied by the affiliate percentages assigned to each system. These amounts are totaled by affiliate and a weighted-average is calculated for each affiliate. SCBS, CCS, and CAT are used by SCG employees for SCG customers. Envoy and MCS are used primarily by SCG, but can be accessed by SDG&E.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2451.000 - SCG APPS MAJ MRK APP - SCG

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	889	889	889	0	0	0	889	889	889
Non-Labor	Base YR Rec	560	560	560	0	0	0	560	560	560
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		1,449	1,449	1,449	0	0	0	1,449	1,449	1,449
FTE	Base YR Rec	7.7	7.7	7.7	0.0	0.0	0.0	7.7	7.7	7.7

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2451.000 - SCG APPS MAJ MRK APP - SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	991	742	743	764
Non-Labor	0	181	475	688	560
NSE	0	0	0	0	0
Total	0	1,173	1,217	1,431	1,323
FTE	0.0	9.3	6.6	6.7	6.6
Adjustments (Nominal \$) **					
Labor	1,409	-2	0	0	0
Non-Labor	787	27	0	0	0
NSE	0	0	0	0	0
Total	2,195	25	0	0	0
FTE	13.3	0.1	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	1,409	989	742	743	764
Non-Labor	787	208	475	688	560
NSE	0	0	0	0	0
Total	2,195	1,197	1,217	1,431	1,323
FTE	13.3	9.4	6.6	6.7	6.6
Vacation & Sick (Nominal \$)					
Labor	204	164	121	120	126
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	204	164	121	120	126
FTE	2.1	1.6	1.1	1.1	1.1
Escalation to 2016\$					
Labor	97	46	19	11	0
Non-Labor	47	8	11	9	0
NSE	0	0	0	0	0
Total	144	55	30	19	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	1,710	1,200	882	874	889
Non-Labor	834	217	486	697	560
NSE	0	0	0	0	0
Total	2,543	1,416	1,368	1,571	1,449
FTE	15.4	11.0	7.7	7.8	7.7

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2451.000 - SCG APPS MAJ MRK APP - SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	1,409	-2	0	0	0
Non-Labor	787	27	0	0	0
NSE	0	0	0	0	0
Total	2,195	25	0	0	0
FTE	13.3	0.1	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	8	0	0	0.0	CCTR Transf From 2100-3080.000	SOMAHONY20170308001203470
Explanation: Major Markets & Customer Self-Service costs transferred to 2200-2451.							
2012	Other	57	77	0	0.5	CCTR Transf From 2100-3080.000	SOMAHONY20170308001244870
Explanation: Major Markets & Customer Self-Service costs transferred to 2200-2451.							
2012	Other	0	57	0	0.0	CCTR Transf From 2100-3846.000	SOMAHONY20170308114343237
Explanation: SCG Apps Major Market App costs transferred to 2200-2451.							
2012	Other	914	226	0	8.9	CCTR Transf From 2100-3846.000	SOMAHONY20170308114422223
Explanation: SCG Apps Major Market App costs transferred to 2200-2451.							
2012	Other	0	0	0	0.0	CCTR Transf From 2100-3080.000	SOMAHONY20170308001308533
Explanation: Major Markets & Customer Self-Service costs transferred to 2200-2451.							
2012	Other	430	426	0	3.9	CCTR Transf From 2100-3080.000	SOMAHONY20170308001357317
Explanation: Major Markets & Customer Self-Service costs transferred to 2200-2451.							
2012 Total		1,409	787	0	13.3		

2013	Other	-4	11	0	0.0	CCTR Transf From 2100-3846.000	SOMAHONY20170308114511720
Explanation: SCG Apps Major Market App costs transferred to 2200-2451.							
2013	Other	-1	0	0	0.0	CCTR Transf From 2100-3080.000	SOMAHONY20170308001448393
Explanation: Major Markets & Customer Self-Service costs transferred to 2200-2451.							
2013	Other	-5	14	0	0.0	CCTR Transf From 2100-3080.000	SOMAHONY20170308001521090
Explanation: Major Markets & Customer Self-Service costs transferred to 2200-2451.							

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2451.000 - SCG APPS MAJ MRK APP - SCG

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2013	Other	7	2	0	0.1	CCTR Transf From 2100-3080.000	SOMAHONY20170308001601237
Explanation: Major Markets & Customer Self-Service costs transferred to 2200-2451.							
2013 Total		-2	27	0	0.1		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2470.000 - SCG IT COMPLIANCE MANAGEMENT

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2470.000 - SCG IT COMPLIANCE MANAGEMENT

Activity Description:

This cost center supports IT business Intelligence, including enterprise-wide software support, BI strategy and project services, as well as project management.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		618	593	299	367	554	555	555	555	
Non-Labor		35	95	142	15	143	142	142	142	
NSE		0	0	0	0	0	0	0	0	
Total		653	688	441	382	697	697	697	697	
FTE		4.7	5.0	2.7	3.2	4.8	4.8	4.8	4.8	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2470.000 - SCG IT COMPLIANCE MANAGEMENT

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	49	0	0	49	0.4	49	0	0	49	0.4
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	506	142	0	648	4.4	506	142	0	648	4.4
Total Incurred	555	142	0	697	4.8	555	142	0	697	4.8
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	49	0	0	49	0.4	49	0	0	49	0.4
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	506	142	0	648	4.4	506	142	0	648	4.4
Total Incurred	555	142	0	697	4.8	555	142	0	697	4.8
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2470.000 - SCG IT COMPLIANCE MANAGEMENT

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	554	554	554	0	0	0	554	554	554
Non-Labor	Base YR Rec	143	143	143	0	0	0	143	143	143
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		697	697	697	0	0	0	697	697	697
FTE	Base YR Rec	4.8	4.8	4.8	0.0	0.0	0.0	4.8	4.8	4.8

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2470.000 - SCG IT COMPLIANCE MANAGEMENT

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	489	251	312	492
Non-Labor	0	91	139	15	143
NSE	0	0	0	0	0
Total	0	580	390	327	635
FTE	0.0	4.3	2.3	2.8	4.3
Adjustments (Nominal \$) **					
Labor	503	0	0	0	-16
Non-Labor	33	0	0	0	0
NSE	0	0	0	0	0
Total	536	0	0	0	-16
FTE	4.0	0.0	0.0	0.0	-0.2
Recorded-Adjusted (Nominal \$)					
Labor	503	489	251	312	476
Non-Labor	33	91	139	15	143
NSE	0	0	0	0	0
Total	536	580	390	327	619
FTE	4.0	4.3	2.3	2.8	4.1
Vacation & Sick (Nominal \$)					
Labor	80	81	41	51	78
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	80	81	41	51	78
FTE	0.7	0.7	0.4	0.5	0.7
Escalation to 2016\$					
Labor	35	23	7	5	0
Non-Labor	2	4	3	0	0
NSE	0	0	0	0	0
Total	37	27	10	5	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	618	593	299	367	554
Non-Labor	35	95	142	15	143
NSE	0	0	0	0	0
Total	653	688	441	382	697
FTE	4.7	5.0	2.7	3.3	4.8

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2470.000 - SCG IT COMPLIANCE MANAGEMENT

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	503	0	0	0	-16
Non-Labor	33	0	0	0	0
NSE	0	0	0	0	0
Total	536	0	0	0	-16
FTE	4.0	0.0	0.0	0.0	-0.2

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	341	24	0	3.0	CCTR Transf From 2100-3089.000	SOMAHONY20161104163650983
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	112	6	0	1.0	CCTR Transf From 2100-3699.000	SOMAHONY20161105182218297
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	50	3	0	0.0	CCTR Transf From 2100-3684.000	SOMAHONY20161105180621890
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012 Total		503	33	0	4.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016	Aliso	-16	0	0	-0.2	1-Sided Adj	SOMAHONY20170223174406197
Explanation: 2016 Aliso Canyon - Removing Productive Labor							
2016 Total		-16	0	0	-0.2		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2503.000 - ARCHITECTURE AND INTEGRATION - SCG

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2503.000 - ARCHITECTURE AND INTEGRATION - SCG

Activity Description:

This cost center is responsible for configuring secure file transfers between internal applications and with external business partners, including performance monitoring, tuning and problem resolution.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	164	340	314	314	314	314	
Non-Labor		0	0	147	244	214	214	214	214	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	312	584	528	528	528	528	
FTE		0.0	0.0	1.5	2.2	2.9	2.9	2.9	2.9	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2503.000 - ARCHITECTURE AND INTEGRATION - SCG

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	314	214	0	528	2.9	314	214	0	528	2.9
Total Incurred	314	214	0	528	2.9	314	214	0	528	2.9
% Allocation										
Retained	35.63%	35.63%				35.32%	35.32%			
SEU	53.97%	53.97%				54.18%	54.18%			
CORP	10.40%	10.40%				10.50%	10.50%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	314	214	0	528	2.9	314	214	0	528	2.9
Total Incurred	314	214	0	528	2.9	314	214	0	528	2.9
% Allocation										
Retained	35.32%	35.32%				35.32%	35.32%			
SEU	54.18%	54.18%				54.18%	54.18%			
CORP	10.50%	10.50%				10.50%	10.50%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Allocations for 2017 are based on the total number of interfaces implemented on the EDIX/WebMethods system for SDGE, SCG and Parent.

Cost Center Allocation Percentage for 2017

Allocations for 2017 are based on the total number of interfaces implemented on the EDIX/WebMethods system for SDGE, SCG and Parent.

Cost Center Allocation Percentage for 2018

Allocations for 2017 are based on the total number of interfaces implemented on the EDIX/WebMethods system for SDGE, SCG and Parent.

Cost Center Allocation Percentage for 2019

Allocations for 2017 are based on the total number of interfaces implemented on the EDIX/WebMethods system for SDGE, SCG and Parent.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2503.000 - ARCHITECTURE AND INTEGRATION - SCG

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	314	314	314	0	0	0	314	314	314
Non-Labor	Base YR Rec	214	214	214	0	0	0	214	214	214
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		528	528	528	0	0	0	528	528	528
FTE	Base YR Rec	2.9	2.9	2.9	0.0	0.0	0.0	2.9	2.9	2.9

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2503.000 - ARCHITECTURE AND INTEGRATION - SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	138	289	270
Non-Labor	0	0	144	241	214
NSE	0	0	0	0	0
Total	0	0	282	530	483
FTE	0.0	0.0	1.3	1.9	2.5
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	138	289	270
Non-Labor	0	0	144	241	214
NSE	0	0	0	0	0
Total	0	0	282	530	483
FTE	0.0	0.0	1.3	1.9	2.5
Vacation & Sick (Nominal \$)					
Labor	0	0	23	47	44
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	23	47	44
FTE	0.0	0.0	0.2	0.3	0.4
Escalation to 2016\$					
Labor	0	0	4	4	0
Non-Labor	0	0	3	3	0
NSE	0	0	0	0	0
Total	0	0	7	7	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	164	340	314
Non-Labor	0	0	147	244	214
NSE	0	0	0	0	0
Total	0	0	312	584	528
FTE	0.0	0.0	1.5	2.2	2.9

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2503.000 - ARCHITECTURE AND INTEGRATION - SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2596.000 - SCG IT QUALITY ASSURANCE

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2596.000 - SCG IT QUALITY ASSURANCE

Activity Description:

This cost center represents IT quality testing services and related expenses provided by the IT Quality Assurance team, which supports both SDG&E and SCG.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	0	0	40	40	40	40	
Non-Labor		0	0	0	0	1	1	1	1	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	0	41	41	41	41	
FTE		0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2596.000 - SCG IT QUALITY ASSURANCE

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	4	0	0	4	0.0	4	0	0	4	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	36	1	0	37	0.3	36	1	0	37	0.3
Total Incurred	40	1	0	41	0.3	40	1	0	41	0.3
% Allocation										
Retained	100.00%	100.00%				100.00%	100.00%			
SEU	0.00%	0.00%				0.00%	0.00%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	4	0	0	4	0.0	4	0	0	4	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	36	1	0	37	0.3	36	1	0	37	0.3
Total Incurred	40	1	0	41	0.3	40	1	0	41	0.3
% Allocation										
Retained	100.00%	100.00%				100.00%	100.00%			
SEU	0.00%	0.00%				0.00%	0.00%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Cost center is now 100% SCG

Cost Center Allocation Percentage for 2017

Cost center is now 100% SCG

Cost Center Allocation Percentage for 2018

Cost center is now 100% SCG

Cost Center Allocation Percentage for 2019

Cost center is now 100% SCG

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2596.000 - SCG IT QUALITY ASSURANCE

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	40	40	40	0	0	0	40	40	40
Non-Labor	Base YR Rec	1	1	1	0	0	0	1	1	1
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		41	41	41	0	0	0	41	41	41
FTE	Base YR Rec	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.3

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2596.000 - SCG IT QUALITY ASSURANCE

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	35
Non-Labor	0	0	0	0	1
NSE	0	0	0	0	0
Total	0	0	0	0	35
FTE	0.0	0.0	0.0	0.0	0.3
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	0	0	35
Non-Labor	0	0	0	0	1
NSE	0	0	0	0	0
Total	0	0	0	0	35
FTE	0.0	0.0	0.0	0.0	0.3
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	6
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	6
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2016\$					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	0	0	40
Non-Labor	0	0	0	0	1
NSE	0	0	0	0	0
Total	0	0	0	0	41
FTE	0.0	0.0	0.0	0.0	0.3

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2596.000 - SCG IT QUALITY ASSURANCE

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Cost Center: VARIOUS

Summary for Category: B. Infrastructure

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	4,254	4,254	4,254	4,254
Non-Labor	897	1,076	1,076	1,076
NSE	0	0	0	0
Total	5,151	5,330	5,330	5,330
FTE	37.7	37.7	37.7	37.7

Cost Centers belonging to this Category:

2200-2047.000 IT ACCOUNT MANAGEMENT

Labor	118	118	118	118
Non-Labor	1	1	1	1
NSE	0	0	0	0
Total	119	119	119	119
FTE	1.0	1.0	1.0	1.0

2200-2372.000 DIRECTOR IT SOCALGAS APPLICATIONS

Labor	247	247	247	247
Non-Labor	3	3	3	3
NSE	0	0	0	0
Total	250	250	250	250
FTE	1.7	1.7	1.7	1.7

2200-2406.000 DIRECTOR - COMPUTING INFRASTRUCTURE

Labor	231	231	231	231
Non-Labor	152	152	152	152
NSE	0	0	0	0
Total	383	383	383	383
FTE	1.1	1.1	1.1	1.1

2200-2453.000 CLNT TECH & DEPOT SVC-SCG

Labor	322	322	322	322
Non-Labor	6	6	6	6
NSE	0	0	0	0
Total	328	328	328	328
FTE	3.4	3.4	3.4	3.4

2200-2455.000 IT BUSINESS INSIGHT - SCG

Labor	346	346	346	346
Non-Labor	3	3	3	3
NSE	0	0	0	0
Total	349	349	349	349
FTE	4.0	4.0	4.0	4.0

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Cost Center: VARIOUS

In 2016\$ (000) Incurred Costs			
Adjusted-Recorded	Adjusted-Forecast		
2016	2017	2018	2019

2200-2458.000 SCALABLE PLATFORM SERVS - SCG

Labor	253	253	253	253
Non-Labor	224	224	224	224
NSE	0	0	0	0
Total	477	477	477	477
FTE	2.4	2.4	2.4	2.4

2200-2464.000 CI COMPUTE SUPPORT SCG

Labor	1,022	1,022	1,022	1,022
Non-Labor	17	17	17	17
NSE	0	0	0	0
Total	1,039	1,039	1,039	1,039
FTE	9.3	9.3	9.3	9.3

2200-2466.000 CI COMPUTE PROVISIONING SCG

Labor	497	497	497	497
Non-Labor	141	141	141	141
NSE	0	0	0	0
Total	638	638	638	638
FTE	4.7	4.7	4.7	4.7

2200-2467.000 CI STANDARDS

Labor	497	497	497	497
Non-Labor	14	14	14	14
NSE	0	0	0	0
Total	511	511	511	511
FTE	4.7	4.7	4.7	4.7

2200-2490.000 ENTERPRISE ARCHITECTURE

Labor	260	260	260	260
Non-Labor	4	4	4	4
NSE	0	0	0	0
Total	264	264	264	264
FTE	2.2	2.2	2.2	2.2

2200-2493.000 IT PORTFOLIO MANAGEMENT

Labor	298	298	298	298
Non-Labor	270	305	305	305
NSE	0	0	0	0
Total	568	603	603	603
FTE	1.8	1.8	1.8	1.8

2200-2494.000 IT TELECOM PMO

Labor	74	74	74	74
Non-Labor	57	201	201	201
NSE	0	0	0	0
Total	131	275	275	275
FTE	0.8	0.8	0.8	0.8

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Cost Center: VARIOUS

In 2016\$ (000) Incurred Costs			
Adjusted-Recorded	Adjusted-Forecast		
2016	2017	2018	2019

2200-2565.000 IT TELECOM PMO

Labor	89	89	89	89
Non-Labor	5	5	5	5
NSE	0	0	0	0
Total	94	94	94	94
FTE	0.6	0.6	0.6	0.6

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2047.000 - IT ACCOUNT MANAGEMENT

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2047.000 - IT ACCOUNT MANAGEMENT

Activity Description:

This cost center manages Client Technology Support and Solutions, SempraHelp & IT Service Management, and IT Communications system-wide.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		76	48	180	203	118	118	118	118	
Non-Labor		59	0	27	1	1	1	1	1	
NSE		0	0	0	0	0	0	0	0	
Total		135	49	207	203	119	119	119	119	
FTE		0.7	0.5	1.5	1.7	1.1	1.0	1.0	1.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2047.000 - IT ACCOUNT MANAGEMENT

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 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.	118	0	0	118	1.0	118	0	0	118	1.0
Total Incurred	118	1	0	119	1.0	118	1	0	119	1.0
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 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.	118	0	0	118	1.0	118	0	0	118	1.0
Total Incurred	118	1	0	119	1.0	118	1	0	119	1.0
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2047.000 - IT ACCOUNT MANAGEMENT

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	118	118	118	0	0	0	118	118	118
Non-Labor	Base YR Rec	1	1	1	0	0	0	1	1	1
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		119	119	119	0	0	0	119	119	119
FTE	Base YR Rec	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2047.000 - IT ACCOUNT MANAGEMENT

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	62	40	151	172	102
Non-Labor	55	0	26	1	1
NSE	0	0	0	0	0
Total	118	40	177	173	102
FTE	0.6	0.4	1.3	1.5	0.9
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	62	40	151	172	102
Non-Labor	55	0	26	1	1
NSE	0	0	0	0	0
Total	118	40	177	173	102
FTE	0.6	0.4	1.3	1.5	0.9
Vacation & Sick (Nominal \$)					
Labor	10	7	25	28	17
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	10	7	25	28	17
FTE	0.1	0.1	0.2	0.2	0.2
Escalation to 2016\$					
Labor	4	2	4	3	0
Non-Labor	3	0	1	0	0
NSE	0	0	0	0	0
Total	8	2	5	3	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	76	48	180	203	118
Non-Labor	59	0	27	1	1
NSE	0	0	0	0	0
Total	135	49	207	203	119
FTE	0.7	0.5	1.5	1.7	1.1

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2047.000 - IT ACCOUNT MANAGEMENT

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2372.000 - DIRECTOR IT SOCALGAS APPLICATIONS

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2372.000 - DIRECTOR IT SOCALGAS APPLICATIONS

Activity Description:

This cost center supports the management and administration of various system-wide IT contracts and managed services.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		200	199	-2	183	247	247	247	247	
Non-Labor		37	25	12	26	3	3	3	3	
NSE		0	0	0	0	0	0	0	0	
Total		237	224	11	209	251	250	250	250	
FTE		1.2	1.1	0.0	1.3	1.7	1.7	1.7	1.7	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2372.000 - DIRECTOR IT SOCIALGAS APPLICATIONS

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	11	1	0	12	0.1	11	1	0	12	0.1
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	236	2	0	238	1.6	236	2	0	238	1.6
Total Incurred	247	3	0	250	1.7	247	3	0	250	1.7
% Allocation										
Retained	50.62%	50.62%				40.00%	40.00%			
SEU	49.38%	49.38%				60.00%	60.00%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	11	1	0	12	0.1	11	1	0	12	0.1
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	236	2	0	238	1.6	236	2	0	238	1.6
Total Incurred	247	3	0	250	1.7	247	3	0	250	1.7
% Allocation										
Retained	40.00%	40.00%				40.00%	40.00%			
SEU	60.00%	60.00%				60.00%	60.00%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2372.000 - DIRECTOR IT SOCALGAS APPLICATIONS

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Calculations are based on the number of CPU used across each utility. The use of CPU utilization study is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

Calculations are based on the number of CPU used across each utility. The use of CPU utilization study is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

Calculations are based on the number of CPU used across each utility. The use of CPU utilization study is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

Calculations are based on the number of CPU used across each utility. The use of CPU utilization study is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2372.000 - DIRECTOR IT SOCIALGAS APPLICATIONS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	247	247	247	0	0	0	247	247	247
Non-Labor	Base YR Rec	3	3	3	0	0	0	3	3	3
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		251	251	251	0	0	0	251	251	251
FTE	Base YR Rec	1.7	1.7	1.7	0.0	0.0	0.0	1.7	1.7	1.7

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2372.000 - DIRECTOR IT SOCIALGAS APPLICATIONS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	163	164	-1	156	212
Non-Labor	35	24	12	25	3
NSE	0	0	0	0	0
Total	198	188	11	181	216
FTE	1.0	0.9	0.0	1.1	1.4
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	163	164	-1	156	212
Non-Labor	35	24	12	25	3
NSE	0	0	0	0	0
Total	198	188	11	181	216
FTE	1.0	0.9	0.0	1.1	1.4
Vacation & Sick (Nominal \$)					
Labor	26	27	0	25	35
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	26	27	0	25	35
FTE	0.2	0.2	0.0	0.2	0.2
Escalation to 2016\$					
Labor	11	8	0	2	0
Non-Labor	2	1	0	0	0
NSE	0	0	0	0	0
Total	13	9	0	3	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	200	199	-2	183	247
Non-Labor	37	25	12	26	3
NSE	0	0	0	0	0
Total	237	224	11	209	251
FTE	1.2	1.1	0.0	1.3	1.6

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2372.000 - DIRECTOR IT SOCALGAS APPLICATIONS

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2406.000 - DIRECTOR - COMPUTING INFRASTRUCTURE

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2406.000 - DIRECTOR - COMPUTING INFRASTRUCTURE

Activity Description:

This cost center supports all of ITOTI, including the group's support of other affiliates.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Zero-Based

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		209	259	263	223	231	231	231	231	
Non-Labor		7	31	53	133	152	152	152	152	
NSE		0	0	0	0	0	0	0	0	
Total		217	291	317	356	383	383	383	383	
FTE		2.3	2.2	2.2	1.3	1.2	1.1	1.1	1.1	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2406.000 - DIRECTOR - COMPUTING INFRASTRUCTURE

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	6	1	0	7	0.0	6	1	0	7	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	225	151	0	376	1.1	225	151	0	376	1.1
Total Incurred	231	152	0	383	1.1	231	152	0	383	1.1
% Allocation										
Retained	50.35%	50.35%				49.07%	49.07%			
SEU	48.58%	48.58%				49.86%	49.86%			
CORP	1.07%	1.07%				1.07%	1.07%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	6	1	0	7	0.0	6	1	0	7	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	225	151	0	376	1.1	225	151	0	376	1.1
Total Incurred	231	152	0	383	1.1	231	152	0	383	1.1
% Allocation										
Retained	49.07%	49.07%				49.07%	49.07%			
SEU	49.86%	49.86%				49.86%	49.86%			
CORP	1.07%	1.07%				1.07%	1.07%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2406.000 - DIRECTOR - COMPUTING INFRASTRUCTURE

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Calculations are based on department weighted average. The use of department weighted average is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

Calculations are based on department weighted average. The use of department weighted average is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

Calculations are based on department weighted average. The use of department weighted average is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

Calculations are based on department weighted average. The use of department weighted average is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2406.000 - DIRECTOR - COMPUTING INFRASTRUCTURE

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	231	231	231	0	0	0	231	231	231
Non-Labor	Base YR Rec	152	152	152	0	0	0	152	152	152
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		383	383	383	0	0	0	383	383	383
FTE	Base YR Rec	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	1.1

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2406.000 - DIRECTOR - COMPUTING INFRASTRUCTURE

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	214	222	190	198
Non-Labor	1	30	52	131	153
NSE	0	0	0	0	0
Total	1	244	274	321	351
FTE	0.0	1.9	1.9	1.1	1.0
Adjustments (Nominal \$) **					
Labor	170	0	0	0	0
Non-Labor	6	0	0	0	-1
NSE	0	0	0	0	0
Total	176	0	0	0	-1
FTE	2.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	170	214	222	190	198
Non-Labor	7	30	52	131	152
NSE	0	0	0	0	0
Total	177	244	274	321	350
FTE	2.0	1.9	1.9	1.1	1.0
Vacation & Sick (Nominal \$)					
Labor	27	36	36	31	33
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	27	36	36	31	33
FTE	0.3	0.3	0.3	0.2	0.2
Escalation to 2016\$					
Labor	12	10	6	3	0
Non-Labor	0	1	1	2	0
NSE	0	0	0	0	0
Total	12	11	7	4	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	209	259	263	223	231
Non-Labor	7	31	53	133	152
NSE	0	0	0	0	0
Total	217	291	317	356	383
FTE	2.3	2.2	2.2	1.3	1.2

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2406.000 - DIRECTOR - COMPUTING INFRASTRUCTURE

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	170	0	0	0	0
Non-Labor	6	0	0	0	-0.906
NSE	0	0	0	0	0
Total	176	0	0	0	-0.906
FTE	2.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	170	6	0	2.0	CCTR Transf From 2100-3095.000	SOMAHONY20161104165146790

Explanation: IT Employee Transfer from SDGE to SCG as of 2013.

2012 Total	170	6	0	2.0
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2013 Total	0	0	0	0.0
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2014 Total	0	0	0	0.0
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2015 Total	0	0	0	0.0
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2016	Aliso	0	-1	0	0.0	1-Sided Adj	SOMAHONY20170223173359250
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Explanation: 2016 Aliso Canyon - Removing Office Supplies and Catering

2016 Total	0	-1	0	0.0
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Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2453.000 - CLNT TECH & DEPOT SVC-SCG

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2453.000 - CLNT TECH & DEPOT SVC-SCG

Activity Description:

This cost center provides management and support services for system-wide Client Technology and IT Depot services.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Zero-Based

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		211	377	332	365	322	322	322	322	
Non-Labor		10	8	1	3	6	6	6	6	
NSE		0	0	0	0	0	0	0	0	
Total		220	385	333	368	328	328	328	328	
FTE		2.3	4.0	3.0	3.9	3.4	3.4	3.4	3.4	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2453.000 - CLNT TECH & DEPOT SVC-SCG

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	322	6	0	328	3.4	322	6	0	328	3.4
Total Incurred	322	6	0	328	3.4	322	6	0	328	3.4
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	322	6	0	328	3.4	322	6	0	328	3.4
Total Incurred	322	6	0	328	3.4	322	6	0	328	3.4
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2453.000 - CLNT TECH & DEPOT SVC-SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Calculations are based on the number of LAN IDs used across each utility and Parent (corporate center). The use of LAN IDs is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center. The IT & Client Services cost centers provides infrastructure computing services for computer users at SDGE, SCG, and Parent. Computer users are provided a LAN ID in order to access and use the services provided by IT & Client Services cost centers. Therefore, LAN ID is the most representative determination for the allocation of costs to SDGE, SCG, and Parent. In addition, LAN ID is assigned specifically to the users at the respective companies and is the most efficient and streamlined method to accurately determine the use of services by the various companies. LAN IDs are assigned to all types of workers, employees and non-employees, providing an improved allocation measure compared to employee FTE counts.

Cost Center Allocation Percentage for 2017

Calculations are based on the number of LAN IDs used across each utility and Parent (corporate center). The use of LAN IDs is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center. The IT & Client Services cost centers provides infrastructure computing services for computer users at SDGE, SCG, and Parent. Computer users are provided a LAN ID in order to access and use the services provided by IT & Client Services cost centers. Therefore, LAN ID is the most representative determination for the allocation of costs to SDGE, SCG, and Parent. In addition, LAN ID is assigned specifically to the users at the respective companies and is the most efficient and streamlined method to accurately determine the use of services by the various companies. LAN IDs are assigned to all types of workers, employees and non-employees, providing an improved allocation measure compared to employee FTE counts.

Cost Center Allocation Percentage for 2018

Calculations are based on the number of LAN IDs used across each utility and Parent (corporate center). The use of LAN IDs is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center. The IT & Client Services cost centers provides infrastructure computing services for computer users at SDGE, SCG, and Parent. Computer users are provided a LAN ID in order to access and use the services provided by IT & Client Services cost centers. Therefore, LAN ID is the most representative determination for the allocation of costs to SDGE, SCG, and Parent. In addition, LAN ID is assigned specifically to the users at the respective companies and is the most efficient and streamlined method to accurately determine the use of services by the various companies. LAN IDs are assigned to all types of workers, employees and non-employees, providing an improved allocation measure compared to employee FTE counts.

Cost Center Allocation Percentage for 2019

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2453.000 - CLNT TECH & DEPOT SVC-SCG

Calculations are based on the number of LAN IDs used across each utility and Parent (corporate center). The use of LAN IDs is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center. The IT & Client Services cost centers provides infrastructure computing services for computer users at SDGE, SCG, and Parent. Computer users are provided a LAN ID in order to access and use the services provided by IT & Client Services cost centers. Therefore, LAN ID is the most representative determination for the allocation of costs to SDGE, SCG, and Parent. In addition, LAN ID is assigned specifically to the users at the respective companies and is the most efficient and streamlined method to accurately determine the use of services by the various companies. LAN IDs are assigned to all types of workers, employees and non-employees, providing an improved allocation measure compared to employee FTE counts.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2453.000 - CLNT TECH & DEPOT SVC-SCG

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	322	322	322	0	0	0	322	322	322
Non-Labor	Base YR Rec	6	6	6	0	0	0	6	6	6
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		328	328	328	0	0	0	328	328	328
FTE	Base YR Rec	3.4	3.4	3.4	0.0	0.0	0.0	3.4	3.4	3.4

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2453.000 - CLNT TECH & DEPOT SVC-SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	186	232	310	276
Non-Labor	0	4	1	3	6
NSE	0	0	0	0	0
Total	0	190	233	313	283
FTE	0.0	2.1	2.6	3.3	2.9
Adjustments (Nominal \$) **					
Labor	171	125	48	0	0
Non-Labor	9	4	0	0	0
NSE	0	0	0	0	0
Total	180	129	48	0	0
FTE	2.0	1.3	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	171	311	279	310	276
Non-Labor	9	8	1	3	6
NSE	0	0	0	0	0
Total	180	319	281	313	283
FTE	2.0	3.4	2.6	3.3	2.9
Vacation & Sick (Nominal \$)					
Labor	27	52	46	50	46
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	27	52	46	50	46
FTE	0.3	0.6	0.4	0.6	0.5
Escalation to 2016\$					
Labor	12	15	7	5	0
Non-Labor	1	0	0	0	0
NSE	0	0	0	0	0
Total	12	15	7	5	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	211	377	332	365	322
Non-Labor	10	8	1	3	6
NSE	0	0	0	0	0
Total	220	385	333	368	328
FTE	2.3	4.0	3.0	3.9	3.4

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2453.000 - CLNT TECH & DEPOT SVC-SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	171	125	48	0	0
Non-Labor	9	4	0	0	0
NSE	0	0	0	0	0
Total	180	129	48	0	0
FTE	2.0	1.3	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	171	9	0	2.0	CCTR Transf From 2100-3097.000	SOMAHONY20161104185022000
Explanation:		IT Employee Transfer from SDGE to SCG as of 2013.					
2012 Total		171	9	0	2.0		
2013	Other	125	4	0	1.3	CCTR Transf From 2200-2457.000	SHAO20170308134638300
Explanation:		SempraHelp & IT services costs move to cost center 2200-2453. Cost center 2200-2457 has been retired.					
2013	Other	0	0	0	0.0	CCTR Transf From 2200-2457.000	SHAO20170308135042017
Explanation:		SempraHelp & IT services costs move to cost center 2200-2453. Cost center 2200-2457 has been retired.					
2013 Total		125	4	0	1.3		
2014	Other	48	0	0	0.0	CCTR Transf From 2200-2457.000	SHAO20170308135249227
Explanation:		SempraHelp & IT services costs move to cost center 2200-2453. Cost center 2200-2457 has been retired.					
2014 Total		48	0	0	0.0		
2015 Total		0	0	0	0.0		
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2455.000 - IT BUSINESS INSIGHT - SCG

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2455.000 - IT BUSINESS INSIGHT - SCG

Activity Description:

This cost center performs contract management and administration and planning activities for the maintenance contracts associated with support for the Client Technology & Depot Services, SempraHelp, Enterprise Voice, Messaging, & IT Service Management.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		766	838	649	469	346	346	346	346	
Non-Labor		29	14	3	7	3	3	3	3	
NSE		0	0	0	0	0	0	0	0	
Total		795	852	652	476	350	349	349	349	
FTE		9.3	9.5	6.5	5.1	4.0	4.0	4.0	4.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2455.000 - IT BUSINESS INSIGHT - SCG

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 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.	346	2	0	348	4.0	346	2	0	348	4.0
Total Incurred	346	3	0	349	4.0	346	3	0	349	4.0
% Allocation										
Retained	49.75%	49.75%				49.56%	49.56%			
SEU	40.28%	40.28%				40.29%	40.29%			
CORP	4.63%	4.63%				4.63%	4.63%			
Unreg	5.34%	5.34%				5.52%	5.52%			

	2018 Adjusted-Forecast					2019 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.	346	2	0	348	4.0	346	2	0	348	4.0
Total Incurred	346	3	0	349	4.0	346	3	0	349	4.0
% Allocation										
Retained	49.56%	49.56%				49.56%	49.56%			
SEU	40.29%	40.29%				40.29%	40.29%			
CORP	4.63%	4.63%				4.63%	4.63%			
Unreg	5.52%	5.52%				5.52%	5.52%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2455.000 - IT BUSINESS INSIGHT - SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The cost center costs are for maintenance contract costs for hardware and software equipment that provides Distributed Server Environment and Network systems, Scalable Platform Services, Client Technology & Depot Services, SempraHelp & IT Service Management. System functions for computer users at SDGE, SCG and Parent, and voice support functions for Telecommunications device users at SDGE, SCG, Parent and certain Global Companies -Voice count. Therefore, voice count is the most representative determination for the allocation of systems maintenance contract costs to SDGE, SCG, and Parent.

Cost Center Allocation Percentage for 2017

The cost center costs are for maintenance contract costs for hardware and software equipment that provides Distributed Server Environment and Network systems, Scalable Platform Services, Client Technology & Depot Services, SempraHelp & IT Service Management. System functions for computer users at SDGE, SCG and Parent, and voice support functions for Telecommunications device users at SDGE, SCG, Parent and certain Global Companies -Voice count. Therefore, voice count is the most representative determination for the allocation of systems maintenance contract costs to SDGE, SCG, and Parent.

Cost Center Allocation Percentage for 2018

The cost center costs are for maintenance contract costs for hardware and software equipment that provides Distributed Server Environment and Network systems, Scalable Platform Services, Client Technology & Depot Services, SempraHelp & IT Service Management. System functions for computer users at SDGE, SCG and Parent, and voice support functions for Telecommunications device users at SDGE, SCG, Parent and certain Global Companies -Voice count. Therefore, voice count is the most representative determination for the allocation of systems maintenance contract costs to SDGE, SCG, and Parent.

Cost Center Allocation Percentage for 2019

The cost center costs are for maintenance contract costs for hardware and software equipment that provides Distributed Server Environment and Network systems, Scalable Platform Services, Client Technology & Depot Services, SempraHelp & IT Service Management. System functions for computer users at SDGE, SCG and Parent, and voice support functions for Telecommunications device users at SDGE, SCG, Parent and certain Global Companies -Voice count. Therefore, voice count is the most representative determination for the allocation of systems maintenance contract costs to SDGE, SCG, and Parent.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2455.000 - IT BUSINESS INSIGHT - SCG

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	346	346	346	0	0	0	346	346	346
Non-Labor	Base YR Rec	3	3	3	0	0	0	3	3	3
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		350	350	350	0	0	0	350	350	350
FTE	Base YR Rec	4.0	4.0	4.0	0.0	0.0	0.0	4.0	4.0	4.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2455.000 - IT BUSINESS INSIGHT - SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	691	546	398	297
Non-Labor	0	14	3	7	3
NSE	0	0	0	0	0
Total	0	705	549	406	301
FTE	0.0	8.1	5.6	4.4	3.4
Adjustments (Nominal \$) **					
Labor	623	0	0	0	0
Non-Labor	27	0	0	0	0
NSE	0	0	0	0	0
Total	650	0	0	0	0
FTE	8.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	623	691	546	398	297
Non-Labor	27	14	3	7	3
NSE	0	0	0	0	0
Total	650	705	549	406	301
FTE	8.0	8.1	5.6	4.4	3.4
Vacation & Sick (Nominal \$)					
Labor	100	115	89	64	49
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	100	115	89	64	49
FTE	1.3	1.4	0.9	0.7	0.6
Escalation to 2016\$					
Labor	43	32	14	6	0
Non-Labor	2	1	0	0	0
NSE	0	0	0	0	0
Total	45	33	14	6	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	766	838	649	469	346
Non-Labor	29	14	3	7	3
NSE	0	0	0	0	0
Total	795	852	652	476	350
FTE	9.3	9.5	6.5	5.1	4.0

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2455.000 - IT BUSINESS INSIGHT - SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	623	0	0	0	0
Non-Labor	27	0	0	0	0
NSE	0	0	0	0	0
Total	650	0	0	0	0
FTE	8.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	468	21	0	6.0	CCTR Transf From 2100-3500.000	SOMAHONY20161103145708863
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	89	3	0	1.0	CCTR Transf From 2100-3097.000	SOMAHONY20161104185445357
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	66	3	0	1.0	CCTR Transf From 2100-3684.000	SOMAHONY20161105181741783
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012 Total		623	27	0	8.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2458.000 - SCALABLE PLATFORM SERVS - SCG

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2458.000 - SCALABLE PLATFORM SERVS - SCG

Activity Description:

Messaging and network activities for support and maintenance of messaging infrastructure, including E-mail, Calendaring, Instant Messaging, and SharePoint services on a system-wide basis across Corporate Center, SDG&E, and SoCal Gas.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		79	564	329	369	253	253	253	253	
Non-Labor		3	131	203	112	224	224	224	224	
NSE		0	0	0	0	0	0	0	0	
Total		82	696	532	482	478	477	477	477	
FTE		1.2	4.9	3.0	3.4	2.3	2.4	2.4	2.4	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2458.000 - SCALABLE PLATFORM SERVS - SCG

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	136	0	136	0.0	0	136	0	136	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	253	88	0	341	2.4	253	88	0	341	2.4
Total Incurred	253	224	0	477	2.4	253	224	0	477	2.4
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	136	0	136	0.0	0	136	0	136	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	253	88	0	341	2.4	253	88	0	341	2.4
Total Incurred	253	224	0	477	2.4	253	224	0	477	2.4
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2458.000 - SCALABLE PLATFORM SERVS - SCG

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	253	253	253	0	0	0	253	253	253
Non-Labor	Base YR Rec	224	224	224	0	0	0	224	224	224
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		478	478	478	0	0	0	478	478	478
FTE	Base YR Rec	2.4	2.4	2.4	0.0	0.0	0.0	2.4	2.4	2.4

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

SCG/INFORMATION TECHNOLOGY/Exh No:SCG-26-WP/Witness: C. Olmsted

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2458.000 - SCALABLE PLATFORM SERVS - SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	90	279	314	218
Non-Labor	0	6	199	111	224
NSE	0	0	0	0	0
Total	0	96	479	425	442
FTE	0.0	0.8	2.6	2.9	2.0
Adjustments (Nominal \$) **					
Labor	64	375	-2	0	0
Non-Labor	3	120	-1	0	0
NSE	0	0	0	0	0
Total	67	496	-3	0	0
FTE	1.0	3.4	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	64	465	277	314	218
Non-Labor	3	126	199	111	224
NSE	0	0	0	0	0
Total	67	592	475	425	442
FTE	1.0	4.2	2.6	2.9	2.0
Vacation & Sick (Nominal \$)					
Labor	10	77	45	51	36
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	10	77	45	51	36
FTE	0.2	0.7	0.4	0.5	0.3
Escalation to 2016\$					
Labor	4	22	7	5	0
Non-Labor	0	5	4	1	0
NSE	0	0	0	0	0
Total	5	27	12	6	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	79	564	329	369	253
Non-Labor	3	131	203	112	224
NSE	0	0	0	0	0
Total	82	696	532	482	478
FTE	1.2	4.9	3.0	3.4	2.3

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2458.000 - SCALABLE PLATFORM SERVS - SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	64	375	-2	0	0
Non-Labor	3	120	-0.944	0	0
NSE	0	0	0	0	0
Total	67	496	-3	0	0
FTE	1.0	3.4	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	64	3	0	1.0	CCTR Transf From 2100-3684.000	SOMAHONY20161105180014980
Explanation:		IT Employee Transfer from SDGE to SCG as of 2013.					
2012 Total		64	3	0	1.0		
2013	Other	0	0	0	0.0	CCTR Transf From 2200-2452.000	SOMAHONY20170308005858997
Explanation:		Collaboration Services SCG costs transferred to 2200-2458.					
2013	Other	5	0	0	0.0	CCTR Transf From 2200-2452.000	SOMAHONY20170308005920777
Explanation:		Collaboration Services SCG costs transferred to 2200-2458.					
2013	Other	64	3	0	1.0	CCTR Transf From 2100-3684.000	SOMAHONY20161105175617890
Explanation:		IT Employee Transfer from SDGE to SCG as of 2013.					
2013	Other	0	5	0	0.0	CCTR Transf From 2200-2452.000	SOMAHONY20170308005938343
Explanation:		Collaboration Services SCG costs transferred to 2200-2458.					
2013	Other	306	113	0	2.4	CCTR Transf From 2200-2452.000	SOMAHONY20170308010006747
Explanation:		Collaboration Services SCG costs transferred to 2200-2458.					
2013 Total		375	120	0	3.4		
2014	Other	-2	-1	0	0.0	CCTR Transf From 2200-2452.000	SOMAHONY20170308010100717
Explanation:		Collaboration Services SCG costs transferred to 2200-2458.					
2014 Total		-2	-1	0	0.0		

Note: Totals may include rounding differences.

Southern California Gas Company
 2019 GRC - APP
 Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2458.000 - SCALABLE PLATFORM SERVS - SCG

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2015 Total		0	0	0	0.0		
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2464.000 - CI COMPUTE SUPPORT SCG

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2464.000 - CI COMPUTE SUPPORT SCG

Activity Description:

This cost center provides operational support for the system-wide enterprise LAN/WAN infrastructure.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Zero-Based

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		633	744	370	605	1,022	1,022	1,022	1,022	
Non-Labor		22	19	3	9	17	17	17	17	
NSE		0	0	0	0	0	0	0	0	
Total		655	764	373	614	1,039	1,039	1,039	1,039	
FTE		7.0	7.2	3.7	5.5	9.2	9.3	9.3	9.3	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2464.000 - CI COMPUTE SUPPORT SCG

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 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.	1,022	16	0	1,038	9.3	1,022	16	0	1,038	9.3
Total Incurred	1,022	17	0	1,039	9.3	1,022	17	0	1,039	9.3
% Allocation										
Retained	48.28%	48.28%				48.28%	48.28%			
SEU	47.47%	47.47%				47.47%	47.47%			
CORP	4.25%	4.25%				4.25%	4.25%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 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.	1,022	16	0	1,038	9.3	1,022	16	0	1,038	9.3
Total Incurred	1,022	17	0	1,039	9.3	1,022	17	0	1,039	9.3
% Allocation										
Retained	48.28%	48.28%				48.28%	48.28%			
SEU	47.47%	47.47%				47.47%	47.47%			
CORP	4.25%	4.25%				4.25%	4.25%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2464.000 - CI COMPUTE SUPPORT SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2464.000 - CI COMPUTE SUPPORT SCG

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	1,022	1,022	1,022	0	0	0	1,022	1,022	1,022
Non-Labor	Base YR Rec	17	17	17	0	0	0	17	17	17
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		1,039	1,039	1,039	0	0	0	1,039	1,039	1,039
FTE	Base YR Rec	9.3	9.3	9.3	0.0	0.0	0.0	9.3	9.3	9.3

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2464.000 - CI COMPUTE SUPPORT SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	613	311	514	877
Non-Labor	0	19	3	9	17
NSE	0	0	0	0	0
Total	0	632	314	523	894
FTE	0.0	6.2	3.2	4.7	7.9
Adjustments (Nominal \$) **					
Labor	515	0	0	0	0
Non-Labor	21	0	0	0	0
NSE	0	0	0	0	0
Total	536	0	0	0	0
FTE	6.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	515	613	311	514	877
Non-Labor	21	19	3	9	17
NSE	0	0	0	0	0
Total	536	632	314	523	894
FTE	6.0	6.2	3.2	4.7	7.9
Vacation & Sick (Nominal \$)					
Labor	82	102	51	83	144
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	82	102	51	83	144
FTE	1.0	1.0	0.5	0.8	1.3
Escalation to 2016\$					
Labor	36	29	8	7	0
Non-Labor	1	1	0	0	0
NSE	0	0	0	0	0
Total	37	29	8	8	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	633	744	370	605	1,022
Non-Labor	22	19	3	9	17
NSE	0	0	0	0	0
Total	655	764	373	614	1,039
FTE	7.0	7.2	3.7	5.5	9.2

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2464.000 - CI COMPUTE SUPPORT SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	515	0	0	0	0
Non-Labor	21	0	0	0	0
NSE	0	0	0	0	0
Total	536	0	0	0	0
FTE	6.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	246	9	0	2.0	CCTR Transf From 2100-3098.000	SOMAHONY20161104185809467
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	65	3	0	1.0	CCTR Transf From 2100-3100.000	SOMAHONY20161104191547710
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	70	3	0	1.0	CCTR Transf From 2100-3105.000	SOMAHONY20161105164424753
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	62	3	0	1.0	CCTR Transf From 2100-3107.000	SOMAHONY20161105165222457
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	72	3	0	1.0	CCTR Transf From 2100-3335.000	SOMAHONY20161105170431540
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012 Total		515	21	0	6.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2466.000 - CI COMPUTE PROVISIONING SCG

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2466.000 - CI COMPUTE PROVISIONING SCG

Activity Description:

This cost center is responsible for the design and implementation of CI projects for Local Area and Wide Area networks and voice systems that link all company facilities.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Zero-Based

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		930	963	775	504	497	497	497	497	
Non-Labor		38	24	90	20	141	142	142	142	
NSE		0	0	0	0	0	0	0	0	
Total		968	987	864	524	638	639	639	639	
FTE		9.3	9.7	7.2	4.8	4.7	4.7	4.7	4.7	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2466.000 - CI COMPUTE PROVISIONING SCG

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 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.	497	141	0	638	4.7	497	141	0	638	4.7
Total Incurred	497	142	0	639	4.7	497	142	0	639	4.7
% Allocation										
Retained	48.28%	48.28%				48.28%	48.28%			
SEU	47.47%	47.47%				47.47%	47.47%			
CORP	4.25%	4.25%				4.25%	4.25%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 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.	497	141	0	638	4.7	497	141	0	638	4.7
Total Incurred	497	142	0	639	4.7	497	142	0	639	4.7
% Allocation										
Retained	48.28%	48.28%				48.28%	48.28%			
SEU	47.47%	47.47%				47.47%	47.47%			
CORP	4.25%	4.25%				4.25%	4.25%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2466.000 - CI COMPUTE PROVISIONING SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2466.000 - CI COMPUTE PROVISIONING SCG

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	497	497	497	0	0	0	497	497	497
Non-Labor	Base YR Rec	141	141	141	0	0	0	141	141	141
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		638	638	638	0	0	0	638	638	638
FTE	Base YR Rec	4.7	4.7	4.7	0.0	0.0	0.0	4.7	4.7	4.7

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2466.000 - CI COMPUTE PROVISIONING SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	635	621	429	427
Non-Labor	0	22	88	19	141
NSE	0	0	0	0	0
Total	0	657	708	448	568
FTE	0.0	6.7	5.9	4.1	4.0
Adjustments (Nominal \$) **					
Labor	756	159	31	0	0
Non-Labor	36	1	0	0	0
NSE	0	0	0	0	0
Total	792	160	31	0	0
FTE	8.0	1.6	0.3	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	756	794	651	429	427
Non-Labor	36	23	88	19	141
NSE	0	0	0	0	0
Total	792	817	739	448	568
FTE	8.0	8.3	6.2	4.1	4.0
Vacation & Sick (Nominal \$)					
Labor	121	132	106	69	70
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	121	132	106	69	70
FTE	1.3	1.4	1.0	0.7	0.7
Escalation to 2016\$					
Labor	53	37	17	6	0
Non-Labor	2	1	2	0	0
NSE	0	0	0	0	0
Total	55	38	19	6	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	930	963	775	504	497
Non-Labor	38	24	90	20	141
NSE	0	0	0	0	0
Total	968	987	864	524	638
FTE	9.3	9.7	7.2	4.8	4.7

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2466.000 - CI COMPUTE PROVISIONING SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	756	159	31	0	0
Non-Labor	36	0.922	0	0	0
NSE	0	0	0	0	0
Total	792	160	31	0	0
FTE	8.0	1.6	0.3	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	205	9	0	2.0	CCTR Transf From 2100-3096.000	SOMAHONY20161104180242350
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	69	3	0	1.0	CCTR Transf From 2100-3105.000	SOMAHONY20161105164704110
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	141	6	0	1.0	CCTR Transf From 2100-3335.000	SOMAHONY20161105170219130
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	341	18	0	4.0	CCTR Transf From 2100-3544.000	SOMAHONY20161105172206803
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012 Total		756	36	0	8.0		
2013	Other	159	1	0	1.6	CCTR Transf From 2200-2459.000	SHAO20170307160834933
Explanation: Scalable platform service costs move to cost center 2200-2466. Cost center 2200-2459 has been retired.							
2013 Total		159	1	0	1.6		
2014	Other	31	0	0	0.3	CCTR Transf From 2200-2459.000	SHAO20170307162403110
Explanation: Scalable platform service costs move to cost center 2200-2466. Cost center 2200-2459 has been retired.							
2014 Total		31	0	0	0.3		
2015 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2466.000 - CI COMPUTE PROVISIONING SCG

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2467.000 - CI STANDARDS

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2467.000 - CI STANDARDS

Activity Description:

This group is responsible for developing network and computing infrastructure standards, strategies, architectures, and policies which are implemented by various Computing Infrastructure teams. This group is also responsible for providing architectural consultations for critical IT projects as well as interfacing with business clients to understand requirements and provide a conduit to other Computing Infrastructure teams

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Zero-Based

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		184	135	68	217	497	497	497	497	
Non-Labor		10	5	1	9	14	14	14	14	
NSE		0	0	0	0	0	0	0	0	
Total		193	140	69	225	511	511	511	511	
FTE		1.2	1.1	0.6	1.9	4.7	4.7	4.7	4.7	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2467.000 - CI STANDARDS

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 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.	497	13	0	510	4.7	497	13	0	510	4.7
Total Incurred	497	14	0	511	4.7	497	14	0	511	4.7
% Allocation										
Retained	48.28%	48.28%				48.28%	48.28%			
SEU	47.47%	47.47%				47.47%	47.47%			
CORP	4.25%	4.25%				4.25%	4.25%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 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.	497	13	0	510	4.7	497	13	0	510	4.7
Total Incurred	497	14	0	511	4.7	497	14	0	511	4.7
% Allocation										
Retained	48.28%	48.28%				48.28%	48.28%			
SEU	47.47%	47.47%				47.47%	47.47%			
CORP	4.25%	4.25%				4.25%	4.25%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2467.000 - CI STANDARDS

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

Calculations are based on the number of server counts used across each utility and Parent (corporate center). The use of server counts is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2467.000 - CI STANDARDS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	497	497	497	0	0	0	497	497	497
Non-Labor	Base YR Rec	14	14	14	0	0	0	14	14	14
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		511	511	511	0	0	0	511	511	511
FTE	Base YR Rec	4.7	4.7	4.7	0.0	0.0	0.0	4.7	4.7	4.7

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2467.000 - CI STANDARDS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	111	57	184	427
Non-Labor	0	5	1	9	14
NSE	0	0	0	0	0
Total	0	116	59	193	441
FTE	0.0	0.9	0.5	1.6	4.0
Adjustments (Nominal \$) **					
Labor	149	0	0	0	0
Non-Labor	9	0	0	0	0
NSE	0	0	0	0	0
Total	158	0	0	0	0
FTE	1.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	149	111	57	184	427
Non-Labor	9	5	1	9	14
NSE	0	0	0	0	0
Total	158	116	59	193	441
FTE	1.0	0.9	0.5	1.6	4.0
Vacation & Sick (Nominal \$)					
Labor	24	18	9	30	70
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	24	18	9	30	70
FTE	0.2	0.2	0.1	0.3	0.7
Escalation to 2016\$					
Labor	10	5	1	3	0
Non-Labor	1	0	0	0	0
NSE	0	0	0	0	0
Total	11	5	2	3	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	184	135	68	217	497
Non-Labor	10	5	1	9	14
NSE	0	0	0	0	0
Total	193	140	69	225	511
FTE	1.2	1.1	0.6	1.9	4.7

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2467.000 - CI STANDARDS

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	149	0	0	0	0
Non-Labor	9	0	0	0	0
NSE	0	0	0	0	0
Total	158	0	0	0	0
FTE	1.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012	Other	103	6	0	1.0	CCTR Transf From 2100-3335.000	SOMAHONY20161105170007757
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012	Other	46	3	0	0.0	CCTR Transf From 2100-3100.000	SOMAHONY20161104194152700
Explanation: IT Employee Transfer from SDGE to SCG as of 2013.							
2012 Total		149	9	0	1.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2490.000 - ENTERPRISE ARCHITECTURE

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2490.000 - ENTERPRISE ARCHITECTURE

Activity Description:

This cost center contains all IT Compliance Management enterprise-wide.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	198	242	260	260	260	260	
Non-Labor		0	0	3	2	4	4	4	4	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	201	243	264	264	264	264	
FTE		0.0	0.0	1.7	2.1	2.2	2.2	2.2	2.2	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2490.000 - ENTERPRISE ARCHITECTURE

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	260	4	0	264	2.2	260	4	0	264	2.2
Total Incurred	260	4	0	264	2.2	260	4	0	264	2.2
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	260	4	0	264	2.2	260	4	0	264	2.2
Total Incurred	260	4	0	264	2.2	260	4	0	264	2.2
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2490.000 - ENTERPRISE ARCHITECTURE

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	260	260	260	0	0	0	260	260	260
Non-Labor	Base YR Rec	4	4	4	0	0	0	4	4	4
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		264	264	264	0	0	0	264	264	264
FTE	Base YR Rec	2.2	2.2	2.2	0.0	0.0	0.0	2.2	2.2	2.2

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2490.000 - ENTERPRISE ARCHITECTURE

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	166	205	223
Non-Labor	0	0	3	2	4
NSE	0	0	0	0	0
Total	0	0	170	207	227
FTE	0.0	0.0	1.5	1.8	1.9
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	166	205	223
Non-Labor	0	0	3	2	4
NSE	0	0	0	0	0
Total	0	0	170	207	227
FTE	0.0	0.0	1.5	1.8	1.9
Vacation & Sick (Nominal \$)					
Labor	0	0	27	33	37
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	27	33	37
FTE	0.0	0.0	0.2	0.3	0.3
Escalation to 2016\$					
Labor	0	0	4	3	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	4	3	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	198	242	260
Non-Labor	0	0	3	2	4
NSE	0	0	0	0	0
Total	0	0	201	243	264
FTE	0.0	0.0	1.7	2.1	2.2

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2490.000 - ENTERPRISE ARCHITECTURE

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2493.000 - IT PORTFOLIO MANAGEMENT

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2493.000 - IT PORTFOLIO MANAGEMENT

Activity Description:

This cost center provides leadership in establishing policies, strategies, and architectural framework that help guide technology adoptions and alignment with the overall business. It develops awareness and statements of direction for emerging technology opportunities to enable key business strategies and goals.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	194	208	298	298	298	298	
Non-Labor		0	0	6	111	270	306	306	306	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	200	319	568	604	604	604	
FTE		0.0	0.0	1.4	1.4	1.9	1.9	1.9	1.9	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2493.000 - IT PORTFOLIO MANAGEMENT

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	25	1	0	26	0.1	25	1	0	26	0.1
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	273	270	0	543	1.8	273	305	0	578	1.8
Total Incurred	298	271	0	569	1.9	298	306	0	604	1.9
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	25	1	0	26	0.1	25	1	0	26	0.1
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	273	305	0	578	1.8	273	305	0	578	1.8
Total Incurred	298	306	0	604	1.9	298	306	0	604	1.9
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2493.000 - IT PORTFOLIO MANAGEMENT

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	298	298	298	0	0	0	298	298	298
Non-Labor	Base YR Rec	270	270	270	35	35	35	305	305	305
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		568	568	568	35	35	35	603	603	603
FTE	Base YR Rec	1.8	1.8	1.8	0.0	0.0	0.0	1.8	1.8	1.8

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	Other	0	35	0	35	0.0	1-Sided Adj	JKLONG20161129105419277	
Explanation:		Purchased Services for Data Management Governance							
2017 Total		0	35	0	35	0.0			
2018	Other	0	35	0	35	0.0	1-Sided Adj	JKLONG20161129105436880	
Explanation:		Purchased Services for Data Management Governance							
2018 Total		0	35	0	35	0.0			
2019	Other	0	35	0	35	0.0	1-Sided Adj	JKLONG20161129105446873	
Explanation:		Purchased Services for Data Management Governance							
2019 Total		0	35	0	35	0.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2493.000 - IT PORTFOLIO MANAGEMENT

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	163	177	265
Non-Labor	0	0	5	109	270
NSE	0	0	0	0	0
Total	0	0	169	286	536
FTE	0.0	0.0	1.2	1.2	1.7
Adjustments (Nominal \$) **					
Labor	0	0	0	0	-9
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	-9
FTE	0.0	0.0	0.0	0.0	-0.1
Recorded-Adjusted (Nominal \$)					
Labor	0	0	163	177	256
Non-Labor	0	0	5	109	270
NSE	0	0	0	0	0
Total	0	0	169	286	526
FTE	0.0	0.0	1.2	1.2	1.6
Vacation & Sick (Nominal \$)					
Labor	0	0	27	29	42
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	27	29	42
FTE	0.0	0.0	0.2	0.2	0.3
Escalation to 2016\$					
Labor	0	0	4	3	0
Non-Labor	0	0	0	1	0
NSE	0	0	0	0	0
Total	0	0	4	4	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	194	208	298
Non-Labor	0	0	6	111	270
NSE	0	0	0	0	0
Total	0	0	200	319	568
FTE	0.0	0.0	1.4	1.4	1.9

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2493.000 - IT PORTFOLIO MANAGEMENT

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	-9
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	-9
FTE	0.0	0.0	0.0	0.0	-0.1

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016	Aliso	-9	0	0	-0.1	1-Sided Adj	SOMAHONY20170223180221567
2016 Total		-9	0	0	-0.1		

Explanation: 2016 Aliso Canyon - Removing Productive Labor

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2494.000 - IT TELECOM PMO

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2494.000 - IT TELECOM PMO

Activity Description:

This cost center provides IT support and delivery of advanced analytics for customer and grid data enterprise wide.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	51	0	74	74	74	74	
Non-Labor		0	0	1	4	57	201	201	201	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	52	4	132	275	275	275	
FTE		0.0	0.0	0.5	0.0	0.8	0.8	0.8	0.8	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2494.000 - IT TELECOM PMO

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	74	57	0	131	0.8	74	201	0	275	0.8
Total Incurred	74	57	0	131	0.8	74	201	0	275	0.8
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	74	201	0	275	0.8	74	201	0	275	0.8
Total Incurred	74	201	0	275	0.8	74	201	0	275	0.8
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

The use of LAN ID count is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2494.000 - IT TELECOM PMO

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	74	74	74	0	0	0	74	74	74
Non-Labor	Base YR Rec	57	57	57	144	144	144	201	201	201
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		132	132	132	144	144	144	276	276	276
FTE	Base YR Rec	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	Other	0	144	0	144	0.0	1-Sided Adj	JKLONG20170308174428307	
Explanation:		Temp agency labor for Data Analytics support							
2017 Total		0	144	0	144	0.0			
2018	Other	0	144	0	144	0.0	1-Sided Adj	JKLONG20170308174446417	
Explanation:		Temp agency labor for Data Analytics support							
2018 Total		0	144	0	144	0.0			
2019	Other	0	144	0	144	0.0	1-Sided Adj	JKLONG20170308174459590	
Explanation:		Temp agency labor for Data Analytics support							
2019 Total		0	144	0	144	0.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2494.000 - IT TELECOM PMO

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	43	0	64
Non-Labor	0	0	1	4	57
NSE	0	0	0	0	0
Total	0	0	43	4	121
FTE	0.0	0.0	0.4	0.0	0.7
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	43	0	64
Non-Labor	0	0	1	4	57
NSE	0	0	0	0	0
Total	0	0	43	4	121
FTE	0.0	0.0	0.4	0.0	0.7
Vacation & Sick (Nominal \$)					
Labor	0	0	7	0	11
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	7	0	11
FTE	0.0	0.0	0.1	0.0	0.1
Escalation to 2016\$					
Labor	0	0	1	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	1	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	51	0	74
Non-Labor	0	0	1	4	57
NSE	0	0	0	0	0
Total	0	0	52	4	132
FTE	0.0	0.0	0.5	0.0	0.8

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2494.000 - IT TELECOM PMO

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	-0.075
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	-0.075
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016	Aliso	0	0	0	0.0	1-Sided Adj	SOMAHONY20170223180803550
Explanation: 2016 Aliso Canyon - Removing Productive Labor							
2016 Total		0	0	0	0.0		

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2565.000 - IT TELECOM PMO

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2565.000 - IT TELECOM PMO

Activity Description:

The Telecom PMO provides project management and development for IT Telecom Related Projects enterprise wide.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	0	60	89	88	88	88	
Non-Labor		0	0	0	3	5	5	5	5	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	63	94	93	93	93	
FTE		0.0	0.0	0.0	0.4	0.7	0.6	0.6	0.6	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2565.000 - IT TELECOM PMO

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	24	1	0	25	0.2	24	1	0	25	0.2
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	64	4	0	68	0.4	64	4	0	68	0.4
Total Incurred	88	5	0	93	0.6	88	5	0	93	0.6
% Allocation										
Retained	61.91%	61.91%				59.94%	59.94%			
SEU	34.50%	34.50%				36.42%	36.42%			
CORP	3.59%	3.59%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	24	1	0	25	0.2	24	1	0	25	0.2
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	64	4	0	68	0.4	64	4	0	68	0.4
Total Incurred	88	5	0	93	0.6	88	5	0	93	0.6
% Allocation										
Retained	59.94%	59.94%				59.94%	59.94%			
SEU	36.42%	36.42%				36.42%	36.42%			
CORP	3.64%	3.64%				3.64%	3.64%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2565.000 - IT TELECOM PMO

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Calculations are based on the number of LAN IDs used across each utility and Parent (corporate center). The use of LAN IDs is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2017

Calculations are based on the number of LAN IDs used across each utility and Parent (corporate center). The use of LAN IDs is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2018

Calculations are based on the number of LAN IDs used across each utility and Parent (corporate center). The use of LAN IDs is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Cost Center Allocation Percentage for 2019

Calculations are based on the number of LAN IDs used across each utility and Parent (corporate center). The use of LAN IDs is appropriate as it accurately represents the allocation of time and resources between affiliates for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2565.000 - IT TELECOM PMO

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	89	89	89	0	0	0	89	89	89
Non-Labor	Base YR Rec	5	5	5	0	0	0	5	5	5
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		94	94	94	0	0	0	94	94	94
FTE	Base YR Rec	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.6

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2565.000 - IT TELECOM PMO

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	51	76
Non-Labor	0	0	0	3	5
NSE	0	0	0	0	0
Total	0	0	0	54	81
FTE	0.0	0.0	0.0	0.4	0.5
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	0	51	76
Non-Labor	0	0	0	3	5
NSE	0	0	0	0	0
Total	0	0	0	54	81
FTE	0.0	0.0	0.0	0.4	0.5
Vacation & Sick (Nominal \$)					
Labor	0	0	0	8	13
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	8	13
FTE	0.0	0.0	0.0	0.1	0.1
Escalation to 2016\$					
Labor	0	0	0	1	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	1	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	0	60	89
Non-Labor	0	0	0	3	5
NSE	0	0	0	0	0
Total	0	0	0	63	94
FTE	0.0	0.0	0.0	0.5	0.6

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2565.000 - IT TELECOM PMO

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: C. IT Support
Cost Center: 2200-2496.000

Summary for Category: C. IT Support

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	344	344	344	344
Non-Labor	14	14	14	14
NSE	0	0	0	0
Total	<u>358</u>	<u>358</u>	<u>358</u>	<u>358</u>
FTE	5.5	5.5	5.5	5.5

Cost Centers belonging to this Category:

2200-2496.000 SCG IT ASSOCIATE PROGRAM

Labor	344	344	344	344
Non-Labor	14	14	14	14
NSE	0	0	0	0
Total	<u>358</u>	<u>358</u>	<u>358</u>	<u>358</u>
FTE	5.5	5.5	5.5	5.5

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2496.000 - SCG IT ASSOCIATE PROGRAM

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2496.000 - SCG IT ASSOCIATE PROGRAM

Activity Description:

This cost center provides a structured environment for new IT Associate employees to enhance their knowledge and skills, and gain a broad based perspective of the SEU IT organization by rotating among three SEU IT departments.

Forecast Explanations:

Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

Non-Labor - Base YR Rec

This method is most appropriate because the base year most accurately represents the current state of the IT workpapers. 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.

NSE - Base YR Rec

N/A

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	4	6	72	344	344	344	344	
Non-Labor		0	0	4	8	14	14	14	14	
NSE		0	0	0	0	0	0	0	0	
Total		0	5	10	80	358	358	358	358	
FTE		0.0	0.1	0.1	1.2	5.5	5.5	5.5	5.5	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2496.000 - SCG IT ASSOCIATE PROGRAM

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	344	14	0	358	5.5	344	14	0	358	5.5
Total Incurred	344	14	0	358	5.5	344	14	0	358	5.5
% Allocation										
Retained	64.21%	64.21%				62.20%	62.20%			
SEU	35.79%	35.79%				37.80%	37.80%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	344	14	0	358	5.5	344	14	0	358	5.5
Total Incurred	344	14	0	358	5.5	344	14	0	358	5.5
% Allocation										
Retained	62.20%	62.20%				62.20%	62.20%			
SEU	37.80%	37.80%				37.80%	37.80%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: C. IT Support
Category-Sub: 1. IT Support
Cost Center: 2200-2496.000 - SCG IT ASSOCIATE PROGRAM

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Costs will be allocated based on employees with LAN access at SDG&E & SCG. The allocations are supported by the rationale that all 3 sub-groups in this cost center provide services to all IT organizations at SEu. Further, since the support provided by this group touches all IT systems and, in turn, all employees within SEu, with LAN access, will benefit from the services.

Cost Center Allocation Percentage for 2017

Costs will be allocated based on employees with LAN access at SDG&E & SCG. The allocations are supported by the rationale that all 3 sub-groups in this cost center provide services to all IT organizations at SEu. Further, since the support provided by this group touches all IT systems and, in turn, all employees within SEu, with LAN access, will benefit from the services.

Cost Center Allocation Percentage for 2018

Costs will be allocated based on employees with LAN access at SDG&E & SCG. The allocations are supported by the rationale that all 3 sub-groups in this cost center provide services to all IT organizations at SEu. Further, since the support provided by this group touches all IT systems and, in turn, all employees within SEu, with LAN access, will benefit from the services.

Cost Center Allocation Percentage for 2019

Costs will be allocated based on employees with LAN access at SDG&E & SCG. The allocations are supported by the rationale that all 3 sub-groups in this cost center provide services to all IT organizations at SEu. Further, since the support provided by this group touches all IT systems and, in turn, all employees within SEu, with LAN access, will benefit from the services.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2496.000 - SCG IT ASSOCIATE PROGRAM

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	344	344	344	0	0	0	344	344	344
Non-Labor	Base YR Rec	14	14	14	0	0	0	14	14	14
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		358	358	358	0	0	0	358	358	358
FTE	Base YR Rec	5.5	5.5	5.5	0.0	0.0	0.0	5.5	5.5	5.5

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2496.000 - SCG IT ASSOCIATE PROGRAM

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	4	5	61	295
Non-Labor	0	0	4	8	14
NSE	0	0	0	0	0
Total	0	4	9	70	309
FTE	0.0	0.1	0.1	1.0	4.7
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	4	5	61	295
Non-Labor	0	0	4	8	14
NSE	0	0	0	0	0
Total	0	4	9	70	309
FTE	0.0	0.1	0.1	1.0	4.7
Vacation & Sick (Nominal \$)					
Labor	0	1	1	10	49
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	1	1	10	49
FTE	0.0	0.0	0.0	0.2	0.8
Escalation to 2016\$					
Labor	0	0	0	1	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	1	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	4	6	72	344
Non-Labor	0	0	4	8	14
NSE	0	0	0	0	0
Total	0	5	10	80	358
FTE	0.0	0.1	0.1	1.2	5.5

* 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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2496.000 - SCG IT ASSOCIATE PROGRAM

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
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Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	Description
2200-0056	000	IT LVC FOR BUDGET USE ONLY
2200-0619	000	SCG NETWORK SUPPORT
2200-2198	000	OPEX 20/20 FIELD FORCE INITIATIVES
2200-2250	000	OPEX ASSET MANAGEMENT GIS
2200-2251	000	OPEX 20/20 IT INFRASTRUCTURE
2200-2252	000	CUSTOMER CARE ICE INTERACTIONS
2200-2253	000	PROJECT MANAGEMENT OFFICE FOR OPEX 20/20
2200-2256	000	FIELD WMS - MAINTENANCE AND INSPECTION
2200-2273	000	CPD IMPLEMENTATION SUPPORT
2200-2275	000	CUSTOMER CARE ICE SELF SERVICE
2200-2379	000	BUS COMM SVCS-SCG CUSTCONTCTR
2200-2384	000	IT APPLICATIONS NORTH PMO
2200-2385	000	SCG CUSTOMER INFO SYSTEMS & MAJOR MKTS
2200-2387	000	CUSTOMER SELF SERVICES
2200-2388	000	SCG INFRASTRUCTURE MIDDLEWARE
2200-2395	000	BUSINESS VOICE COMM SERVICES
2200-2400	000	SCG NETWORK INTEGRATION
2200-2405	000	SCG APPS CUSTOMER SELF SERVICES
2200-2420	000	SCG PERSONAL OWNED DEVICE ALLOWANCE
2200-2448	000	SYSTEM INTEGRATION & ARCHITECTURE
2200-2449	000	SCG APPS SW CUST INF
2200-2450	000	SCG APPS SW FIELD SR
2200-2454	000	INFRASTRUCTURE PMO
2200-2465	000	SCG NETWORK ENGINEERING
2200-2483	000	SCG SHARED APP PGRM
2200-2508	000	UO/F CONTRACTS-SCG
2200-2511	000	SCG COMPUCOM CONTRACT SERVICE
2200-2513	000	IT & OTI CONTRACTS - NSS
2200-2566	000	MAINFRAME CONTRACTS - SCG
2200-2582	000	SCG NETWORK ENGINEERING