

Application of SOUTHERN CALIFORNIA GAS)
COMPANY for authority to update its gas revenue)
requirement and base rates)
effective January 1, 2016 (U 904-G))

Application No. 14-11-____
Exhibit No.: (SCG-18-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

NOVEMBER 2014



**2016 General Rate Case - APP
INDEX OF WORKPAPERS**

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Overall Summary For Exhibit No. SCG-18-WP

Area:	INFORMATION TECHNOLOGY
Witness:	Christopher R. Olmsted

Description	In 2013 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
<i>Non-Shared Services</i>	6,941	7,390	7,640	7,640
<i>Shared Services</i>	11,995	11,995	14,293	15,984
Total	18,936	19,385	21,933	23,624

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted

Summary of Non-Shared Services Workpapers:

Description	In 2013 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
A. Applications	2,853	2,853	2,853	2,853
B. Infrastructure	4,047	4,206	4,456	4,456
D. IT Support	41	331	331	331
Total	6,941	7,390	7,640	7,640

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 2013\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Labor	2,282	2,282	2,282	2,282
Non-Labor	571	571	571	571
NSE	0	0	0	0
Total	2,853	2,853	2,853	2,853
FTE	23.4	23.4	23.4	23.4

Workpapers belonging to this Category:

2IT001.000 IT Applications NSS

Labor	2,282	2,282	2,282	2,282
Non-Labor	571	571	571	571
NSE	0	0	0	0
Total	2,853	2,853	2,853	2,853
FTE	23.4	23.4	23.4	23.4

Note: Totals may include rounding differences.

Beginning of Workpaper
2IT001.000 - IT Applications NSS

Southern California Gas Company
2016 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:

Support, enhancements, and maintenance of SCG customer service systems/applications: CIS (SCG Customer Billing App), MyAccount, Pacer, ART, Amigo,

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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		45	44	42	43	2,282	2,282	2,282	2,282	
Non-Labor		3	3	3	3	571	571	571	571	
NSE		0	0	0	0	0	0	0	0	
Total		48	47	45	47	2,853	2,853	2,853	2,853	
FTE		0.5	0.5	0.5	0.5	23.4	23.4	23.4	23.4	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	2,282	2,282	2,282	0	0	0	2,282	2,282	2,282
Non-Labor	Base YR Rec	571	571	571	0	0	0	571	571	571
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		2,853	2,853	2,853	0	0	0	2,853	2,853	2,853
FTE	Base YR Rec	23.4	23.4	23.4	0.0	0.0	0.0	23.4	23.4	23.4

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	2	1,957
Non-Labor	0	0	0	0	571
NSE	0	0	0	0	0
Total	0	0	0	2	2,527
FTE	0.0	0.0	0.0	0.0	20.0
Adjustments (Nominal \$) **					
Labor	35	35	35	35	0
Non-Labor	3	3	3	3	0
NSE	0	0	0	0	0
Total	38	38	38	38	0
FTE	0.4	0.4	0.4	0.4	0.0
Recorded-Adjusted (Nominal \$)					
Labor	35	35	35	37	1,957
Non-Labor	3	3	3	3	571
NSE	0	0	0	0	0
Total	38	38	38	40	2,527
FTE	0.4	0.4	0.4	0.4	20.0
Vacation & Sick (Nominal \$)					
Labor	6	6	6	6	325
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	6	6	6	6	325
FTE	0.1	0.1	0.1	0.1	3.4
Escalation to 2013\$					
Labor	4	3	2	1	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	5	3	2	1	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	45	44	42	43	2,282
Non-Labor	3	3	3	3	571
NSE	0	0	0	0	0
Total	48	47	45	47	2,853
FTE	0.5	0.5	0.5	0.5	23.4

* 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
2016 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	2009	2010	2011	2012		
Labor	35	35	35	35	0	
Non-Labor	3	3	3	3	0	
NSE	0	0	0	0	0	
Total	38	38	38	38	0	
FTE	0.4	0.4	0.4	0.4	0.0	

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	35	3	0	0.4	1-Sided Adj	N/A	LBROUGH201311 06092609453
IT employee xfers from SDGE 1IT001 to SCG.							
2009 Total	35	3	0	0.4			
2010	35	3	0	0.4	1-Sided Adj	N/A	LBROUGH201311 06092654633
IT employee xfers from SDGE 1IT001 to SCG.							
2010 Total	35	3	0	0.4			
2011	35	3	0	0.4	1-Sided Adj	N/A	LBROUGH201311 06092732377
IT employee xfers from SDGE 1IT001 to SCG.							
2011 Total	35	3	0	0.4			
2012	35	3	0	0.4	1-Sided Adj	N/A	LBROUGH201311 06092755483
IT employee xfers from SDGE 1IT001 to SCG.							
2012 Total	35	3	0	0.4			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 2013\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Labor	3,432	3,571	3,571	3,571
Non-Labor	615	635	885	885
NSE	0	0	0	0
Total	4,047	4,206	4,456	4,456
FTE	35.3	36.7	36.7	36.7

Workpapers belonging to this Category:

2IT002.000 IT Infrastructure NSS

Labor	3,432	3,571	3,571	3,571
Non-Labor	615	635	885	885
NSE	0	0	0	0
Total	4,047	4,206	4,456	4,456
FTE	35.3	36.7	36.7	36.7

Note: Totals may include rounding differences.

Beginning of Workpaper
2IT002.000 - IT Infrastructure NSS

Southern California Gas Company
2016 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:

This workpaper is a collection of non-shared IT Infrastructure cost centers, including SCG Communication Service Delivery, Customer Services, Network Integration, and other non-shared costs.

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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		2,507	2,468	2,460	2,301	3,432	3,571	3,571	3,571	
Non-Labor		494	393	494	665	615	635	885	885	
NSE		0	0	0	0	0	0	0	0	
Total		3,001	2,860	2,955	2,966	4,047	4,206	4,456	4,456	
FTE		25.3	25.0	25.1	23.3	35.3	36.7	36.7	36.7	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	3,432	3,432	3,432	139	139	139	3,571	3,571	3,571
Non-Labor	Base YR Rec	615	615	615	20	270	270	635	885	885
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		4,047	4,047	4,047	159	409	409	4,206	4,456	4,456
FTE	Base YR Rec	35.3	35.3	35.3	1.4	1.4	1.4	36.7	36.7	36.7

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014	139	20	0	159	1.4	1-Sided Adj

Management estimate to support design and deployment of a field area communications network covering SoCalGas service territory.

1.4 incremental FTEs to support CI Engineering in 2014, continuing through 2016. Assumes 70% O&C ratio and \$100k average salary plus \$10k per employee (2 employees) in associated NL costs.

2014 Total	139	20	0	159	1.4	
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2015	0	250	0	250	0.0	1-Sided Adj
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Increased Telecom Maintenance work to support aging infrastructure and improved reliability.

Estimate based upon a combination of microwave radio replacement (\$3k per unit) and microwave tower maintenance (approximately \$12k per microwave tower). There are approximately 60 microwave sites and 240 microwave radios within the SCG service territory.

2015	139	20	0	159	1.4	1-Sided Adj
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Management estimate to support design and deployment of a field area communications network covering SoCalGas service territory.

1.4 incremental FTEs to support CI Engineering in 2014, continuing through 2016. Assumes 70% O&C ratio and \$100k average salary plus \$10k per employee (2 employees) in associated NL costs.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>
2015 Total	139	270	0	409	1.4	

2016	0	250	0	250	0.0	1-Sided Adj
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Increased Telecom Maintenance work to support aging infrastructure and improved reliability.

Estimate based upon a combination of microwave radio replacement (\$3k per unit) and microwave tower maintenance (approximately \$12k per microwave tower). There are approximately 60 microwave sites and 240 microwave radios within the SCG service territory.

2016	139	20	0	159	1.4	1-Sided Adj
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Management estimate to support design and deployment of a field area communications network covering SoCalGas service territory.

1.4 incremental FTEs to support CI Engineering in 2014, continuing through 2016. Assumes 70% O&C ratio and \$100k average salary plus \$10k per employee (2 employees) in associated NL costs.

2016 Total	139	270	0	409	1.4	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	1,556	1,489	1,776	1,825	2,943
Non-Labor	443	360	472	651	615
NSE	0	0	0	0	0
Total	1,998	1,850	2,248	2,475	3,558
FTE	17.5	16.2	19.1	19.2	30.2
Adjustments (Nominal \$) **					
Labor	371	466	239	112	0
Non-Labor	3	3	3	3	0
NSE	0	0	0	0	0
Total	374	469	242	115	0
FTE	3.8	4.9	2.3	0.8	0.0
Recorded-Adjusted (Nominal \$)					
Labor	1,926	1,955	2,015	1,937	2,943
Non-Labor	446	363	475	654	615
NSE	0	0	0	0	0
Total	2,372	2,318	2,490	2,591	3,558
FTE	21.3	21.1	21.4	20.0	30.2
Vacation & Sick (Nominal \$)					
Labor	348	342	335	310	489
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	348	342	335	310	489
FTE	4.0	3.8	3.7	3.3	5.1
Escalation to 2013\$					
Labor	232	171	111	54	0
Non-Labor	48	29	19	12	0
NSE	0	0	0	0	0
Total	280	200	130	66	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	2,507	2,468	2,460	2,301	3,432
Non-Labor	494	393	494	665	615
NSE	0	0	0	0	0
Total	3,001	2,860	2,955	2,966	4,047
FTE	25.3	24.9	25.1	23.3	35.3

* 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
2016 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	2009	2010	2011	2012	2013
Labor	371	466	239	112	0
Non-Labor	3	3	3	3	0
NSE	0	0	0	0	0
Total	374	469	242	115	0
FTE	3.8	4.9	2.3	0.8	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	112	3	0	0.8	1-Sided Adj	N/A	LBROUGH201311 06092922360
IT employee xfers from SDGE 1IT002 to SCG.							
2009	252	0	0	3.0	CCTR Transf	From 2200-0404.000	RMCHRIST20131 106101639003
CCC Tech team transfered from cost center 2200-0404 in work group 200001 CCC-Support to cost center 2200-2395 in work group 2IT002 Information Technology.							
2009	6	0	0	0.0	CCTR Transf	From 2200-0404.000	RMCHRIST20131 106101827450
CCC Tech team transfered from 200001 in CCC-Support to 2IT002 in Information Technology. For salary lump sum.							
2009 Total	371	3	0	3.8			
2010	112	3	0	0.8	1-Sided Adj	N/A	LBROUGH201311 06092945520
IT employee xfers from SDGE 1IT002 to SCG.							
2010	353	0	0	4.1	CCTR Transf	From 2200-0404.000	RMCHRIST20131 106102033993
CCC Tech team transfered from cost center 2200-0404 in work group 200001 CCC-Support to cost center 2200-2395 in work group 2IT002 Information Technology.							
2010 Total	466	3	0	4.9			
2011	112	3	0	0.8	1-Sided Adj	N/A	LBROUGH201311 06093013697
IT employee xfers from SDGE 1IT002 to SCG.							

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	127	0	0	1.5	CCTR Transf	From 2200-0404.000	RMCHRIST20131 106102205580

CCC Tech team transferred from cost center 2200-0404 in work group 200001
 CCC-Support to cost center 2200-2395 in work group 2IT002 Information Technology.

2011 Total	239	3	0	2.3			
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2012	112	3	0	0.8	1-Sided Adj	N/A	LBROUGH201311 06093035270
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IT employee xfers from SDGE 1IT002 to SCG.

2012 Total	112	3	0	0.8			
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2013 Total	0	0	0	0.0			
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Non-Shared Service Workpapers

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

Summary for Category: D. IT Support

	In 2013\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Labor	17	71	71	71
Non-Labor	24	260	260	260
NSE	0	0	0	0
Total	<u>41</u>	<u>331</u>	<u>331</u>	<u>331</u>
FTE	0.1	2.1	2.1	2.1

Workpapers belonging to this Category:

2IT003.000 IT Support

Labor	17	71	71	71
Non-Labor	24	260	260	260
NSE	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	<u>41</u>	<u>331</u>	<u>331</u>	<u>331</u>
FTE	0.1	2.1	2.1	2.1

Note: Totals may include rounding differences.

Beginning of Workpaper
2IT003.000 - IT Support

Southern California Gas Company
2016 GRC - APP
Non-Shared Service Workpapers

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

Activity Description:

The costs in this work paper cover non-shared non-labor expenses recorded by the VP of IT and all Construction Planning and Design (CPD) costs under the IT Project Management Office for 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

Not applicable

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		1,976	2,203	594	44	17	71	71	71	
Non-Labor		5,310	4,549	3,347	943	24	260	260	260	
NSE		0	0	0	0	0	0	0	0	
Total		7,286	6,752	3,941	987	41	331	331	331	
FTE		20.8	23.8	6.9	0.6	0.1	2.1	2.1	2.1	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Non-Shared Service Workpapers

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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	17	17	17	54	54	54	71	71	71
Non-Labor	Base YR Rec	24	24	24	236	236	236	260	260	260
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		41	41	41	290	290	290	331	331	331
FTE	Base YR Rec	0.1	0.1	0.1	2.0	2.0	2.0	2.1	2.1	2.1

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014	54	236	0	290	2.0	1-Sided Adj

Management estimate of labor and non-labor costs related to the implementation of Construction Planning and Design capital project. Project is implementing new functions and features at SoCalGas operating regions resulting in O&M costs for support. Costs included are based on experience gained with the product during the capital project.

.2 incremental FTEs to support CPD in 2014, continuing through 2016. Assumes 20% O&C ratio and \$100k average salary. Additionally, includes CPD consulting/training NL costs (\$250k), based on 2014 estimated support levels, and a consolidation of CPD- related cost centers.

2014 Total	54	236	0	290	2.0	
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2015	54	236	0	290	2.0	1-Sided Adj
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Management estimate of labor and non-labor costs related to the implementation of Construction Planning and Design capital project. Project is implementing new functions and features at SoCalGas operating regions resulting in O&M costs for support. Costs included are based on experience gained with the product during the capital project.

.2 incremental FTEs to support CPD in 2014, continuing through 2016. Assumes 20% O&C ratio and \$100k average salary. Additionally, includes CPD consulting/training NL costs (\$250k), based on 2014 estimated support levels, and a consolidation of CPD- related cost centers.

2015 Total	54	236	0	290	2.0	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Non-Shared Service Workpapers

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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2016	54	236	0	290	2.0	1-Sided Adj

Management estimate of labor and non-labor costs related to the implementation of Construction Planning and Design capital project. Project is implementing new functions and features at SoCalGas operating regions resulting in O&M costs for support. Costs included are based on experience gained with the product during the capital project.

.2 incremental FTEs to support CPD in 2014, continuing through 2016. Assumes 20% O&C ratio and \$100k average salary. Additionally, includes CPD consulting/training NL costs (\$250k), based on 2014 estimated support levels, and a consolidation of CPD- related cost centers.

2016 Total	54	236	0	290	2.0	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Non-Shared Service Workpapers

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

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	1,518	1,745	642	831	1,072
Non-Labor	4,796	4,264	3,599	1,651	295
NSE	0	0	0	0	0
Total	6,314	6,009	4,241	2,482	1,366
FTE	17.5	20.2	7.6	9.4	11.8
Adjustments (Nominal \$) **					
Labor	0	0	-156	-794	-1,057
Non-Labor	-3	-55	-380	-725	-271
NSE	0	0	0	0	0
Total	-3	-55	-536	-1,519	-1,328
FTE	0.0	0.0	-1.7	-8.9	-11.7
Recorded-Adjusted (Nominal \$)					
Labor	1,518	1,745	486	37	15
Non-Labor	4,793	4,209	3,219	926	24
NSE	0	0	0	0	0
Total	6,311	5,954	3,705	963	39
FTE	17.5	20.2	5.9	0.5	0.1
Vacation & Sick (Nominal \$)					
Labor	274	305	81	6	2
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	274	305	81	6	2
FTE	3.3	3.6	1.0	0.1	0.0
Escalation to 2013\$					
Labor	183	153	27	1	0
Non-Labor	517	340	128	16	0
NSE	0	0	0	0	0
Total	700	492	155	17	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	1,976	2,203	594	44	17
Non-Labor	5,310	4,549	3,347	943	24
NSE	0	0	0	0	0
Total	7,286	6,752	3,941	987	41
FTE	20.8	23.8	6.9	0.6	0.1

* 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
2016 GRC - APP
Non-Shared Service Workpapers

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

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	0	0	-156	-794	-1,057
Non-Labor	-3	-55	-380	-725	-271
NSE	0	0	0	0	0
Total	-3	-55	-536	-1,519	-1,328
FTE	0.0	0.0	-1.7	-8.9	-11.7

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	0	-3	0	0.0	CCTR Transf	To 2200-2122.000	LBROUGH201402 27143310850
Transfer of CPD costs from IT to SCG Ops							
2009 Total	0	-3	0	0.0			
2010	0	-55	0	0.0	CCTR Transf	To 2200-2122.000	LBROUGH201402 27143242257
Transfer of CPD costs from IT to SCG Ops							
2010 Total	0	-55	0	0.0			
2011	-156	-380	0	-1.7	CCTR Transf	To 2200-2122.000	LBROUGH201402 27143207167
Transfer of CPD costs from IT to SCG Ops							
2011 Total	-156	-380	0	-1.7			
2012	-794	-725	0	-8.9	CCTR Transf	To 2200-2122.000	LBROUGH201402 27143059620
Transfer of CPD costs from IT to SCG Ops							
2012 Total	-794	-725	0	-8.9			

Note: Totals may include rounding differences.

Southern California Gas Company
 2016 GRC - APP
 Non-Shared Service Workpapers

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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2013	-1,057	-271	0	-11.7	CCTR Transf	To 2200-2122.000	LBROUGH201402 27142832373
Transfer of CPD costs from IT to SCG Ops							
2013 Total	-1,057	-271	0	-11.7			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted

Summary of Shared Services Workpapers:

Description	In 2013 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
A. Applications	6,363	6,363	7,321	8,258
B. Infrastructure	4,944	4,944	6,047	6,650
C. Information Security	628	628	708	788
D. IT Support	60	60	217	288
Total	11,995	11,995	14,293	15,984

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Summary for Category: A. Applications

	In 2013\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Labor	5,509	5,509	6,372	7,234
Non-Labor	854	854	949	1,024
NSE	0	0	0	0
Total	6,363	6,363	7,321	8,258
FTE	49.7	49.7	58.5	67.1

Cost Centers belonging to this Category:

2200-2405.000 SCG APPS CUSTOMER SELF SERVICES

Labor	666	666	666	666
Non-Labor	184	184	184	184
NSE	0	0	0	0
Total	850	850	850	850
FTE	6.0	6.0	6.0	6.0

2200-2418.000 DIRECTOR - SCG APPLICATIONS SERVICES

Labor	190	190	624	1,057
Non-Labor	18	18	63	108
NSE	0	0	0	0
Total	208	208	687	1,165
FTE	1.2	1.2	5.6	9.9

2200-2444.000 SCG SUPPLY CHAIN SERVICES

Labor	335	335	335	335
Non-Labor	9	9	9	9
NSE	0	0	0	0
Total	344	344	344	344
FTE	3.5	3.5	3.5	3.5

2200-2445.000 SCG WORK MANAGEMENT SERVICES

Labor	1,008	1,008	1,437	1,866
Non-Labor	163	163	213	243
NSE	0	0	0	0
Total	1,171	1,171	1,650	2,109
FTE	9.8	9.8	14.2	18.5

2200-2446.000 SCG GIS & CAD SERVICES

Labor	292	292	292	292
Non-Labor	20	20	20	20
NSE	0	0	0	0
Total	312	312	312	312
FTE	2.8	2.8	2.8	2.8

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

In 2013\$ (000) Incurred Costs			
Adjusted-Recorded	Adjusted-Forecast		
2013	2014	2015	2016

2200-2447.000 SCG SOFTWARE DEV - DATABASE

Labor	912	912	912	912
Non-Labor	70	70	70	70
NSE	0	0	0	0
Total	982	982	982	982
FTE	7.5	7.5	7.5	7.5

2200-2451.000 SCG APPS MAJ MRK APP - SCG

Labor	1,156	1,156	1,156	1,156
Non-Labor	181	181	181	181
NSE	0	0	0	0
Total	1,337	1,337	1,337	1,337
FTE	10.9	10.9	10.9	10.9

2200-2452.000 COLLABORATION SERVCS - SCG

Labor	363	363	363	363
Non-Labor	117	117	117	117
NSE	0	0	0	0
Total	480	480	480	480
FTE	2.8	2.8	2.8	2.8

2200-2468.000 CUSTOMER ENGAGEMENT SERVICES

Labor	16	16	16	16
Non-Labor	1	1	1	1
NSE	0	0	0	0
Total	17	17	17	17
FTE	0.2	0.2	0.2	0.2

2200-2470.000 IT INFORMATION MANAGEMENT SCG

Labor	571	571	571	571
Non-Labor	91	91	91	91
NSE	0	0	0	0
Total	662	662	662	662
FTE	5.0	5.0	5.0	5.0

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2405.000 - SCG APPS CUSTOMER SELF SERVICES

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2405.000 - SCG APPS CUSTOMER SELF SERVICES

Activity Description:

This cost center provides maintenance and enhancement programming support for SCG CIS Systems including IVR applications.

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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		473	875	447	509	666	666	666	666	
Non-Labor		26	48	25	104	184	184	184	184	
NSE		0	0	0	0	0	0	0	0	
Total		499	923	472	614	850	850	850	850	
FTE		3.5	7.0	3.5	3.6	6.0	6.0	6.0	6.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2405.000 - SCG APPS CUSTOMER SELF SERVICES

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	2	0	0	2	0.00	2	0	0	2	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	664	184	0	848	6.00	664	184	0	848	6.01
Total Incurred	666	184	0	850	6.00	666	184	0	850	6.01
% Allocation										
Retained	84.37%	84.37%				100.00%	100.00%			
SEU	15.63%	15.63%				0.00%	0.00%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	2	0	0	2	0.00	2	0	0	2	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	664	184	0	848	6.01	664	184	0	848	6.01
Total Incurred	666	184	0	850	6.01	666	184	0	850	6.01
% 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 2013

The allocations are calculated by projecting by systems supported by this cost center, the number of 2013 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.

Cost Center Allocation Percentage for 2014

For 2014 this cost center was revised to 100% retained at SCG.

Cost Center Allocation Percentage for 2015

For 2014 this cost center was revised to 100% retained at SCG.

Cost Center Allocation Percentage for 2016

For 2014 this cost center was revised to 100% retained at SCG.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2405.000 - SCG APPS CUSTOMER SELF SERVICES

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	666	666	666	0	0	0	666	666	666
Non-Labor	Base YR Rec	184	184	184	0	0	0	184	184	184
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		850	850	850	0	0	0	850	850	850
FTE	Base YR Rec	6.0	6.0	6.0	0.0	0.0	0.0	6.0	6.0	6.0

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2405.000 - SCG APPS CUSTOMER SELF SERVICES

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	13	571
Non-Labor	0	0	0	75	184
NSE	0	0	0	0	0
Total	0	0	0	88	755
FTE	0.0	0.0	0.0	0.1	5.1
Adjustments (Nominal \$) **					
Labor	373	704	373	422	0
Non-Labor	24	45	24	27	0
NSE	0	0	0	0	0
Total	397	749	397	449	0
FTE	3.0	6.0	3.0	3.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	373	704	373	435	571
Non-Labor	24	45	24	102	184
NSE	0	0	0	0	0
Total	397	749	397	537	755
FTE	3.0	6.0	3.0	3.1	5.1
Vacation & Sick (Nominal \$)					
Labor	58	112	55	63	95
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	58	112	55	63	95
FTE	0.5	1.0	0.5	0.5	0.9
Escalation to 2013\$					
Labor	43	60	19	11	0
Non-Labor	2	3	1	2	0
NSE	0	0	0	0	0
Total	45	63	20	13	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	473	875	447	509	666
Non-Labor	26	48	25	104	184
NSE	0	0	0	0	0
Total	499	923	472	614	850
FTE	3.5	7.0	3.5	3.6	6.0

* 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2405.000 - SCG APPS CUSTOMER SELF SERVICES

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	373	704	373	422	0
Non-Labor	24	45	24	27	0
NSE	0	0	0	0	0
Total	397	749	397	449	0
FTE	3.0	6.0	3.0	3.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	331	21	0	3.0	CCTR Transf	From 2100-3080.000	FFIGUERO20131 031110123160
IT Employee Transfer from SDGE to SCG as of 2013							
2009	42	3	0	0.0	CCTR Transf	From 2100-3086.000	FFIGUERO20131 031115221130
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	373	24	0	3.0			
2010	331	21	0	3.0	CCTR Transf	From 2100-3080.000	FFIGUERO20131 031111317563
IT Employee Transfer from SDGE to SCG as of 2013							
2010	331	21	0	3.0	CCTR Transf	From 2100-3080.000	FFIGUERO20131 031111540997
IT Employee Transfer from SDGE to SCG as of 2013							
2010	42	3	0	0.0	CCTR Transf	From 2100-3086.000	FFIGUERO20131 031115309610
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	704	45	0	6.0			
2011	42	3	0	0.0	CCTR Transf	From 2100-3086.000	FFIGUERO20131 031115345383
IT Employee Transfer from SDGE to SCG as of 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2405.000 - SCG APPS CUSTOMER SELF SERVICES

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	331	21	0	3.0	CCTR Transf	From 2100-3080.000	FFIGUERO20131 101095450973
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	373	24	0	3.0			
2012	380	24	0	3.0	CCTR Transf	From 2100-3080.000	FFIGUERO20131 101095603390
IT Employee Transfer from SDGE to SCG as of 2013							
2012	42	3	0	0.0	CCTR Transf	From 2100-3086.000	FFIGUERO20131 101100730283
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	422	27	0	3.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

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

Southern California Gas Company
2016 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 the SCG IT applications organization. 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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		0	0	0	131	190	190	624	1,057	
Non-Labor		0	0	0	167	18	18	63	108	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	298	208	208	687	1,165	
FTE		0.0	0.0	0.0	0.8	1.2	1.2	5.6	9.9	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	8	0	8	0.00	0	8	0	8	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	190	10	0	200	1.15	190	10	0	200	1.15
Total Incurred	190	18	0	208	1.15	190	18	0	208	1.15
% Allocation										
Retained	85.55%	85.55%				95.90%	95.90%			
SEU	11.73%	11.73%				3.77%	3.77%			
CORP	2.72%	2.72%				0.33%	0.33%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	8	0	8	0.00	0	8	0	8	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	624	55	0	679	5.55	1,057	100	0	1,157	9.85
Total Incurred	624	63	0	687	5.55	1,057	108	0	1,165	9.85
% Allocation										
Retained	95.90%	95.90%				95.90%	95.90%			
SEU	3.77%	3.77%				3.77%	3.77%			
CORP	0.33%	0.33%				0.33%	0.33%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 2013

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 2014

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 2015

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 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.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	190	190	190	0	434	867	190	624	1,057
Non-Labor	Base YR Rec	18	18	18	0	45	90	18	63	108
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		208	208	208	0	479	957	208	687	1,165
FTE	Base YR Rec	1.2	1.2	1.2	0.0	4.4	8.7	1.2	5.6	9.9

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	

2015 434 45 0 479 4.4 1-Sided Adj

8.7 incremental FTEs related to capital project implementations in 2015 and in 2016.
 Assumes 96% O&C ratio and \$100k average salary plus \$10k per employee in associated NL costs (9 employees).

The implementation of capital projects can include new functions/features/services that increase the support requirements on application support teams. The FTEs represented in this line item are the accumulation of incremental needs that were projected as part of concept document and/or business case development.

2015 Total	434	45	0	479	4.4	
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2016 867 90 0 957 8.7 1-Sided Adj

8.7 incremental FTEs related to capital project implementations in 2015 and in 2016.
 Assumes 96% O&C ratio and \$100k average salary plus \$10k per employee in associated NL costs (9 employees).

The implementation of capital projects can include new functions/features/services that increase the support requirements on application support teams. The FTEs represented in this line item are the accumulation of incremental needs that were projected as part of concept document and/or business case development.

2016 Total	867	90	0	957	8.7	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	110	163
Non-Labor	0	0	0	164	18
NSE	0	0	0	0	0
Total	0	0	0	274	181
FTE	0.0	0.0	0.0	0.7	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	0	0	0	110	163
Non-Labor	0	0	0	164	18
NSE	0	0	0	0	0
Total	0	0	0	274	181
FTE	0.0	0.0	0.0	0.7	1.0
Vacation & Sick (Nominal \$)					
Labor	0	0	0	18	27
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	18	27
FTE	0.0	0.0	0.0	0.1	0.2
Escalation to 2013\$					
Labor	0	0	0	3	0
Non-Labor	0	0	0	4	0
NSE	0	0	0	0	0
Total	0	0	0	6	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	0	0	0	131	190
Non-Labor	0	0	0	167	18
NSE	0	0	0	0	0
Total	0	0	0	298	208
FTE	0.0	0.0	0.0	0.8	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
2016 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	2009	2010	2011	2012	2013
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

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009 Total	0	0	0	0.0			
2010 Total	0	0	0	0.0			
2011 Total	0	0	0	0.0			
2012 Total	0	0	0	0.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2444.000 - SCG SUPPLY CHAIN SERVICES

Southern California Gas Company
2016 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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		313	308	295	360	335	335	335	335	
Non-Labor		16	16	16	18	9	9	9	9	
NSE		0	0	0	0	0	0	0	0	
Total		329	324	311	378	344	344	344	344	
FTE		3.0	3.1	3.0	3.6	3.5	3.5	3.5	3.5	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	335	9	0	344	3.46	335	9	0	344	3.46
Total Incurred	335	9	0	344	3.46	335	9	0	344	3.46
% Allocation										
Retained	60.96%	60.96%				58.32%	58.32%			
SEU	38.25%	38.25%				38.08%	38.08%			
CORP	0.79%	0.79%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	335	9	0	344	3.46	335	9	0	344	3.46
Total Incurred	335	9	0	344	3.46	335	9	0	344	3.46
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 2013

The percentage calculation assumptions are based on the total number of LAN login ID's for SDGE, SCG and parent. This cost center provides database administration 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 2014

The percentage calculation assumptions are based on the total number of LAN login ID's for SDGE, SCG and parent. This cost center provides database administration 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 2015

The percentage calculation assumptions are based on the total number of LAN login ID's for SDGE, SCG and parent. This cost center provides database administration 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 2016

The percentage calculation assumptions are based on the total number of LAN login ID's for SDGE, SCG and parent. This cost center provides database administration 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
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	335	335	335	0	0	0	335	335	335
Non-Labor	Base YR Rec	9	9	9	0	0	0	9	9	9
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		344	344	344	0	0	0	344	344	344
FTE	Base YR Rec	3.5	3.5	3.5	0.0	0.0	0.0	3.5	3.5	3.5

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	287
Non-Labor	0	0	0	0	9
NSE	0	0	0	0	0
Total	0	0	0	0	296
FTE	0.0	0.0	0.0	0.0	3.0
Adjustments (Nominal \$) **					
Labor	247	248	247	308	0
Non-Labor	15	15	15	18	0
NSE	0	0	0	0	0
Total	262	263	262	326	0
FTE	2.6	2.6	2.6	3.1	0.0
Recorded-Adjusted (Nominal \$)					
Labor	247	248	247	308	287
Non-Labor	15	15	15	18	9
NSE	0	0	0	0	0
Total	262	263	262	326	296
FTE	2.6	2.6	2.6	3.1	3.0
Vacation & Sick (Nominal \$)					
Labor	38	39	36	45	48
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	38	39	36	45	48
FTE	0.4	0.5	0.4	0.5	0.5
Escalation to 2013\$					
Labor	28	21	13	8	0
Non-Labor	1	1	1	0	0
NSE	0	0	0	0	0
Total	30	22	13	8	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	313	308	295	360	335
Non-Labor	16	16	16	18	9
NSE	0	0	0	0	0
Total	329	324	311	378	344
FTE	3.0	3.1	3.0	3.6	3.5

* 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
2016 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	2009	2010	2011	2012	2013
Labor	247	248	247	308	0
Non-Labor	15	15	15	18	0
NSE	0	0	0	0	0
Total	262	263	262	326	0
FTE	2.6	2.6	2.6	3.1	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	-247	-15	0	-2.6	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031103044950
IT Employee Transfer from SDGE to SCG as of 2013							
2009	247	15	0	2.6	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031104418897
IT Employee Transfer from SDGE to SCG as of 2013							
2009	247	15	0	2.6	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031105147117
fix prior adjmt made in error							
2009 Total	247	15	0	2.6			
2010	-247	-0.015	0	-2.6	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031103212367
IT Employee Transfer from SDGE to SCG as of 2013							
2010	248	15	0	2.6	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031104506163
IT Employee Transfer from SDGE to SCG as of 2013							
2010	247	0.015	0	2.6	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031105310457
fix prior admnt made in error							
2010 Total	248	15	0	2.6			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	-247	-15	0	-2.6	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031103618560
IT Employee Transfer from SDGE to SCG as of 2013							
2011	247	15	0	2.6	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031104543813
IT Employee Transfer from SDGE to SCG as of 2013							
2011	247	15	0	2.6	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031105407313
fix adjmt made in error							
2011 Total	247	15	0	2.6			
2012	308	18	0	3.1	CCTR Transf	From 2100-3072.000	FFIGUERO20131 031104620837
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	308	18	0	3.1			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2445.000 - SCG WORK MANAGEMENT SERVICES

Southern California Gas Company
2016 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 and New Business Services. Our application services are based on several enterprise systems, including: SAP Plant Maintenance and Click Scheduling and Mobility. In addition, our application services include several prominent legacy systems: Construction Management Systems (CMS) and New Business Management Systems (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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		885	868	904	961	1,008	1,008	1,437	1,866	
Non-Labor		33	32	34	37	163	163	213	243	
NSE		0	0	0	0	0	0	0	0	
Total		918	900	938	998	1,171	1,171	1,650	2,109	
FTE		7.0	7.0	8.1	9.3	9.8	9.8	14.2	18.5	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	12	0	0	12	0.00	12	0	0	12	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	996	163	0	1,159	9.77	996	163	0	1,159	9.77
Total Incurred	1,008	163	0	1,171	9.77	1,008	163	0	1,171	9.77
% Allocation										
Retained	55.68%	55.68%				55.55%	55.55%			
SEU	44.32%	44.32%				44.45%	44.45%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	12	0	0	12	0.00	12	0	0	12	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	1,425	213	0	1,638	14.17	1,854	243	0	2,097	18.47
Total Incurred	1,437	213	0	1,650	14.17	1,866	243	0	2,109	18.47
% Allocation										
Retained	55.55%	55.55%				55.55%	55.55%			
SEU	44.45%	44.45%				44.45%	44.45%			
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
2016 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 2013

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 split 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 2014

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 split 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 2015

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 split 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 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 split 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
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	1,008	1,008	1,008	0	429	858	1,008	1,437	1,866
Non-Labor	Base YR Rec	163	163	163	0	50	80	163	213	243
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		1,171	1,171	1,171	0	479	938	1,171	1,650	2,109
FTE	Base YR Rec	9.8	9.8	9.8	0.0	4.4	8.7	9.8	14.2	18.5

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	

2015 156 20 0 176 1.6 1-Sided Adj

2.2 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 72% O&C ratio and \$100k average salary plus \$10k per employee (2 employees) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2015 273 30 0 303 2.8 1-Sided Adj

3 replacement positions and 2 for Click 8 and 3 software developers and 1 build leader. 5.5 FTEs at \$100k per employee plus \$10k per employee (6 employees) in associated NL (split between 2015 and 2016). Assumes 91% O&C ratio.

Implementation of Click 8 will allow SoCalGas to make its own enhancements to the product rather than depending on vendor releases. Management intends to establish a team to meet business challenges with a faster turnaround time.

2015 Total	429	50	0	479	4.4	
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2016 156 0 0 156 1.6 1-Sided Adj

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>
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2.2 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 72% O&C ratio and \$100k average salary plus \$10k per employee (2 employees) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2016	546	60	0	606	5.5	1-Sided Adj
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3 replacement positions and 2 for Click 8 and 3 software developers and 1 build leader. 5.5 FTEs at \$100k per employee plus \$10k per employee (6 employees) in associated NL (split between 2015 and 2016). Assumes 91% O&C ratio.

Implementation of Click 8 will allow SoCalGas to make its own enhancements to the product rather than depending on vendor releases. Management intends to establish a team to meet business challenges with a faster turnaround time.

2016	156	20	0	176	1.6	1-Sided Adj
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2.2 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 72% O&C ratio and \$100k average salary plus \$10k per employee (2 employees) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2016 Total	858	80	0	938	8.7	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	864
Non-Labor	0	0	0	0	163
NSE	0	0	0	0	0
Total	0	0	0	0	1,027
FTE	0.0	0.0	0.0	0.0	8.4
Adjustments (Nominal \$) **					
Labor	698	698	754	821	0
Non-Labor	30	30	33	36	0
NSE	0	0	0	0	0
Total	728	728	787	857	0
FTE	6.0	6.0	7.0	8.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	698	698	754	821	864
Non-Labor	30	30	33	36	163
NSE	0	0	0	0	0
Total	728	728	787	857	1,027
FTE	6.0	6.0	7.0	8.0	8.4
Vacation & Sick (Nominal \$)					
Labor	108	111	111	119	144
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	108	111	111	119	144
FTE	1.0	1.0	1.1	1.3	1.4
Escalation to 2013\$					
Labor	80	59	38	21	0
Non-Labor	3	2	1	1	0
NSE	0	0	0	0	0
Total	83	61	40	22	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	885	868	904	961	1,008
Non-Labor	33	32	34	37	163
NSE	0	0	0	0	0
Total	918	900	938	998	1,171
FTE	7.0	7.0	8.1	9.3	9.8

* 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
2016 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	2009	2010	2011	2012	2013
Labor	698	698	754	821	0
Non-Labor	30	30	33	36	0
NSE	0	0	0	0	0
Total	728	728	787	857	0
FTE	6.0	6.0	7.0	8.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	698	30	0	6.0	CCTR Transf	From 2100-3088.000	FFIGUERO20131 031121705673
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	698	30	0	6.0			
2010	698	30	0	6.0	CCTR Transf	From 2100-3088.000	FFIGUERO20131 031122049517
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	698	30	0	6.0			
2011	754	33	0	7.0	CCTR Transf	From 2100-3088.000	FFIGUERO20131 031122157597
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	754	33	0	7.0			
2012	821	36	0	8.0	CCTR Transf	From 2100-3088.000	FFIGUERO20131 031122351440
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	821	36	0	8.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2013 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
2016 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 and CAD Applications services for 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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		212	208	255	311	292	292	292	292	
Non-Labor		10	10	13	15	20	20	20	20	
NSE		0	0	0	0	0	0	0	0	
Total		222	218	268	326	312	312	312	312	
FTE		2.3	2.3	2.3	3.5	2.8	2.8	2.8	2.8	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	3	0	3	0.00	0	3	0	3	0.00
Directly Allocated	0	1	0	1	0.00	0	1	0	1	0.00
Subj. To % Alloc.	292	16	0	308	2.77	292	16	0	308	2.77
Total Incurred	292	20	0	312	2.77	292	20	0	312	2.77
% Allocation										
Retained	32.36%	32.36%				60.13%	60.13%			
SEU	67.64%	67.64%				39.87%	39.87%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	3	0	3	0.00	0	3	0	3	0.00
Directly Allocated	0	1	0	1	0.00	0	1	0	1	0.00
Subj. To % Alloc.	292	16	0	308	2.77	292	16	0	308	2.77
Total Incurred	292	20	0	312	2.77	292	20	0	312	2.77
% Allocation										
Retained	60.13%	60.13%				60.13%	60.13%			
SEU	39.87%	39.87%				39.87%	39.87%			
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
2016 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 2013

For 2013 the allocations for supporting the enterprise GIS application used the number of users of the GIS application at each company.

Cost Center Allocation Percentage for 2014

For 2014 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 2015

For 2014 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 2016

For 2014 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
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	292	292	292	0	0	0	292	292	292
Non-Labor	Base YR Rec	20	20	20	0	0	0	20	20	20
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		312	312	312	0	0	0	312	312	312
FTE	Base YR Rec	2.8	2.8	2.8	0.0	0.0	0.0	2.8	2.8	2.8

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	250
Non-Labor	0	0	0	0	20
NSE	0	0	0	0	0
Total	0	0	0	0	270
FTE	0.0	0.0	0.0	0.0	2.4
Adjustments (Nominal \$) **					
Labor	167	167	213	266	0
Non-Labor	9	9	12	15	0
NSE	0	0	0	0	0
Total	176	176	225	281	0
FTE	2.0	2.0	2.0	3.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	167	167	213	266	250
Non-Labor	9	9	12	15	20
NSE	0	0	0	0	0
Total	176	176	225	281	270
FTE	2.0	2.0	2.0	3.0	2.4
Vacation & Sick (Nominal \$)					
Labor	26	27	31	39	42
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	26	27	31	39	42
FTE	0.3	0.3	0.3	0.5	0.4
Escalation to 2013\$					
Labor	19	14	11	7	0
Non-Labor	1	1	1	0	0
NSE	0	0	0	0	0
Total	20	15	11	7	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	212	208	255	311	292
Non-Labor	10	10	13	15	20
NSE	0	0	0	0	0
Total	222	218	268	326	312
FTE	2.3	2.3	2.3	3.5	2.8

* 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
2016 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	2009	2010	2011	2012	2013
Labor	167	167	213	266	0
Non-Labor	9	9	12	15	0
NSE	0	0	0	0	0
Total	176	176	225	281	0
FTE	2.0	2.0	2.0	3.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	167	9	0	2.0	CCTR Transf	From 2100-3093.000	FFIGUERO20131 031124151380
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	167	9	0	2.0			
2010	167	9	0	2.0	CCTR Transf	From 2100-3093.000	FFIGUERO20131 031124251980
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	167	9	0	2.0			
2011	213	12	0	2.0	CCTR Transf	From 2100-3093.000	FFIGUERO20131 031124340870
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	213	12	0	2.0			
2012	266	15	0	3.0	CCTR Transf	From 2100-3093.000	FFIGUERO20131 031124435723
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	266	15	0	3.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

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

Southern California Gas Company
2016 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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		829	917	884	863	912	912	912	912	
Non-Labor		30	32	31	31	70	70	70	70	
NSE		0	0	0	0	0	0	0	0	
Total		859	950	915	894	982	982	982	982	
FTE		5.8	7.0	7.0	7.0	7.5	7.5	7.5	7.5	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	3	67	0	70	0.00	3	67	0	70	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	909	3	0	912	7.50	909	3	0	912	7.50
Total Incurred	912	70	0	982	7.50	912	70	0	982	7.50
% Allocation										
Retained	54.69%	54.69%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.67%	3.67%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	3	67	0	70	0.00	3	67	0	70	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	909	3	0	912	7.50	909	3	0	912	7.50
Total Incurred	912	70	0	982	7.50	912	70	0	982	7.50
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

The percentage calculation assumptions are based on the total number of LAN login ID's for SDGE, SCG and parent. This cost center provides database administration 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 2014

The percentage calculation assumptions are based on the total number of LAN login ID's for SDGE, SCG and parent. This cost center provides database administration 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 2015

The percentage calculation assumptions are based on the total number of LAN login ID's for SDGE, SCG and parent. This cost center provides database administration 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 2016

The percentage calculation assumptions are based on the total number of LAN login ID's for SDGE, SCG and parent. This cost center provides database administration 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
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	912	912	912	0	0	0	912	912	912
Non-Labor	Base YR Rec	70	70	70	0	0	0	70	70	70
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		982	982	982	0	0	0	982	982	982
FTE	Base YR Rec	7.5	7.5	7.5	0.0	0.0	0.0	7.5	7.5	7.5

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	782
Non-Labor	0	0	0	0	70
NSE	0	0	0	0	0
Total	0	0	0	0	852
FTE	0.0	0.0	0.0	0.0	6.4
Adjustments (Nominal \$) **					
Labor	654	738	738	738	0
Non-Labor	27	30	30	30	0
NSE	0	0	0	0	0
Total	681	768	768	768	0
FTE	5.0	6.0	6.0	6.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	654	738	738	738	782
Non-Labor	27	30	30	30	70
NSE	0	0	0	0	0
Total	681	768	768	768	852
FTE	5.0	6.0	6.0	6.0	6.4
Vacation & Sick (Nominal \$)					
Labor	101	117	109	107	130
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	101	117	109	107	130
FTE	0.8	1.0	1.0	1.0	1.1
Escalation to 2013\$					
Labor	75	62	38	19	0
Non-Labor	3	2	1	1	0
NSE	0	0	0	0	0
Total	77	65	39	19	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	829	917	884	863	912
Non-Labor	30	32	31	31	70
NSE	0	0	0	0	0
Total	859	950	915	894	982
FTE	5.8	7.0	7.0	7.0	7.5

* 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
2016 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	2009	2010	2011	2012	2013
Labor	654	738	738	738	0
Non-Labor	27	30	30	30	0
NSE	0	0	0	0	0
Total	681	768	768	768	0
FTE	5.0	6.0	6.0	6.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	654	27	0	5.0	CCTR Transf	From 2100-3091.000	FFIGUERO20131 031123631930
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	654	27	0	5.0			
2010	738	30	0	6.0	CCTR Transf	From 2100-3091.000	FFIGUERO20131 031123733517
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	738	30	0	6.0			
2011	738	30	0	6.0	CCTR Transf	From 2100-3091.000	FFIGUERO20131 031123833363
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	738	30	0	6.0			
2012	738	30	0	6.0	CCTR Transf	From 2100-3091.000	FFIGUERO20131 031123958550
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	738	30	0	6.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2013 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
2016 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:

This cost center includes the 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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		1,368	1,342	2,061	1,263	1,156	1,156	1,156	1,156	
Non-Labor		56	55	85	21	181	181	181	181	
NSE		0	0	0	0	0	0	0	0	
Total		1,424	1,397	2,146	1,284	1,337	1,337	1,337	1,337	
FTE		11.7	11.7	18.6	11.6	10.9	10.9	10.9	10.9	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	1,156	181	0	1,337	10.88	1,156	181	0	1,337	10.88
Total Incurred	1,156	181	0	1,337	10.88	1,156	181	0	1,337	10.88
% Allocation										
Retained	96.61%	96.61%				97.18%	97.18%			
SEU	3.39%	3.39%				2.82%	2.82%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	1,156	181	0	1,337	10.88	1,156	181	0	1,337	10.88
Total Incurred	1,156	181	0	1,337	10.88	1,156	181	0	1,337	10.88
% Allocation										
Retained	97.18%	97.18%				97.18%	97.18%			
SEU	2.82%	2.82%				2.82%	2.82%			
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
2016 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 2013

The allocations are calculated by application systems (MCS ENVOY, SCBS, CCS, and CAT) supported by this cost center and based on the number of 2013 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. 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 2014

The allocations are calculated by application systems (MCS ENVOY, SCBS, CCS, and CAT) supported by this cost center and based on the number of 2013 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. 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 2015

The allocations are calculated by application systems (MCS ENVOY, SCBS, CCS, and CAT) supported by this cost center and based on the number of 2013 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. 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 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 2013 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. 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
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	1,156	1,156	1,156	0	0	0	1,156	1,156	1,156
Non-Labor	Base YR Rec	181	181	181	0	0	0	181	181	181
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		1,337	1,337	1,337	0	0	0	1,337	1,337	1,337
FTE	Base YR Rec	10.9	10.9	10.9	0.0	0.0	0.0	10.9	10.9	10.9

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	991
Non-Labor	0	0	0	0	181
NSE	0	0	0	0	0
Total	0	0	0	0	1,173
FTE	0.0	0.0	0.0	0.0	9.3
Adjustments (Nominal \$) **					
Labor	1,079	1,079	1,720	1,079	0
Non-Labor	51	51	81	21	0
NSE	0	0	0	0	0
Total	1,130	1,130	1,801	1,100	0
FTE	10.0	10.0	16.0	10.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	1,079	1,079	1,720	1,079	991
Non-Labor	51	51	81	21	181
NSE	0	0	0	0	0
Total	1,130	1,130	1,801	1,100	1,173
FTE	10.0	10.0	16.0	10.0	9.3
Vacation & Sick (Nominal \$)					
Labor	167	172	253	156	165
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	167	172	253	156	165
FTE	1.7	1.7	2.6	1.6	1.6
Escalation to 2013\$					
Labor	123	91	88	28	0
Non-Labor	5	4	4	0	0
NSE	0	0	0	0	0
Total	128	95	91	28	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	1,368	1,342	2,061	1,263	1,156
Non-Labor	56	55	85	21	181
NSE	0	0	0	0	0
Total	1,424	1,397	2,146	1,284	1,337
FTE	11.7	11.7	18.6	11.6	10.9

* 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
2016 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	2009	2010	2011	2012	2013
Labor	1,079	1,079	1,720	1,079	0
Non-Labor	51	51	81	21	0
NSE	0	0	0	0	0
Total	1,130	1,130	1,801	1,100	0
FTE	10.0	10.0	16.0	10.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	641	30	0	6.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 031112002920
IT Employee Transfer from SDGE to SCG as of 2013							
2009	299	15	0	3.0	CCTR Transf	From 2100-3083.000	FFIGUERO20131 031113955710
IT Employee Transfer from SDGE to SCG as of 2013							
2009	138	6	0	1.0	CCTR Transf	From 2100-3754.000	FFIGUERO20131 031145637953
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	1,079	51	0	10.0			
2010	641	30	0	6.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 031112101933
IT Employee Transfer from SDGE to SCG as of 2013							
2010	299	15	0	3.0	CCTR Transf	From 2100-3083.000	FFIGUERO20131 031114143000
IT Employee Transfer from SDGE to SCG as of 2013							
2010	138	6	0	1.0	CCTR Transf	From 2100-3754.000	FFIGUERO20131 031145722480
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	1,079	51	0	10.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	641	30	0	6.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 031112144720
IT Employee Transfer from SDGE to SCG as of 2013							
2011	641	30	0	6.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 031112232487
IT Employee Transfer from SDGE to SCG as of 2013							
2011	299	15	0	3.0	CCTR Transf	From 2100-3083.000	FFIGUERO20131 031114230427
IT Employee Transfer from SDGE to SCG as of 2013							
2011	138	6	0	1.0	CCTR Transf	From 2100-3754.000	FFIGUERO20131 031145748963
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	1,720	81	0	16.0			
2012	641	30	0	6.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 031112327313
IT Employee Transfer from SDGE to SCG as of 2013							
2012	299	-15	0	3.0	CCTR Transf	From 2100-3083.000	FFIGUERO20131 031114312693
IT Employee Transfer from SDGE to SCG as of 2013							
2012	138	6	0	1.0	CCTR Transf	From 2100-3754.000	FFIGUERO20131 031145823080
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	1,079	21	0	10.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2452.000 - COLLABORATION SERVCS - SCG

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2452.000 - COLLABORATION SERVCS - SCG

Activity Description:

This cost center provides enterprise documentum and collaboration services for corporate and the utility companies.

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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years	2009	2010	2011	2012	2013	2014	2015	2016		
Labor	254	498	683	667	363	363	363	363		
Non-Labor	7	13	19	18	117	117	117	117		
NSE	0	0	0	0	0	0	0	0		
Total	261	511	702	685	481	481	481	481		
FTE	2.3	4.7	4.7	4.6	2.8	2.8	2.8	2.8		

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2452.000 - COLLABORATION SERVCS - SCG

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	6	0	0	6	0.00	6	0	0	6	0.00
Directly Allocated	0	5	0	5	0.00	0	5	0	5	0.00
Subj. To % Alloc.	357	113	0	470	2.81	357	113	0	470	2.81
Total Incurred	363	118	0	481	2.81	363	118	0	481	2.81
% Allocation										
Retained	36.00%	36.00%				34.00%	34.00%			
SEU	47.00%	47.00%				50.00%	50.00%			
CORP	17.00%	17.00%				16.00%	16.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	6	0	0	6	0.00	6	0	0	6	0.00
Directly Allocated	0	5	0	5	0.00	0	5	0	5	0.00
Subj. To % Alloc.	357	113	0	470	2.81	357	113	0	470	2.81
Total Incurred	363	118	0	481	2.81	363	118	0	481	2.81
% Allocation										
Retained	34.00%	34.00%				34.00%	34.00%			
SEU	50.00%	50.00%				50.00%	50.00%			
CORP	16.00%	16.00%				16.00%	16.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2452.000 - COLLABORATION SERVCS - SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

The allocations are calculated by projecting by systems (Docmentum, Sharepoint) supported by this cost center, the number of employee labor and contractor-agency FTEs supporting the systems. Since these two application/functions are the only source of support in this cost center it is appropriate to determine allocations based on the number of users for each application.

Cost Center Allocation Percentage for 2014

The allocations are calculated by projecting by systems (Docmentum, Sharepoint) supported by this cost center, the number of employee labor and contractor-agency FTEs supporting the systems. Since these two application/functions are the only source of support in this cost center it is appropriate to determine allocations based on the number of users for each application.

Cost Center Allocation Percentage for 2015

The allocations are calculated by projecting by systems (Docmentum, Sharepoint) supported by this cost center, the number of employee labor and contractor-agency FTEs supporting the systems. Since these two application/functions are the only source of support in this cost center it is appropriate to determine allocations based on the number of users for each application.

Cost Center Allocation Percentage for 2016

The allocations are calculated by projecting by systems (Docmentum, Sharepoint) supported by this cost center, the number of employee labor and contractor-agency FTEs supporting the systems. Since these two application/functions are the only source of support in this cost center it is appropriate to determine allocations based on the number of users for each application.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2452.000 - COLLABORATION SERVCS - SCG

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	363	363	363	0	0	0	363	363	363
Non-Labor	Base YR Rec	117	117	117	0	0	0	117	117	117
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		481	481	481	0	0	0	481	481	481
FTE	Base YR Rec	2.8	2.8	2.8	0.0	0.0	0.0	2.8	2.8	2.8

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2452.000 - COLLABORATION SERVCS - SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	311
Non-Labor	0	0	0	0	117
NSE	0	0	0	0	0
Total	0	0	0	0	429
FTE	0.0	0.0	0.0	0.0	2.4
Adjustments (Nominal \$) **					
Labor	200	400	570	570	0
Non-Labor	6	12	18	18	0
NSE	0	0	0	0	0
Total	206	412	588	588	0
FTE	2.0	4.0	4.0	4.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	200	400	570	570	311
Non-Labor	6	12	18	18	117
NSE	0	0	0	0	0
Total	206	412	588	588	429
FTE	2.0	4.0	4.0	4.0	2.4
Vacation & Sick (Nominal \$)					
Labor	31	64	84	83	52
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	31	64	84	83	52
FTE	0.3	0.7	0.7	0.6	0.4
Escalation to 2013\$					
Labor	23	34	29	15	0
Non-Labor	1	1	1	0	0
NSE	0	0	0	0	0
Total	23	35	30	15	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	254	498	683	667	363
Non-Labor	7	13	19	18	117
NSE	0	0	0	0	0
Total	261	511	702	685	481
FTE	2.3	4.7	4.7	4.6	2.8

* 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2452.000 - COLLABORATION SERVCS - SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	200	400	570	570	0
Non-Labor	6	12	18	18	0
NSE	0	0	0	0	0
Total	206	412	588	588	0
FTE	2.0	4.0	4.0	4.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	200	6	0	2.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 105153007700
IT Employee Transfer from SDGE to SCG as of 2013 Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4001 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2009 Total	200	6	0	2.0			
2010	200	6	0	2.0	CCTR Transf	From 2100-4001.000	FFIGUERO20131 031150523280
Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4001 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2010	200	6	0	2.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 105153400750
IT Employee Transfer from SDGE to SCG as of 2013 Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4001 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2010 Total	400	12	0	4.0			
2011	285	9	0	2.0	CCTR Transf	From 2100-4001.000	FFIGUERO20131 031150610683
Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4001 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2452.000 - COLLABORATION SERVCS - SCG

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	285	9	0	2.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 105153443183
IT Employee Transfer from SDGE to SCG as of 2013 Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4001 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2011 Total	570	18	0	4.0			
2012	285	9	0	2.0	CCTR Transf	From 2100-4001.000	FFIGUERO20131 031150728843
Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4001 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2012	285	9	0	2.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 105153529347
IT Employee Transfer from SDGE to SCG as of 2013 Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4001 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2012 Total	570	18	0	4.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2468.000 - CUSTOMER ENGAGEMENT SERVICES

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2468.000 - CUSTOMER ENGAGEMENT SERVICES

Activity Description:

This cost center includes the costs related to customer engagement 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

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		12	12	24	24	16	16	16	16	
Non-Labor		3	3	6	6	1	1	1	1	
NSE		0	0	0	0	0	0	0	0	
Total		15	15	30	30	17	17	17	17	
FTE		0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2468.000 - CUSTOMER ENGAGEMENT SERVICES

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	16	1	0	17	0.16	16	1	0	17	0.17
Total Incurred	16	1	0	17	0.16	16	1	0	17	0.17
% 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%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	16	1	0	17	0.17	16	1	0	17	0.17
Total Incurred	16	1	0	17	0.17	16	1	0	17	0.17
% 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2468.000 - CUSTOMER ENGAGEMENT SERVICES

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

Costs will be allocated based on employees with LAN access @ 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 2014

Costs will be allocated based on employees with LAN access @ 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 2015

Costs will be allocated based on employees with LAN access @ 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 2016

Costs will be allocated based on employees with LAN access @ 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2468.000 - CUSTOMER ENGAGEMENT SERVICES

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	16	16	16	0	0	0	16	16	16
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		17	17	17	0	0	0	17	17	17
FTE	Base YR Rec	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.2

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2468.000 - CUSTOMER ENGAGEMENT SERVICES

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	14
Non-Labor	0	0	0	0	1
NSE	0	0	0	0	0
Total	0	0	0	0	15
FTE	0.0	0.0	0.0	0.0	0.1
Adjustments (Nominal \$) **					
Labor	10	10	20	20	0
Non-Labor	3	3	6	6	0
NSE	0	0	0	0	0
Total	13	13	26	26	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	10	10	20	20	14
Non-Labor	3	3	6	6	1
NSE	0	0	0	0	0
Total	13	13	26	26	15
FTE	0.0	0.0	0.0	0.0	0.1
Vacation & Sick (Nominal \$)					
Labor	1	2	3	3	2
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	1	2	3	3	2
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2013\$					
Labor	1	1	1	1	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	1	1	1	1	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	12	12	24	24	16
Non-Labor	3	3	6	6	1
NSE	0	0	0	0	0
Total	15	15	30	30	17
FTE	0.0	0.0	0.0	0.0	0.1

* 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2468.000 - CUSTOMER ENGAGEMENT SERVICES

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	10	10	20	20	0
Non-Labor	3	3	6	6	0
NSE	0	0	0	0	0
Total	13	13	26	26	0
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	10	3	0	0.0	CCTR Transf	From 2100-3086.000	FFIGUERO20131 031115706627
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	10	3	0	0.0			
2010	10	3	0	0.0	CCTR Transf	From 2100-3086.000	FFIGUERO20131 031115920343
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	10	3	0	0.0			
2011	20	6	0	0.0	CCTR Transf	From 2100-3086.000	FFIGUERO20131 101101030463
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	20	6	0	0.0			
2012	20	6	0	0.0	CCTR Transf	From 2100-3086.000	FFIGUERO20131 101101219313
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	20	6	0	0.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: A. Applications
Category-Sub: 1. Applications
Cost Center: 2200-2468.000 - CUSTOMER ENGAGEMENT SERVICES

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2470.000 - IT INFORMATION MANAGEMENT SCG

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

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

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		739	724	698	495	571	571	571	571	
Non-Labor		43	42	41	40	91	91	91	91	
NSE		0	0	0	0	0	0	0	0	
Total		782	766	739	535	662	662	662	662	
FTE		5.8	5.9	5.8	5.8	5.0	5.0	5.0	5.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	1	0	0	1	0.02	1	0	0	1	0.02
Subj. To % Alloc.	569	91	0	660	5.00	569	91	0	660	5.00
Total Incurred	570	91	0	661	5.02	570	91	0	661	5.02
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	1	0	0	1	0.02	1	0	0	1	0.02
Subj. To % Alloc.	569	91	0	660	5.00	569	91	0	660	5.00
Total Incurred	570	91	0	661	5.02	570	91	0	661	5.02
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

Calculations are based upon LAN ID counts across utilities and the 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 2014

Calculations are based upon LAN ID counts across utilities and the 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 2015

Calculations are based upon LAN ID counts across utilities and the 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 2016

Calculations are based upon LAN ID counts across utilities and the 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
2016 GRC - APP
Shared Services Workpapers

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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	571	571	571	0	0	0	571	571	571
Non-Labor	Base YR Rec	91	91	91	0	0	0	91	91	91
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		662	662	662	0	0	0	662	662	662
FTE	Base YR Rec	5.0	5.0	5.0	0.0	0.0	0.0	5.0	5.0	5.0

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	489
Non-Labor	0	0	0	0	91
NSE	0	0	0	0	0
Total	0	0	0	0	580
FTE	0.0	0.0	0.0	0.0	4.3
Adjustments (Nominal \$) **					
Labor	582	582	582	423	0
Non-Labor	39	39	39	39	0
NSE	0	0	0	0	0
Total	621	621	621	462	0
FTE	5.0	5.0	5.0	5.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	582	582	582	423	489
Non-Labor	39	39	39	39	91
NSE	0	0	0	0	0
Total	621	621	621	462	580
FTE	5.0	5.0	5.0	5.0	4.3
Vacation & Sick (Nominal \$)					
Labor	90	93	86	61	81
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	90	93	86	61	81
FTE	0.8	0.9	0.8	0.8	0.7
Escalation to 2013\$					
Labor	66	49	30	11	0
Non-Labor	4	3	2	1	0
NSE	0	0	0	0	0
Total	70	52	31	12	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	739	724	698	495	571
Non-Labor	43	42	41	40	91
NSE	0	0	0	0	0
Total	782	766	739	535	662
FTE	5.8	5.9	5.8	5.8	5.0

* 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
2016 GRC - APP
Shared Services Workpapers

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

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	582	582	582	423	0
Non-Labor	39	39	39	39	0
NSE	0	0	0	0	0
Total	621	621	621	462	0
FTE	5.0	5.0	5.0	5.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	299	21	0	3.0	CCTR Transf	From 2100-3089.000	FFIGUERO20131 031123118437
IT Employee Transfer from SDGE to SCG as of 2013							
2009	80	6	0	1.0	CCTR Transf	From 2100-3101.000	FFIGUERO20131 031133752180
IT Employee Transfer from SDGE to SCG as of 2013							
2009	50	3	0	0.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144918833
IT Employee Transfer from SDGE to SCG as of 2013							
2009	112	6	0	1.0	CCTR Transf	From 2100-3699.000	FFIGUERO20131 031145221250
IT Employee Transfer from SDGE to SCG as of 2013							
2009	42	3	0	0.0	CCTR Transf	From 2100-3089.000	FFIGUERO20131 10114814200
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	582	39	0	5.0			

2010	299	21	0	3.0	CCTR Transf	From 2100-3089.000	FFIGUERO20131 031123218627
IT Employee Transfer from SDGE to SCG as of 2013							
2010	80	6	0	1.0	CCTR Transf	From 2100-3101.000	FFIGUERO20131 031133837087
IT Employee Transfer from SDGE to SCG as of 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2010	50	3	0	0.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031145004490
IT Employee Transfer from SDGE to SCG as of 2013							
2010	112	6	0	1.0	CCTR Transf	From 2100-3699.000	FFIGUERO20131 031145331483
IT Employee Transfer from SDGE to SCG as of 2013							
2010	42	3	0	0.0	CCTR Transf	From 2100-3089.000	FFIGUERO20131 101114858840
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	582	39	0	5.0			
2011	299	21	0	3.0	CCTR Transf	From 2100-3089.000	FFIGUERO20131 031123321693
IT Employee Transfer from SDGE to SCG as of 2013							
2011	80	6	0	1.0	CCTR Transf	From 2100-3101.000	FFIGUERO20131 031133927840
IT Employee Transfer from SDGE to SCG as of 2013							
2011	50	3	0	0.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031145039010
IT Employee Transfer from SDGE to SCG as of 2013							
2011	112	6	0	1.0	CCTR Transf	From 2100-3699.000	FFIGUERO20131 031145423750
IT Employee Transfer from SDGE to SCG as of 2013							
2011	42	3	0	0.0	CCTR Transf	From 2100-3089.000	FFIGUERO20131 101114929203
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	582	39	0	5.0			
2012	299	21	0	3.0	CCTR Transf	From 2100-3089.000	FFIGUERO20131 031123410370
IT Employee Transfer from SDGE to SCG as of 2013							
2012	-80	6	0	1.0	CCTR Transf	From 2100-3101.000	FFIGUERO20131 031134002053
IT Employee Transfer from SDGE to SCG as of 2013							
2012	50	3	0	0.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031145105477
IT Employee Transfer from SDGE to SCG as of 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
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Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: A. Applications
 Category-Sub: 1. Applications
 Cost Center: 2200-2470.000 - IT INFORMATION MANAGEMENT SCG

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2012	112	6	0	1.0	CCTR Transf	From 2100-3699.000	FFIGUERO20131 031145501217
IT Employee Transfer from SDGE to SCG as of 2013							
2012	42	3	0	0.0	CCTR Transf	From 2100-3089.000	FFIGUERO20131 101115002737
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	423	39	0	5.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Summary for Category: B. Infrastructure

	In 2013\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Labor	4,802	4,802	5,335	5,868
Non-Labor	140	140	710	780
NSE	0	0	0	0
Total	4,942	4,942	6,045	6,648
FTE	47.8	47.8	53.2	59.1

Cost Centers belonging to this Category:

2200-2047.000 IT ACCOUNT MANAGEMENT

Labor	46	46	46	46
Non-Labor	0	0	0	0
NSE	0	0	0	0
Total	46	46	46	46
FTE	0.5	0.5	0.5	0.5

2200-2372.000 DIRECTOR IT SOCALGAS APPLICATIONS

Labor	191	191	352	513
Non-Labor	24	24	44	64
NSE	0	0	0	0
Total	215	215	396	577
FTE	1.1	1.1	2.7	4.3

2200-2406.000 DIRECTOR - COMPUTING INFRASTRUCTURE

Labor	249	249	575	901
Non-Labor	30	30	320	360
NSE	0	0	0	0
Total	279	279	895	1,261
FTE	2.2	2.2	5.5	9.3

2200-2453.000 CLNT TECH & DEPOT SVC-SCG

Labor	217	217	217	217
Non-Labor	4	4	4	4
NSE	0	0	0	0
Total	221	221	221	221
FTE	2.5	2.5	2.5	2.5

2200-2455.000 IT BUSINESS INSIGHT - SCG

Labor	806	806	806	806
Non-Labor	14	14	14	14
NSE	0	0	0	0
Total	820	820	820	820
FTE	9.5	9.5	9.5	9.5

Note: Totals may include rounding differences.

Southern California Gas Company
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Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Cost Center: VARIOUS

In 2013\$ (000) Incurred Costs			
Adjusted-Recorded	Adjusted-Forecast		
2013	2014	2015	2016

2200-2456.000 ENTERPRISE CMMD CTR-SCG

Labor	213	213	213	213
Non-Labor	0	0	0	0
NSE	0	0	0	0
Total	213	213	213	213
FTE	1.9	1.9	1.9	1.9

2200-2457.000 SEMPHLP & IT SRVC MGT - SCG

Labor	145	145	145	145
Non-Labor	4	4	4	4
NSE	0	0	0	0
Total	149	149	149	149
FTE	1.5	1.5	1.5	1.5

2200-2458.000 BUSINESS COMM SERVS-SCG

Labor	105	105	105	105
Non-Labor	6	6	6	6
NSE	0	0	0	0
Total	111	111	111	111
FTE	1.0	1.0	1.0	1.0

2200-2459.000 SCALABLE PLATFORM SERVS - SCG

Labor	186	186	186	186
Non-Labor	1	1	1	1
NSE	0	0	0	0
Total	187	187	187	187
FTE	1.8	1.8	1.8	1.8

2200-2460.000 VOICE ENTERPRISE SUPPORT - SCG

Labor	222	222	222	222
Non-Labor	5	5	5	5
NSE	0	0	0	0
Total	227	227	227	227
FTE	1.7	1.7	1.7	1.7

2200-2463.000 CI OPERATIONS SERVICES SCG

Labor	798	798	798	798
Non-Labor	6	6	6	6
NSE	0	0	0	0
Total	804	804	804	804
FTE	7.6	7.6	7.6	7.6

2200-2464.000 CI COMPUTE SUPPORT SCG

Labor	715	715	715	715
Non-Labor	19	19	19	19
NSE	0	0	0	0
Total	734	734	734	734
FTE	7.3	7.3	7.3	7.3

Note: Totals may include rounding differences.

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

In 2013\$ (000) Incurred Costs			
Adjusted-Recorded	Adjusted-Forecast		
2013	2014	2015	2016

2200-2466.000 CI COMPUTE PROVISIONING SCG

Labor	740	740	740	740
Non-Labor	22	22	22	22
NSE	0	0	0	0
Total	762	762	762	762
FTE	7.8	7.8	7.8	7.8

2200-2467.000 CI STANDARDS

Labor	129	129	129	129
Non-Labor	5	5	5	5
NSE	0	0	0	0
Total	134	134	134	134
FTE	1.1	1.1	1.1	1.1

2200-2495.000 IT PORTFOLIO MANAGEMENT

Labor	40	40	86	132
Non-Labor	0	0	260	270
NSE	0	0	0	0
Total	40	40	346	402
FTE	0.3	0.3	0.8	1.3

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2047.000 - IT ACCOUNT MANAGEMENT

Southern California Gas Company
2016 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:

IT Account Management is a business relationship management function between IT and IT's clients system-wide (Sempra's regulated utilities, Corporate Center). This group represents IT's services to these internal clients in an account management function to assist clients in achieving greater business optimization through the improved and effective use of IT's services. Specific functions include facilitating the resolution of problems where standard processes are not adequate, understanding the business operations and recommending further use of IT or outside technology services to improve the business and/or to save money. Educating clients on the value of IT policies and standards and bringing client needs to IT that would otherwise go unrecognized.

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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		275	351	384	259	46	46	46	46	
Non-Labor		15	33	22	63	0	0	0	0	
NSE		0	0	0	0	0	0	0	0	
Total		290	384	406	321	47	47	47	47	
FTE		2.9	3.9	4.5	3.1	0.5	0.5	0.5	0.5	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	46	0	0	46	0.46	46	0	0	46	0.46
Total Incurred	46	0	0	46	0.46	46	0	0	46	0.46
% Allocation										
Retained	59.00%	59.00%				58.32%	58.32%			
SEU	38.29%	38.29%				38.08%	38.08%			
CORP	2.71%	2.71%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	46	0	0	46	0.46	46	0	0	46	0.46
Total Incurred	46	0	0	46	0.46	46	0	0	46	0.46
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

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 allocations are supported by the rationale that Education, Training and Communication activities of this cost center that are provided to IT employees is a benefit to all users at Sempra Utilities and Parent, since IT employees provide support to all users at Sempra Utilities and Parent.

Cost Center Allocation Percentage for 2014

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 allocations are supported by the rationale that Education, Training and Communication activities of this cost center that are provided to IT employees is a benefit to all users at Sempra Utilities and Parent, since IT employees provide support to all users at Sempra Utilities and Parent.

Cost Center Allocation Percentage for 2015

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 allocations are supported by the rationale that Education, Training and Communication activities of this cost center that are provided to IT employees is a benefit to all users at Sempra Utilities and Parent, since IT employees provide support to all users at Sempra Utilities and Parent.

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 allocations are supported by the rationale that Education, Training and Communication activities of this cost center that are provided to IT employees is a benefit to all users at Sempra Utilities and Parent, since IT employees provide support to all users at Sempra Utilities and Parent.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	46	46	46	0	0	0	46	46	46
Non-Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		47	47	47	0	0	0	47	47	47
FTE	Base YR Rec	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	134	122	82	62	40
Non-Labor	11	25	12	55	0
NSE	0	0	0	0	0
Total	145	147	94	118	40
FTE	1.4	1.3	0.9	0.6	0.4
Adjustments (Nominal \$) **					
Labor	79	158	237	158	0
Non-Labor	3	6	9	6	0
NSE	0	0	0	0	0
Total	82	164	246	164	0
FTE	1.0	2.0	3.0	2.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	213	280	319	220	40
Non-Labor	14	31	21	61	0
NSE	0	0	0	0	0
Total	227	311	340	282	40
FTE	2.4	3.3	3.9	2.6	0.4
Vacation & Sick (Nominal \$)					
Labor	36	47	49	33	7
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	36	47	49	33	7
FTE	0.4	0.6	0.6	0.4	0.1
Escalation to 2013\$					
Labor	25	24	16	6	0
Non-Labor	1	2	1	1	0
NSE	0	0	0	0	0
Total	26	26	17	7	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	275	351	384	259	46
Non-Labor	15	33	22	63	0
NSE	0	0	0	0	0
Total	290	384	406	321	47
FTE	2.8	3.9	4.5	3.0	0.5

* 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
2016 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	2009	2010	2011	2012	2013
Labor	79	158	237	158	0
Non-Labor	3	6	9	6	0
NSE	0	0	0	0	0
Total	82	164	246	164	0
FTE	1.0	2.0	3.0	2.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	79	3	0	1.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 105154218113
IT Employee Transfer from SDGE to SCG as of 2013 Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4003 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2009 Total	79	3	0	1.0			
2010	79	3	0	1.0	CCTR Transf	From 2100-4003.000	FFIGUERO20131 031151031517
Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4003 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2010	79	3	0	1.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 105154247810
IT Employee Transfer from SDGE to SCG as of 2013 Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4003 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2010 Total	158	6	0	2.0			
2011	79	3	0	1.0	CCTR Transf	From 2100-4003.000	FFIGUERO20131 031151258257
Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4003 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
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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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	79	3	0	1.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 105154317213
IT Employee Transfer from SDGE to SCG as of 2013 Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4003 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2011	79	3	0	1.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 105154607187
Duplicate Entry Error							
2011 Total	237	9	0	3.0			
2012	79	3	0	1.0	CCTR Transf	From 2100-4003.000	FFIGUERO20131 031151338347
Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4003 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2012	79	3	0	1.0	CCTR Transf	From 2100-3082.000	FFIGUERO20131 105154347990
IT Employee Transfer from SDGE to SCG as of 2013 Zero out 2010 thru 2013: GRID 2009 Data is Zero Per Finance/delete entries from 2100-4003 for 2010 thru 2013 Entries will now appear in cctr 2100-3082 from 2009 to 2013							
2012 Total	158	6	0	2.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2372.000 - DIRECTOR IT SOCALGAS APPLICATIONS

Southern California Gas Company
2016 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 all of IT&CS, 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 - Base YR Rec

N/A

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		0	0	264	193	191	191	352	513	
Non-Labor		0	0	28	36	24	24	44	64	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	293	229	216	216	397	578	
FTE		0.0	0.0	2.1	1.2	1.1	1.1	2.7	4.3	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	191	24	0	215	1.11	191	24	0	215	1.11
Total Incurred	191	24	0	215	1.11	191	24	0	215	1.11
% Allocation										
Retained	53.62%	53.62%				53.23%	53.23%			
SEU	41.83%	41.83%				40.93%	40.93%			
CORP	3.96%	3.96%				3.81%	3.81%			
Unreg	0.59%	0.59%				2.03%	2.03%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	352	44	0	396	2.71	513	64	0	577	4.31
Total Incurred	352	44	0	396	2.71	513	64	0	577	4.31
% Allocation										
Retained	53.23%	53.23%				53.23%	53.23%			
SEU	40.93%	40.93%				40.93%	40.93%			
CORP	3.81%	3.81%				3.81%	3.81%			
Unreg	2.03%	2.03%				2.03%	2.03%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

The weighted average was taken of all cost centers under the IT & Client Services Department. The weighted average method reflects the level of support.

Cost Center Allocation Percentage for 2014

The weighted average was taken of all cost centers under the IT & Client Services Department. The weighted average method reflects the level of support.

Cost Center Allocation Percentage for 2015

The weighted average was taken of all cost centers under the IT & Client Services Department. The weighted average method reflects the level of support.

Cost Center Allocation Percentage for 2016

The weighted average was taken of all cost centers under the IT & Client Services Department. The weighted average method reflects the level of support.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	191	191	191	0	161	322	191	352	513
Non-Labor	Base YR Rec	24	24	24	0	20	40	24	44	64
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		216	216	216	0	181	362	216	397	578
FTE	Base YR Rec	1.1	1.1	1.1	0.0	1.6	3.2	1.1	2.7	4.3

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	

2015 161 20 0 181 1.6 1-Sided Adj

1.8 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 89% O&C ratio and \$100k average salary plus \$10k per employee (2 employees) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2015 Total	161	20	0	181	1.6	
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2016 161 20 0 181 1.6 1-Sided Adj

1.8 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 89% O&C ratio and \$100k average salary plus \$10k per employee (2 employees) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2016 161 20 0 181 1.6 1-Sided Adj

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
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1.8 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 89% O&C ratio and \$100k average salary plus \$10k per employee (2 employees) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2016 Total	322	40	0	362	3.2	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	217	163	164
Non-Labor	0	0	27	35	24
NSE	0	0	0	0	0
Total	0	0	244	198	188
FTE	0.0	0.0	1.8	1.0	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	0	0	217	163	164
Non-Labor	0	0	27	35	24
NSE	0	0	0	0	0
Total	0	0	244	198	188
FTE	0.0	0.0	1.8	1.0	0.9
Vacation & Sick (Nominal \$)					
Labor	0	0	36	26	27
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	36	26	27
FTE	0.0	0.0	0.3	0.2	0.2
Escalation to 2013\$					
Labor	0	0	11	4	0
Non-Labor	0	0	1	1	0
NSE	0	0	0	0	0
Total	0	0	12	5	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	0	0	264	193	191
Non-Labor	0	0	28	36	24
NSE	0	0	0	0	0
Total	0	0	293	229	216
FTE	0.0	0.0	2.1	1.2	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
2016 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	2009	2010	2011	2012	2013
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

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009 Total	0	0	0	0.0			
2010 Total	0	0	0	0.0			
2011 Total	0	0	0	0.0			
2012 Total	0	0	0	0.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2406.000 - DIRECTOR - COMPUTING INFRASTRUCTURE

Southern California Gas Company
2016 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 includes the Director of IT Computing Infrastructure and his administrative support. Activities include department level management for plan, design, build, implementation and management of system-wide network and telecommunications 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 - Base YR Rec

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		187	183	176	224	249	249	575	901	
Non-Labor		3	3	3	7	30	30	320	360	
NSE		0	0	0	0	0	0	0	0	
Total		190	186	180	231	279	279	895	1,261	
FTE		1.2	1.2	1.2	2.3	2.2	2.2	5.5	9.3	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	249	30	0	279	2.22	249	30	0	279	2.22
Total Incurred	249	30	0	279	2.22	249	30	0	279	2.22
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	575	320	0	895	5.52	901	360	0	1,261	9.32
Total Incurred	575	320	0	895	5.52	901	360	0	1,261	9.32
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

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 2014

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 2015

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 2016

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
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	249	249	249	0	326	652	249	575	901
Non-Labor	Base YR Rec	30	30	30	0	290	330	30	320	360
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		279	279	279	0	616	982	279	895	1,261
FTE	Base YR Rec	2.2	2.2	2.2	0.0	3.3	7.1	2.2	5.5	9.3

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	

2015 326 40 0 366 3.3 1-Sided Adj

Labor & Non-labor costs associated with incremental employees that are part of the organic IT growth to support expanding programs, applications, & infrastructure. Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

4 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 81% O&C ratio and \$100k average salary plus \$10k per employee in associated NL costs.

2015 0 250 0 250 0.0 1-Sided Adj

Network Strategy Development - Develop a five-year network strategy and migration plan to leverage emerging technologies for improved reliability and performance of our network environment.

Management estimate for average consulting engagement (4-6 months) to analyze networking capabilities across 160 manned and unmanned sites.

2015 Total	326	290	0	616	3.3	
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2016 326 40 0 366 3.3 1-Sided Adj

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>
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Labor & Non-labor costs associated with incremental employees that are part of the organic IT growth to support expanding programs, applications, & infrastructure. Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

4 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 81% O&C ratio and \$100k average salary plus \$10k per employee in associated NL costs.

2016	326	40	0	366	3.8	1-Sided Adj
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Labor & Non-labor costs associated with incremental employees that are part of the organic IT growth to support expanding programs, applications, & infrastructure. Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

4 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 81% O&C ratio and \$100k average salary plus \$10k per employee in associated NL costs.

2016	0	250	0	250	0.0	1-Sided Adj
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Network Strategy Development - Develop a five-year network strategy and migration plan to leverage emerging technologies for improved reliability and performance of our network environment.

Management estimate for average consulting engagement (4-6 months) to analyze networking capabilities across 160 manned and unmanned sites.

2016 Total	652	330	0	982	7.1	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	214
Non-Labor	0	0	0	1	30
NSE	0	0	0	0	0
Total	0	0	0	1	244
FTE	0.0	0.0	0.0	0.0	1.9
Adjustments (Nominal \$) **					
Labor	147	147	147	191	0
Non-Labor	3	3	3	6	0
NSE	0	0	0	0	0
Total	150	150	150	197	0
FTE	1.0	1.0	1.0	2.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	147	147	147	191	214
Non-Labor	3	3	3	7	30
NSE	0	0	0	0	0
Total	150	150	150	198	244
FTE	1.0	1.0	1.0	2.0	1.9
Vacation & Sick (Nominal \$)					
Labor	23	23	22	28	36
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	23	23	22	28	36
FTE	0.2	0.2	0.2	0.3	0.3
Escalation to 2013\$					
Labor	17	12	8	5	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	17	13	8	5	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	187	183	176	224	249
Non-Labor	3	3	3	7	30
NSE	0	0	0	0	0
Total	190	186	180	231	279
FTE	1.2	1.2	1.2	2.3	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
2016 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	2009	2010	2011	2012	2013
Labor	147	147	147	191	0
Non-Labor	3	3	3	6	0
NSE	0	0	0	0	0
Total	150	150	150	197	0
FTE	1.0	1.0	1.0	2.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	147	3	0	1.0	CCTR Transf	From 2100-3095.000	FFIGUERO20131 031124855210
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	147	3	0	1.0			
2010	147	3	0	1.0	CCTR Transf	From 2100-3095.000	FFIGUERO20131 031124948890
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	147	3	0	1.0			
2011	147	3	0	1.0	CCTR Transf	From 2100-3095.000	FFIGUERO20131 031125050277
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	147	3	0	1.0			
2012	191	6	0	2.0	CCTR Transf	From 2100-3095.000	FFIGUERO20131 031125149367
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	191	6	0	2.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

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

Southern California Gas Company
2016 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 - Base YR Rec

N/A

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		217	213	205	201	217	217	217	217	
Non-Labor		10	10	9	9	4	4	4	4	
NSE		0	0	0	0	0	0	0	0	
Total		227	223	215	210	221	221	221	221	
FTE		2.3	2.3	2.3	2.3	2.5	2.5	2.5	2.5	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	217	4	0	221	2.50	217	4	0	221	2.50
Total Incurred	217	4	0	221	2.50	217	4	0	221	2.50
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	217	4	0	221	2.50	217	4	0	221	2.50
Total Incurred	217	4	0	221	2.50	217	4	0	221	2.50
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 2013

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 2014

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 2015

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 2016

Note: Totals may include rounding differences.

Southern California Gas Company
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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
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	217	217	217	0	0	0	217	217	217
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		221	221	221	0	0	0	221	221	221
FTE	Base YR Rec	2.5	2.5	2.5	0.0	0.0	0.0	2.5	2.5	2.5

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

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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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	186
Non-Labor	0	0	0	0	4
NSE	0	0	0	0	0
Total	0	0	0	0	190
FTE	0.0	0.0	0.0	0.0	2.1
Adjustments (Nominal \$) **					
Labor	171	171	171	171	0
Non-Labor	9	9	9	9	0
NSE	0	0	0	0	0
Total	180	180	180	180	0
FTE	2.0	2.0	2.0	2.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	171	171	171	171	186
Non-Labor	9	9	9	9	4
NSE	0	0	0	0	0
Total	180	180	180	180	190
FTE	2.0	2.0	2.0	2.0	2.1
Vacation & Sick (Nominal \$)					
Labor	26	27	25	25	31
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	26	27	25	25	31
FTE	0.3	0.3	0.3	0.3	0.4
Escalation to 2013\$					
Labor	20	14	9	4	0
Non-Labor	1	1	0	0	0
NSE	0	0	0	0	0
Total	20	15	9	5	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	217	213	205	201	217
Non-Labor	10	10	9	9	4
NSE	0	0	0	0	0
Total	227	223	215	210	221
FTE	2.3	2.3	2.3	2.3	2.5

* 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
2016 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	2009	2010	2011	2012	2013
Labor	171	171	171	171	0
Non-Labor	9	9	9	9	0
NSE	0	0	0	0	0
Total	180	180	180	180	0
FTE	2.0	2.0	2.0	2.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	171	9	0	2.0	CCTR Transf	From 2100-3097.000	FFIGUERO20131 031130522650
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	171	9	0	2.0			
2010	171	9	0	2.0	CCTR Transf	From 2100-3097.000	FFIGUERO20131 031130632553
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	171	9	0	2.0			
2011	171	9	0	2.0	CCTR Transf	From 2100-3097.000	FFIGUERO20131 031130741580
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	171	9	0	2.0			
2012	171	9	0	2.0	CCTR Transf	From 2100-3097.000	FFIGUERO20131 031130856620
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	171	9	0	2.0			

Note: Totals may include rounding differences.

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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2013 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
2016 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 Distributed Server Environment and Network systems, Scalable Platform Services, Client Technology & Depot Services, SempraHelp & IT Service Management. Also, performs management and administration of leased circuits contracts costs and Telephone invoices.

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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		1,013	1,056	1,017	993	806	806	806	806	
Non-Labor		36	39	38	37	14	14	14	14	
NSE		0	0	0	0	0	0	0	0	
Total		1,049	1,094	1,055	1,030	820	820	820	820	
FTE		10.5	11.7	11.6	11.6	9.5	9.5	9.5	9.5	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	1	0	0	1	0.00	1	0	0	1	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	805	14	0	819	9.46	805	14	0	819	9.46
Total Incurred	806	14	0	820	9.46	806	14	0	820	9.46
% Allocation										
Retained	52.21%	52.21%				56.58%	56.58%			
SEU	41.63%	41.63%				38.23%	38.23%			
CORP	4.65%	4.65%				3.97%	3.97%			
Unreg	1.51%	1.51%				1.22%	1.22%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	1	0	0	1	0.00	1	0	0	1	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	805	14	0	819	9.46	805	14	0	819	9.46
Total Incurred	806	14	0	820	9.46	806	14	0	820	9.46
% Allocation										
Retained	56.58%	56.58%				56.58%	56.58%			
SEU	38.23%	38.23%				38.23%	38.23%			
CORP	3.97%	3.97%				3.97%	3.97%			
Unreg	1.22%	1.22%				1.22%	1.22%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 2013

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. Computer users are provided a LAN ID in order to access and use computing services. Therefore, LAN ID is the most representative determination for the allocation of systems maintenance contract 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 employees and contractors. There is a unique Telephone device ID for every phone device used by the Companies and therefore, the Telephone device count is the most representative determination for the allocation of voice support costs to the Company. The Telephone devices and LAN ID use across companies are then measured on an staff work allocation basis accordingly to the basis of support they provide.

Cost Center Allocation Percentage for 2014

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. Computer users are provided a LAN ID in order to access and use computing services. Therefore, LAN ID is the most representative determination for the allocation of systems maintenance contract 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 employees and contractors. There is a unique Telephone device ID for every phone device used by the Companies and therefore, the Telephone device count is the most representative determination for the allocation of voice support costs to the Company. The Telephone devices and LAN ID use across companies are then measured on an staff work allocation basis accordingly to the basis of support they provide.

Cost Center Allocation Percentage for 2015

Note: Totals may include rounding differences.

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

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. Computer users are provided a LAN ID in order to access and use computing services. Therefore, LAN ID is the most representative determination for the allocation of systems maintenance contract 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 employees and contractors. There is a unique Telephone device ID for every phone device used by the Companies and therefore, the Telephone device count is the most representative determination for the allocation of voice support costs to the Company. The Telephone devices and LAN ID use across companies are then measured on an staff work allocation basis accordingly to the basis of support they provide.

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. Computer users are provided a LAN ID in order to access and use computing services. Therefore, LAN ID is the most representative determination for the allocation of systems maintenance contract 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 employees and contractors. There is a unique Telephone device ID for every phone device used by the Companies and therefore, the Telephone device count is the most representative determination for the allocation of voice support costs to the Company. The Telephone devices and LAN ID use across companies are then measured on an staff work allocation basis accordingly to the basis of support they provide.

Note: Totals may include rounding differences.

Southern California Gas Company
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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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	806	806	806	0	0	0	806	806	806
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		820	820	820	0	0	0	820	820	820
FTE	Base YR Rec	9.5	9.5	9.5	0.0	0.0	0.0	9.5	9.5	9.5

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
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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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	691
Non-Labor	0	0	0	0	14
NSE	0	0	0	0	0
Total	0	0	0	0	705
FTE	0.0	0.0	0.0	0.0	8.1
Adjustments (Nominal \$) **					
Labor	799	849	849	849	0
Non-Labor	33	36	36	36	0
NSE	0	0	0	0	0
Total	832	885	885	885	0
FTE	9.0	10.0	10.0	10.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	799	849	849	849	691
Non-Labor	33	36	36	36	14
NSE	0	0	0	0	0
Total	832	885	885	885	705
FTE	9.0	10.0	10.0	10.0	8.1
Vacation & Sick (Nominal \$)					
Labor	123	135	125	123	115
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	123	135	125	123	115
FTE	1.5	1.7	1.6	1.6	1.4
Escalation to 2013\$					
Labor	91	72	43	22	0
Non-Labor	3	3	2	1	0
NSE	0	0	0	0	0
Total	94	74	45	22	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	1,013	1,056	1,017	993	806
Non-Labor	36	39	38	37	14
NSE	0	0	0	0	0
Total	1,049	1,094	1,055	1,030	820
FTE	10.5	11.7	11.6	11.6	9.5

* 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
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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	2009	2010	2011	2012	2013
Labor	799	849	849	849	0
Non-Labor	33	36	36	36	0
NSE	0	0	0	0	0
Total	832	885	885	885	0
FTE	9.0	10.0	10.0	10.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	89	3	0	1.0	CCTR Transf	From 2100-3097.000	FFIGUERO20131 031131009230
IT Employee Transfer from SDGE to SCG as of 2013							
2009	418	18	0	5.0	CCTR Transf	From 2100-3500.000	FFIGUERO20131 031141516903
IT Employee Transfer from SDGE to SCG as of 2013							
2009	226	9	0	2.0	CCTR Transf	From 2100-3548.000	FFIGUERO20131 031142727327
IT Employee Transfer from SDGE to SCG as of 2013							
2009	66	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144047087
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	799	33	0	9.0			
2010	89	3	0	1.0	CCTR Transf	From 2100-3097.000	FFIGUERO20131 031131110390
IT Employee Transfer from SDGE to SCG as of 2013							
2010	468	21	0	6.0	CCTR Transf	From 2100-3500.000	FFIGUERO20131 031141610440
IT Employee Transfer from SDGE to SCG as of 2013							
2010	226	9	0	2.0	CCTR Transf	From 2100-3548.000	FFIGUERO20131 031142810107
IT Employee Transfer from SDGE to SCG as of 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2010	66	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144117480
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	849	36	0	10.0			
2011	89	3	0	1.0	CCTR Transf	From 2100-3097.000	FFIGUERO20131 031131146817
IT Employee Transfer from SDGE to SCG as of 2013							
2011	468	21	0	6.0	CCTR Transf	From 2100-3500.000	FFIGUERO20131 031141654003
IT Employee Transfer from SDGE to SCG as of 2013							
2011	226	9	0	2.0	CCTR Transf	From 2100-3548.000	FFIGUERO20131 031142851530
IT Employee Transfer from SDGE to SCG as of 2013							
2011	66	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144157123
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	849	36	0	10.0			
2012	89	3	0	1.0	CCTR Transf	From 2100-3097.000	FFIGUERO20131 031131231513
IT Employee Transfer from SDGE to SCG as of 2013							
2012	468	21	0	6.0	CCTR Transf	From 2100-3500.000	FFIGUERO20131 031141726467
IT Employee Transfer from SDGE to SCG as of 2013							
2012	226	9	0	2.0	CCTR Transf	From 2100-3548.000	FFIGUERO20131 031142920657
IT Employee Transfer from SDGE to SCG as of 2013							
2012	66	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144255113
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	849	36	0	10.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2456.000 - ENTERPRISE CMMD CTR-SCG

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2456.000 - ENTERPRISE CMMD CTR-SCG

Activity Description:

This cost center includes the messaging and network activities for support and maintenance of messaging infrastructure, including E-mail, Calendaring, and Instant Messaging, on a system-wide basis across Corporate Center, SDG&E, and So Cal 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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		122	120	211	206	213	213	213	213	
Non-Labor		3	3	6	6	0	0	0	0	
NSE		0	0	0	0	0	0	0	0	
Total		125	123	217	212	214	214	214	214	
FTE		1.2	1.2	2.3	2.3	1.9	1.9	1.9	1.9	

Note: Totals may include rounding differences.

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Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2456.000 - ENTERPRISE CMMD CTR-SCG

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	213	0	0	213	1.87	213	0	0	213	1.87
Total Incurred	213	0	0	213	1.87	213	0	0	213	1.87
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	213	0	0	213	1.87	213	0	0	213	1.87
Total Incurred	213	0	0	213	1.87	213	0	0	213	1.87
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
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Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2456.000 - ENTERPRISE CMMD CTR-SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This cost center provides Network Service Delivery activities for computer users at SDGE, SCG and Parent. Computer users are provided a LAN ID in order to access and use computing services. Therefore, LAN ID is the most representative determination for the allocation of Network Service Delivery 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 employees and contractors.

Cost Center Allocation Percentage for 2014

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This cost center provides Network Service Delivery activities for computer users at SDGE, SCG and Parent. Computer users are provided a LAN ID in order to access and use computing services. Therefore, LAN ID is the most representative determination for the allocation of Network Service Delivery 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 employees and contractors.

Cost Center Allocation Percentage for 2015

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This cost center provides Network Service Delivery activities for computer users at SDGE, SCG and Parent. Computer users are provided a LAN ID in order to access and use computing services. Therefore, LAN ID is the most representative determination for the allocation of Network Service Delivery 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 employees and contractors.

Cost Center Allocation Percentage for 2016

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This cost center provides Network Service Delivery activities for computer users at SDGE, SCG and Parent. Computer users are provided a LAN ID in order to access and use computing services. Therefore, LAN ID is the most representative determination for the allocation of Network Service Delivery 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 employees and contractors.

Note: Totals may include rounding differences.

Southern California Gas Company
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Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2456.000 - ENTERPRISE CMMD CTR-SCG

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	213	213	213	0	0	0	213	213	213
Non-Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		214	214	214	0	0	0	214	214	214
FTE	Base YR Rec	1.9	1.9	1.9	0.0	0.0	0.0	1.9	1.9	1.9

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2456.000 - ENTERPRISE CMMD CTR-SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	183
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	183
FTE	0.0	0.0	0.0	0.0	1.6
Adjustments (Nominal \$) **					
Labor	96	96	176	176	0
Non-Labor	3	3	6	6	0
NSE	0	0	0	0	0
Total	99	99	182	182	0
FTE	1.0	1.0	2.0	2.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	96	96	176	176	183
Non-Labor	3	3	6	6	0
NSE	0	0	0	0	0
Total	99	99	182	182	183
FTE	1.0	1.0	2.0	2.0	1.6
Vacation & Sick (Nominal \$)					
Labor	15	15	26	26	30
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	15	15	26	26	30
FTE	0.2	0.2	0.3	0.3	0.3
Escalation to 2013\$					
Labor	11	8	9	4	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	11	8	9	5	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	122	120	211	206	213
Non-Labor	3	3	6	6	0
NSE	0	0	0	0	0
Total	125	123	217	212	214
FTE	1.2	1.2	2.3	2.3	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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2456.000 - ENTERPRISE CMMD CTR-SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	96	96	176	176	0
Non-Labor	3	3	6	6	0
NSE	0	0	0	0	0
Total	99	99	182	182	0
FTE	1.0	1.0	2.0	2.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	96	3	0	1.0	CCTR Transf	From 2100-3502.000	FFIGUERO20131 031141825697
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	96	3	0	1.0			
2010	96	3	0	1.0	CCTR Transf	From 2100-3502.000	FFIGUERO20131 031141901040
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	96	3	0	1.0			
2011	80	3	0	1.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031125343227
IT Employee Transfer from SDGE to SCG as of 2013							
2011	96	3	0	1.0	CCTR Transf	From 2100-3502.000	FFIGUERO20131 031141945323
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	176	6	0	2.0			
2012	80	3	0	1.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031125436653
IT Employee Transfer from SDGE to SCG as of 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
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 Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2456.000 - ENTERPRISE CMMD CTR-SCG

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2012	96	3	0	1.0	CCTR Transf	From 2100-3502.000	FFIGUERO20131 031142021560

IT Employee Transfer from SDGE to SCG as of 2013

2012 Total	176	6	0	2.0			
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2013 Total	0	0	0	0.0			
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Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2457.000 - SEMPHLP & IT SRVC MGT - SCG

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2457.000 - SEMPHLP & IT SRVC MGT - SCG

Activity Description:

This cost center manages IT help desk services and outsourced distributed computing contract. It provides service level reporting and outage management process guidance for IT.

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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		0	0	0	0	145	145	145	145	
Non-Labor		0	0	0	0	4	4	4	4	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	0	150	150	150	150	
FTE		0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	

Note: Totals may include rounding differences.

Southern California Gas Company
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Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2457.000 - SEMPLHP & IT SRVC MGT - SCG

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	145	4	0	149	1.51	145	4	0	149	1.51
Total Incurred	145	4	0	149	1.51	145	4	0	149	1.51
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	145	4	0	149	1.51	145	4	0	149	1.51
Total Incurred	145	4	0	149	1.51	145	4	0	149	1.51
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2457.000 - SEMPLHP & IT SRVC MGT - SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This 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 2014

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This 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 2015

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This 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 2016

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This 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
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Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2457.000 - SEMPHLP & IT SRVC MGT - SCG

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	145	145	145	0	0	0	145	145	145
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		150	150	150	0	0	0	150	150	150
FTE	Base YR Rec	1.5	1.5	1.5	0.0	0.0	0.0	1.5	1.5	1.5

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
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Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2457.000 - SEMPHLP & IT SRVC MGT - SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	125
Non-Labor	0	0	0	0	4
NSE	0	0	0	0	0
Total	0	0	0	0	129
FTE	0.0	0.0	0.0	0.0	1.3
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	125
Non-Labor	0	0	0	0	4
NSE	0	0	0	0	0
Total	0	0	0	0	129
FTE	0.0	0.0	0.0	0.0	1.3
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	21
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	21
FTE	0.0	0.0	0.0	0.0	0.2
Escalation to 2013\$					
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 2013\$)					
Labor	0	0	0	0	145
Non-Labor	0	0	0	0	4
NSE	0	0	0	0	0
Total	0	0	0	0	150
FTE	0.0	0.0	0.0	0.0	1.5

* 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2457.000 - SEMPHLP & IT SRVC MGT - SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
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

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009 Total	0	0	0	0.0			
2010 Total	0	0	0	0.0			
2011 Total	0	0	0	0.0			
2012 Total	0	0	0	0.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2458.000 - BUSINESS COMM SERVS-SCG

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Activity Description:

This cost center supports the 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 So Cal 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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		81	79	77	75	105	105	105	105	
Non-Labor		3	3	3	3	6	6	6	6	
NSE		0	0	0	0	0	0	0	0	
Total		84	83	80	78	111	111	111	111	
FTE		1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	3	0	0	3	0.00	3	0	0	3	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	102	6	0	108	0.99	102	6	0	108	0.99
Total Incurred	105	6	0	111	0.99	105	6	0	111	0.99
% Allocation										
Retained	54.70%	54.70%				38.61%	38.61%			
SEU	41.64%	41.64%				47.74%	47.74%			
CORP	3.66%	3.66%				13.65%	13.65%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	3	0	0	3	0.00	3	0	0	3	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	102	6	0	108	0.99	102	6	0	108	0.99
Total Incurred	105	6	0	111	0.99	105	6	0	111	0.99
% Allocation										
Retained	38.61%	38.61%				38.61%	38.61%			
SEU	47.74%	47.74%				47.74%	47.74%			
CORP	13.65%	13.65%				13.65%	13.65%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

The percentage calculation assumptions are based on two metrics: SharePoint license & storage count for two Utilities and Parent; and total LAN ID counts for two Utilities and Parent. The SharePoint license count was based on the number user licenses and storage websites for SharePoint services. The study conducted used the two metrics in a dept survey, and each employee is weighted by the amount of support they provide based on LAN ID's vs SharePoint counts.

Cost Center Allocation Percentage for 2014

The percentage calculation assumptions are based on two metrics: SharePoint license & storage count for two Utilities and Parent; and total LAN ID counts for two Utilities and Parent. The SharePoint license count was based on the number user licenses and storage websites for SharePoint services. The study conducted used the two metrics in a dept survey, and each employee is weighted by the amount of support they provide based on LAN ID's vs SharePoint counts.

Cost Center Allocation Percentage for 2015

The percentage calculation assumptions are based on two metrics: SharePoint license & storage count for two Utilities and Parent; and total LAN ID counts for two Utilities and Parent. The SharePoint license count was based on the number user licenses and storage websites for SharePoint services. The study conducted used the two metrics in a dept survey, and each employee is weighted by the amount of support they provide based on LAN ID's vs SharePoint counts.

Cost Center Allocation Percentage for 2016

The percentage calculation assumptions are based on two metrics: SharePoint license & storage count for two Utilities and Parent; and total LAN ID counts for two Utilities and Parent. The SharePoint license count was based on the number user licenses and storage websites for SharePoint services. The study conducted used the two metrics in a dept survey, and each employee is weighted by the amount of support they provide based on LAN ID's vs SharePoint counts.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	105	105	105	0	0	0	105	105	105
Non-Labor	Base YR Rec	6	6	6	0	0	0	6	6	6
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		111	111	111	0	0	0	111	111	111
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:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	90
Non-Labor	0	0	0	0	6
NSE	0	0	0	0	0
Total	0	0	0	0	96
FTE	0.0	0.0	0.0	0.0	0.8
Adjustments (Nominal \$) **					
Labor	64	64	64	64	0
Non-Labor	3	3	3	3	0
NSE	0	0	0	0	0
Total	67	67	67	67	0
FTE	1.0	1.0	1.0	1.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	64	64	64	64	90
Non-Labor	3	3	3	3	6
NSE	0	0	0	0	0
Total	67	67	67	67	96
FTE	1.0	1.0	1.0	1.0	0.8
Vacation & Sick (Nominal \$)					
Labor	10	10	9	9	15
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	10	10	9	9	15
FTE	0.2	0.2	0.2	0.2	0.1
Escalation to 2013\$					
Labor	7	5	3	2	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	8	6	3	2	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	81	79	77	75	105
Non-Labor	3	3	3	3	6
NSE	0	0	0	0	0
Total	84	83	80	78	111
FTE	1.2	1.2	1.2	1.2	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
2016 GRC - APP
Shared Services Workpapers

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

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs						
Years	2009	2010	2011	2012		
Labor	64	64	64	64	0	0
Non-Labor	3	3	3	3	0	0
NSE	0	0	0	0	0	0
Total	67	67	67	67	0	0
FTE	1.0	1.0	1.0	1.0	0.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	64	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144408893
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	64	3	0	1.0			
2010	64	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144439237
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	64	3	0	1.0			
2011	64	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144523160
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	64	3	0	1.0			
2012	64	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144554233
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	64	3	0	1.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2459.000 - SCALABLE PLATFORM SERVS - SCG

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2459.000 - SCALABLE PLATFORM SERVS - SCG

Activity Description:

This cost center includes the infrastructure engineering support for the following systems: email, Gateways, FTP, Enterprise System Management, middleware and Internet technologies such as directories and web and application servers.

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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		0	0	0	0	186	186	186	186	
Non-Labor		0	0	0	0	1	1	1	1	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	0	187	187	187	187	
FTE		0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2459.000 - SCALABLE PLATFORM SERVS - SCG

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	186	1	0	187	1.83	186	1	0	187	1.83
Total Incurred	186	1	0	187	1.83	186	1	0	187	1.83
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	186	1	0	187	1.83	186	1	0	187	1.83
Total Incurred	186	1	0	187	1.83	186	1	0	187	1.83
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2459.000 - SCALABLE PLATFORM SERVS - SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This cost center provides Scalable Platform Services support 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 this cost center. 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 2014

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This cost center provides Scalable Platform Services support 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 this cost center. 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 2015

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This cost center provides Scalable Platform Services support 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 this cost center. 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 2016

The percentage calculation assumptions are based on the total number of LAN ID counts for SDG&E, SoCal Gas and Parent (Corporate Center) compared to the total number of LAN IDs for these Business Units. This cost center provides Scalable Platform Services support 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 this cost center. 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2459.000 - SCALABLE PLATFORM SERVS - SCG

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	186	186	186	0	0	0	186	186	186
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		187	187	187	0	0	0	187	187	187
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:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2459.000 - SCALABLE PLATFORM SERVS - SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	159
Non-Labor	0	0	0	0	1
NSE	0	0	0	0	0
Total	0	0	0	0	160
FTE	0.0	0.0	0.0	0.0	1.6
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	159
Non-Labor	0	0	0	0	1
NSE	0	0	0	0	0
Total	0	0	0	0	160
FTE	0.0	0.0	0.0	0.0	1.6
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	26
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	26
FTE	0.0	0.0	0.0	0.0	0.3
Escalation to 2013\$					
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 2013\$)					
Labor	0	0	0	0	186
Non-Labor	0	0	0	0	1
NSE	0	0	0	0	0
Total	0	0	0	0	187
FTE	0.0	0.0	0.0	0.0	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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2459.000 - SCALABLE PLATFORM SERVS - SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
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

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009 Total	0	0	0	0.0			
2010 Total	0	0	0	0.0			
2011 Total	0	0	0	0.0			
2012 Total	0	0	0	0.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2460.000 - VOICE ENTERPRISE SUPPORT - SCG

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2460.000 - VOICE ENTERPRISE SUPPORT - SCG

Activity Description:

This Cost Center is for the enterprise voice support services at SoCalGas.

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 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		116	114	110	107	222	222	222	222	
Non-Labor		3	3	3	3	5	5	5	5	
NSE		0	0	0	0	0	0	0	0	
Total		120	117	113	110	227	227	227	227	
FTE		1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2460.000 - VOICE ENTERPRISE SUPPORT - SCG

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	222	5	0	227	1.74	222	5	0	227	1.74
Total Incurred	222	5	0	227	1.74	222	5	0	227	1.74
% Allocation										
Retained	44.91%	44.91%				45.13%	45.13%			
SEU	41.60%	41.60%				39.20%	39.20%			
CORP	7.56%	7.56%				6.39%	6.39%			
Unreg	5.93%	5.93%				9.28%	9.28%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	222	5	0	227	1.74	222	5	0	227	1.74
Total Incurred	222	5	0	227	1.74	222	5	0	227	1.74
% Allocation										
Retained	45.13%	45.13%				45.13%	45.13%			
SEU	39.20%	39.20%				39.20%	39.20%			
CORP	6.39%	6.39%				6.39%	6.39%			
Unreg	9.28%	9.28%				9.28%	9.28%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2460.000 - VOICE ENTERPRISE SUPPORT - SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

This cost center costs are for Voice Managed Services that support voice communications functions for Telecommunications device users at SDGE, SCG, Parent and Non-Reg Companies. There is a unique Telephone device ID for every phone device used by the Companies and therefore, the Telephone device count is the most representative determination for the allocation of voice support costs to the Company.

Cost Center Allocation Percentage for 2014

This cost center costs are for Voice Managed Services that support voice communications functions for Telecommunications device users at SDGE, SCG, Parent and Non-Reg Companies. There is a unique Telephone device ID for every phone device used by the Companies and therefore, the Telephone device count is the most representative determination for the allocation of voice support costs to the Company.

Cost Center Allocation Percentage for 2015

This cost center costs are for Voice Managed Services that support voice communications functions for Telecommunications device users at SDGE, SCG, Parent and Non-Reg Companies. There is a unique Telephone device ID for every phone device used by the Companies and therefore, the Telephone device count is the most representative determination for the allocation of voice support costs to the Company.

Cost Center Allocation Percentage for 2016

This cost center costs are for Voice Managed Services that support voice communications functions for Telecommunications device users at SDGE, SCG, Parent and Non-Reg Companies. There is a unique Telephone device ID for every phone device used by the Companies and therefore, the Telephone device count is the most representative determination for the allocation of voice support costs to the Company.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2460.000 - VOICE ENTERPRISE SUPPORT - SCG

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	222	222	222	0	0	0	222	222	222
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		227	227	227	0	0	0	227	227	227
FTE	Base YR Rec	1.7	1.7	1.7	0.0	0.0	0.0	1.7	1.7	1.7

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2460.000 - VOICE ENTERPRISE SUPPORT - SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	191
Non-Labor	0	0	0	0	5
NSE	0	0	0	0	0
Total	0	0	0	0	196
FTE	0.0	0.0	0.0	0.0	1.5
Adjustments (Nominal \$) **					
Labor	92	92	92	92	0
Non-Labor	3	3	3	3	0
NSE	0	0	0	0	0
Total	95	95	95	95	0
FTE	1.0	1.0	1.0	1.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	92	92	92	92	191
Non-Labor	3	3	3	3	5
NSE	0	0	0	0	0
Total	95	95	95	95	196
FTE	1.0	1.0	1.0	1.0	1.5
Vacation & Sick (Nominal \$)					
Labor	14	15	13	13	32
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	14	15	13	13	32
FTE	0.2	0.2	0.2	0.2	0.3
Escalation to 2013\$					
Labor	10	8	5	2	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	11	8	5	2	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	116	114	110	107	222
Non-Labor	3	3	3	3	5
NSE	0	0	0	0	0
Total	120	117	113	110	227
FTE	1.2	1.2	1.2	1.2	1.8

* 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2460.000 - VOICE ENTERPRISE SUPPORT - SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs						
Years	2009	2010	2011	2012		
Labor	92	92	92	92		
Non-Labor	3	3	3	3		
NSE	0	0	0	0		
Total	95	95	95	95		
FTE	1.0	1.0	1.0	1.0	0.0	

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	92	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144654407
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	92	3	0	1.0			
2010	92	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144724570
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	92	3	0	1.0			
2011	92	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144800343
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	92	3	0	1.0			
2012	92	3	0	1.0	CCTR Transf	From 2100-3684.000	FFIGUERO20131 031144831660
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	92	3	0	1.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2460.000 - VOICE ENTERPRISE SUPPORT - SCG

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2463.000 - CI OPERATIONS SERVICES SCG

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2463.000 - CI OPERATIONS SERVICES SCG

Activity Description:

This group is responsible for operating processes, monitoring and maintaining of the Enterprise and Distributive delivery infrastructures. This operational support structure is in place to insure business service levels are attained while being cost efficient. In addition, this organization is capable of identifying services outages and provide a resolution process for first and second level problem tiers.

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

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		996	977	941	919	798	798	798	798	
Non-Labor		33	29	31	31	6	6	6	6	
NSE		0	0	0	0	0	0	0	0	
Total		1,029	1,006	972	950	803	803	803	803	
FTE		10.5	10.6	10.5	10.5	7.6	7.6	7.6	7.6	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2463.000 - CI OPERATIONS SERVICES SCG

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	798	6	0	804	7.58	798	6	0	804	7.58
Total Incurred	798	6	0	804	7.58	798	6	0	804	7.58
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	798	6	0	804	7.58	798	6	0	804	7.58
Total Incurred	798	6	0	804	7.58	798	6	0	804	7.58
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2463.000 - CI OPERATIONS SERVICES SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

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 2014

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 2015

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 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.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2463.000 - CI OPERATIONS SERVICES SCG

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	798	798	798	0	0	0	798	798	798
Non-Labor	Base YR Rec	6	6	6	0	0	0	6	6	6
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		803	803	803	0	0	0	803	803	803
FTE	Base YR Rec	7.6	7.6	7.6	0.0	0.0	0.0	7.6	7.6	7.6

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2463.000 - CI OPERATIONS SERVICES SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	684
Non-Labor	0	0	0	0	6
NSE	0	0	0	0	0
Total	0	0	0	0	690
FTE	0.0	0.0	0.0	0.0	6.5
Adjustments (Nominal \$) **					
Labor	785	785	785	785	0
Non-Labor	30	27	30	30	0
NSE	0	0	0	0	0
Total	815	812	815	815	0
FTE	9.0	9.0	9.0	9.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	785	785	785	785	684
Non-Labor	30	27	30	30	6
NSE	0	0	0	0	0
Total	815	812	815	815	690
FTE	9.0	9.0	9.0	9.0	6.5
Vacation & Sick (Nominal \$)					
Labor	121	125	116	114	114
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	121	125	116	114	114
FTE	1.5	1.6	1.5	1.5	1.1
Escalation to 2013\$					
Labor	90	66	40	20	0
Non-Labor	3	2	1	1	0
NSE	0	0	0	0	0
Total	93	68	41	21	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	996	977	941	919	798
Non-Labor	33	29	31	31	6
NSE	0	0	0	0	0
Total	1,029	1,006	972	950	803
FTE	10.5	10.6	10.5	10.5	7.6

* 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2463.000 - CI OPERATIONS SERVICES SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	785	785	785	785	0
Non-Labor	30	27	30	30	0
NSE	0	0	0	0	0
Total	815	812	815	815	0
FTE	9.0	9.0	9.0	9.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	77	3	0	1.0	CCTR Transf	From 2100-3098.000	FFIGUERO20131 031131349057
IT Employee Transfer from SDGE to SCG as of 2013							
2009	73	3	0	1.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031132210050
IT Employee Transfer from SDGE to SCG as of 2013							
2009	71	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134104543
IT Employee Transfer from SDGE to SCG as of 2013							
2009	236	9	0	2.0	CCTR Transf	From 2100-3107.000	FFIGUERO20131 031135205817
IT Employee Transfer from SDGE to SCG as of 2013							
2009	94	3	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031135728137
IT Employee Transfer from SDGE to SCG as of 2013							
2009	130	6	0	2.0	CCTR Transf	From 2100-3544.000	FFIGUERO20131 031142137857
IT Employee Transfer from SDGE to SCG as of 2013							
2009	105	3	0	1.0	CCTR Transf	From 2100-3682.000	FFIGUERO20131 031143105737
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	785	30	0	9.0			

Note: Totals may include rounding differences.

Southern California Gas Company
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Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2463.000 - CI OPERATIONS SERVICES SCG

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2010	77	3	0	1.0	CCTR Transf	From 2100-3098.000	FFIGUERO20131 031131431060
IT Employee Transfer from SDGE to SCG as of 2013							
2010	73	3	0	1.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031132257350
IT Employee Transfer from SDGE to SCG as of 2013							
2010	71	0.001	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134141490
IT Employee Transfer from SDGE to SCG as of 2013							
2010	236	9	0	2.0	CCTR Transf	From 2100-3107.000	FFIGUERO20131 031135241240
IT Employee Transfer from SDGE to SCG as of 2013							
2010	94	3	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031135840770
IT Employee Transfer from SDGE to SCG as of 2013							
2010	130	6	0	2.0	CCTR Transf	From 2100-3544.000	FFIGUERO20131 031142204917
IT Employee Transfer from SDGE to SCG as of 2013							
2010	105	3	0	1.0	CCTR Transf	From 2100-3682.000	FFIGUERO20131 031143159047
IT Employee Transfer from SDGE to SCG as of 2013							

2010 Total	785	27	0	9.0			
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2011	77	3	0	1.0	CCTR Transf	From 2100-3098.000	FFIGUERO20131 031131548537
IT Employee Transfer from SDGE to SCG as of 2013							
2011	73	3	0	1.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031132407967
IT Employee Transfer from SDGE to SCG as of 2013							
2011	71	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134338783
IT Employee Transfer from SDGE to SCG as of 2013							
2011	236	9	0	2.0	CCTR Transf	From 2100-3107.000	FFIGUERO20131 031135330593
IT Employee Transfer from SDGE to SCG as of 2013							
2011	94	3	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031135921700
IT Employee Transfer from SDGE to SCG as of 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
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Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2463.000 - CI OPERATIONS SERVICES SCG

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	130	6	0	2.0	CCTR Transf	From 2100-3544.000	FFIGUERO20131 031142258927
IT Employee Transfer from SDGE to SCG as of 2013							
2011	105	3	0	1.0	CCTR Transf	From 2100-3682.000	FFIGUERO20131 031143241693
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	785	30	0	9.0			
2012	77	3	0	1.0	CCTR Transf	From 2100-3098.000	FFIGUERO20131 031131649047
IT Employee Transfer from SDGE to SCG as of 2013							
2012	73	3	0	1.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031132451657
IT Employee Transfer from SDGE to SCG as of 2013							
2012	71	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134441540
IT Employee Transfer from SDGE to SCG as of 2013							
2012	236	9	0	2.0	CCTR Transf	From 2100-3107.000	FFIGUERO20131 031135409890
IT Employee Transfer from SDGE to SCG as of 2013							
2012	94	3	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140009180
IT Employee Transfer from SDGE to SCG as of 2013							
2012	130	6	0	2.0	CCTR Transf	From 2100-3544.000	FFIGUERO20131 031142328063
IT Employee Transfer from SDGE to SCG as of 2013							
2012	105	3	0	1.0	CCTR Transf	From 2100-3682.000	FFIGUERO20131 031143321297
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	785	30	0	9.0			
2013 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
2016 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 - Base YR Rec

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		561	551	617	602	715	715	715	715	
Non-Labor		20	19	22	21	19	19	19	19	
NSE		0	0	0	0	0	0	0	0	
Total		581	570	639	624	734	734	734	734	
FTE		5.8	5.9	7.0	7.0	7.3	7.3	7.3	7.3	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	715	19	0	734	7.25	715	19	0	734	7.25
Total Incurred	715	19	0	734	7.25	715	19	0	734	7.25
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	715	19	0	734	7.25	715	19	0	734	7.25
Total Incurred	715	19	0	734	7.25	715	19	0	734	7.25
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 2013

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 2014

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 2015

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 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.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	715	715	715	0	0	0	715	715	715
Non-Labor	Base YR Rec	19	19	19	0	0	0	19	19	19
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		734	734	734	0	0	0	734	734	734
FTE	Base YR Rec	7.3	7.3	7.3	0.0	0.0	0.0	7.3	7.3	7.3

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	613
Non-Labor	0	0	0	0	19
NSE	0	0	0	0	0
Total	0	0	0	0	632
FTE	0.0	0.0	0.0	0.0	6.2
Adjustments (Nominal \$) **					
Labor	443	443	515	515	0
Non-Labor	18	18	21	21	0
NSE	0	0	0	0	0
Total	461	461	536	536	0
FTE	5.0	5.0	6.0	6.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	443	443	515	515	613
Non-Labor	18	18	21	21	19
NSE	0	0	0	0	0
Total	461	461	536	536	632
FTE	5.0	5.0	6.0	6.0	6.2
Vacation & Sick (Nominal \$)					
Labor	68	70	76	75	102
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	68	70	76	75	102
FTE	0.8	0.9	1.0	1.0	1.0
Escalation to 2013\$					
Labor	50	37	26	13	0
Non-Labor	2	1	1	0	0
NSE	0	0	0	0	0
Total	52	39	27	14	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	561	551	617	602	715
Non-Labor	20	19	22	21	19
NSE	0	0	0	0	0
Total	581	570	639	624	734
FTE	5.8	5.9	7.0	7.0	7.2

* 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
2016 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	2009	2010	2011	2012	2013
Labor	443	443	515	515	0
Non-Labor	18	18	21	21	0
NSE	0	0	0	0	0
Total	461	461	536	536	0
FTE	5.0	5.0	6.0	6.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	246	9	0	2.0	CCTR Transf	From 2100-3098.000	FFIGUERO20131 031131811980
IT Employee Transfer from SDGE to SCG as of 2013							
2009	65	3	0	1.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031132649260
IT Employee Transfer from SDGE to SCG as of 2013							
2009	70	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134557253
IT Employee Transfer from SDGE to SCG as of 2013							
2009	62	3	0	1.0	CCTR Transf	From 2100-3107.000	FFIGUERO20131 031135501147
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	443	18	0	5.0			
2010	246	9	0	2.0	CCTR Transf	From 2100-3098.000	FFIGUERO20131 031131848607
IT Employee Transfer from SDGE to SCG as of 2013							
2010	65	3	0	1.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031132728263
IT Employee Transfer from SDGE to SCG as of 2013							
2010	70	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134629943
IT Employee Transfer from SDGE to SCG as of 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2010	62	3	0	1.0	CCTR Transf	From 2100-3107.000	FFIGUERO20131 031135539200

IT Employee Transfer from SDGE to SCG as of 2013

2010 Total	443	18	0	5.0			
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2011	246	9	0	2.0	CCTR Transf	From 2100-3098.000	FFIGUERO20131 031131941277
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IT Employee Transfer from SDGE to SCG as of 2013

2011	65	3	0	1.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031132814997
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IT Employee Transfer from SDGE to SCG as of 2013

2011	70	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134713830
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IT Employee Transfer from SDGE to SCG as of 2013

2011	62	3	0	1.0	CCTR Transf	From 2100-3107.000	FFIGUERO20131 031135602730
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IT Employee Transfer from SDGE to SCG as of 2013

2011	72	3	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140151833
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IT Employee Transfer from SDGE to SCG as of 2013

2011 Total	515	21	0	6.0			
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2012	246	9	0	2.0	CCTR Transf	From 2100-3098.000	FFIGUERO20131 031132045847
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IT Employee Transfer from SDGE to SCG as of 2013

2012	65	3	0	1.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031132854500
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IT Employee Transfer from SDGE to SCG as of 2013

2012	70	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134756100
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IT Employee Transfer from SDGE to SCG as of 2013

2012	62	3	0	1.0	CCTR Transf	From 2100-3107.000	FFIGUERO20131 031135635500
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IT Employee Transfer from SDGE to SCG as of 2013

2012	72	3	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140226983
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IT Employee Transfer from SDGE to SCG as of 2013

Note: Totals may include rounding differences.

Southern California Gas Company
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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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2012 Total	515	21	0	6.0			
2013 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
2016 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 - Base YR Rec

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		959	941	906	885	740	740	740	740	
Non-Labor		40	39	38	37	22	22	22	22	
NSE		0	0	0	0	0	0	0	0	
Total		999	979	944	922	762	762	762	762	
FTE		9.3	9.4	9.3	9.3	7.8	7.8	7.8	7.8	

Note: Totals may include rounding differences.

Southern California Gas Company
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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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	3	0	0	3	0.00	3	0	0	3	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	737	22	0	759	7.80	737	22	0	759	7.80
Total Incurred	740	22	0	762	7.80	740	22	0	762	7.80
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	3	0	0	3	0.00	3	0	0	3	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	737	22	0	759	7.80	737	22	0	759	7.80
Total Incurred	740	22	0	762	7.80	740	22	0	762	7.80
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 2013

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 2014

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 2015

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 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.

Note: Totals may include rounding differences.

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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	740	740	740	0	0	0	740	740	740
Non-Labor	Base YR Rec	22	22	22	0	0	0	22	22	22
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		762	762	762	0	0	0	762	762	762
FTE	Base YR Rec	7.8	7.8	7.8	0.0	0.0	0.0	7.8	7.8	7.8

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
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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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	635
Non-Labor	0	0	0	0	22
NSE	0	0	0	0	0
Total	0	0	0	0	657
FTE	0.0	0.0	0.0	0.0	6.7
Adjustments (Nominal \$) **					
Labor	756	756	756	756	0
Non-Labor	36	36	36	36	0
NSE	0	0	0	0	0
Total	792	792	792	792	0
FTE	8.0	8.0	8.0	8.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	756	756	756	756	635
Non-Labor	36	36	36	36	22
NSE	0	0	0	0	0
Total	792	792	792	792	657
FTE	8.0	8.0	8.0	8.0	6.7
Vacation & Sick (Nominal \$)					
Labor	117	120	111	110	106
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	117	120	111	110	106
FTE	1.3	1.4	1.3	1.3	1.1
Escalation to 2013\$					
Labor	86	64	39	19	0
Non-Labor	4	3	2	1	0
NSE	0	0	0	0	0
Total	90	67	40	20	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	959	941	906	885	740
Non-Labor	40	39	38	37	22
NSE	0	0	0	0	0
Total	999	979	944	922	762
FTE	9.3	9.4	9.3	9.3	7.8

* 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
2016 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	2009	2010	2011	2012	2013
Labor	756	756	756	756	0
Non-Labor	36	36	36	36	0
NSE	0	0	0	0	0
Total	792	792	792	792	0
FTE	8.0	8.0	8.0	8.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	205	9	0	2.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031125613230
IT Employee Transfer from SDGE to SCG as of 2013							
2009	69	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134859597
IT Employee Transfer from SDGE to SCG as of 2013							
2009	141	6	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140319237
IT Employee Transfer from SDGE to SCG as of 2013							
2009	341	18	0	4.0	CCTR Transf	From 2100-3544.000	FFIGUERO20131 031142444913
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	756	36	0	8.0			
2010	205	9	0	2.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031125705807
IT Employee Transfer from SDGE to SCG as of 2013							
2010	69	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031134939137
IT Employee Transfer from SDGE to SCG as of 2013							
2010	141	6	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140405447
IT Employee Transfer from SDGE to SCG as of 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2010	341	18	0	4.0	CCTR Transf	From 2100-3544.000	FFIGUERO20131 031142517240
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	756	36	0	8.0			
2011	205	9	0	2.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031125755013
IT Employee Transfer from SDGE to SCG as of 2013							
2011	69	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031135010527
IT Employee Transfer from SDGE to SCG as of 2013							
2011	141	6	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140443080
IT Employee Transfer from SDGE to SCG as of 2013							
2011	341	18	0	4.0	CCTR Transf	From 2100-3544.000	FFIGUERO20131 031142547520
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	756	36	0	8.0			
2012	205	9	0	2.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031130022963
IT Employee Transfer from SDGE to SCG as of 2013							
2012	69	3	0	1.0	CCTR Transf	From 2100-3105.000	FFIGUERO20131 031135039310
IT Employee Transfer from SDGE to SCG as of 2013							
2012	141	6	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140515767
IT Employee Transfer from SDGE to SCG as of 2013							
2012	341	18	0	4.0	CCTR Transf	From 2100-3544.000	FFIGUERO20131 031142611167
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	756	36	0	8.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2467.000 - CI STANDARDS

Southern California Gas Company
2016 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 - Base YR Rec

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		189	186	179	175	129	129	129	129	
Non-Labor		10	10	9	9	5	5	5	5	
NSE		0	0	0	0	0	0	0	0	
Total		199	195	188	184	134	134	134	134	
FTE		1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.01
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	129	5	0	134	1.09	129	5	0	134	1.09
Total Incurred	129	5	0	134	1.09	129	5	0	134	1.10
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.01	0	0	0	0	0.01
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	129	5	0	134	1.09	129	5	0	134	1.09
Total Incurred	129	5	0	134	1.10	129	5	0	134	1.10
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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 2013

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 2014

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 2015

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 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.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	129	129	129	0	0	0	129	129	129
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		134	134	134	0	0	0	134	134	134
FTE	Base YR Rec	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	1.1

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	111
Non-Labor	0	0	0	0	5
NSE	0	0	0	0	0
Total	0	0	0	0	116
FTE	0.0	0.0	0.0	0.0	0.9
Adjustments (Nominal \$) **					
Labor	149	149	149	149	0
Non-Labor	9	9	9	9	0
NSE	0	0	0	0	0
Total	158	158	158	158	0
FTE	1.0	1.0	1.0	1.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	149	149	149	149	111
Non-Labor	9	9	9	9	5
NSE	0	0	0	0	0
Total	158	158	158	158	116
FTE	1.0	1.0	1.0	1.0	0.9
Vacation & Sick (Nominal \$)					
Labor	23	24	22	22	18
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	23	24	22	22	18
FTE	0.2	0.2	0.2	0.2	0.2
Escalation to 2013\$					
Labor	17	13	8	4	0
Non-Labor	1	1	0	0	0
NSE	0	0	0	0	0
Total	18	13	8	4	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	189	186	179	175	129
Non-Labor	10	10	9	9	5
NSE	0	0	0	0	0
Total	199	195	188	184	134
FTE	1.2	1.2	1.2	1.2	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
2016 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	2009	2010	2011	2012	2013
Labor	149	149	149	149	0
Non-Labor	9	9	9	9	0
NSE	0	0	0	0	0
Total	158	158	158	158	0
FTE	1.0	1.0	1.0	1.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	46	3	0	0.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031133016723
IT Employee Transfer from SDGE to SCG as of 2013							
2009	103	6	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140611170
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	149	9	0	1.0			
2010	46	3	0	0.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031133103660
IT Employee Transfer from SDGE to SCG as of 2013							
2010	103	6	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140651547
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	149	9	0	1.0			
2011	46	3	0	0.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031133131180
IT Employee Transfer from SDGE to SCG as of 2013							
2011	103	6	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140722197
IT Employee Transfer from SDGE to SCG as of 2013							

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011 Total	149	9	0	1.0			
2012	46	3	0	0.0	CCTR Transf	From 2100-3100.000	FFIGUERO20131 031133207213
							IT Employee Transfer from SDGE to SCG as of 2013
2012	103	6	0	1.0	CCTR Transf	From 2100-3335.000	FFIGUERO20131 031140756083
							IT Employee Transfer from SDGE to SCG as of 2013
2012 Total	149	9	0	1.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2495.000 - IT PORTFOLIO MANAGEMENT

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2495.000 - IT PORTFOLIO MANAGEMENT

Activity Description:

The SCG IT Project Management Office (PMO) provides the management of IT capital projects, including vendor management work and development of enterprise-wide systems, applications, and 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 - Base YR Rec

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		140	137	132	129	40	40	86	132	
Non-Labor		3	3	3	3	0	0	260	270	
NSE		0	0	0	0	0	0	0	0	
Total		143	141	135	132	40	40	346	402	
FTE		1.2	1.2	1.2	1.2	0.3	0.3	0.8	1.3	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2495.000 - IT PORTFOLIO MANAGEMENT

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	40	0	0	40	0.31	40	0	0	40	0.31
Total Incurred	40	0	0	40	0.31	40	0	0	40	0.31
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	86	260	0	346	0.81	132	270	0	402	1.31
Total Incurred	86	260	0	346	0.81	132	270	0	402	1.31
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2495.000 - IT PORTFOLIO MANAGEMENT

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

Calculations are based upon LAN ID counts across utilities and the 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 2014

Calculations are based upon LAN ID counts across utilities and the 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 2015

Calculations are based upon LAN ID counts across utilities and the 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 2016

Calculations are based upon LAN ID counts across utilities and the 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2495.000 - IT PORTFOLIO MANAGEMENT

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	40	40	40	0	46	92	40	86	132
Non-Labor	Base YR Rec	0	0	0	0	260	270	0	260	270
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		40	40	40	0	306	362	40	346	402
FTE	Base YR Rec	0.3	0.3	0.3	0.0	0.5	1.0	0.3	0.8	1.3

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	

2015 46 10 0 56 0.5 1-Sided Adj

1.1 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 42% O&C ratio and \$100k average salary plus \$10k per employee (1 employee) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2015 0 250 0 250 0.0 1-Sided Adj

Management estimate for various consulting engagements (2-6 months) to analyze application roadmap options for potential capital investments in major applications. These engagements range from \$30 to \$250k each.

2015 Total	46	260	0	306	0.5	
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2016 46 10 0 56 0.5 1-Sided Adj

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2495.000 - IT PORTFOLIO MANAGEMENT

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
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1.1 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 42% O&C ratio and \$100k average salary plus \$10k per employee (1 employee) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2016	46	10	0	56	0.5	1-Sided Adj
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1.1 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 42% O&C ratio and \$100k average salary plus \$10k per employee (1 employee) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2016	0	250	0	250	0.0	1-Sided Adj
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Management estimate for various consulting engagements (2-6 months) to analyze application roadmap options for potential capital investments in major applications. These engagements range from \$30 to \$250k each.

2016 Total	92	270	0	362	1.0	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2495.000 - IT PORTFOLIO MANAGEMENT

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	34
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	34
FTE	0.0	0.0	0.0	0.0	0.3
Adjustments (Nominal \$) **					
Labor	110	110	110	110	0
Non-Labor	3	3	3	3	0
NSE	0	0	0	0	0
Total	113	113	113	113	0
FTE	1.0	1.0	1.0	1.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	110	110	110	110	34
Non-Labor	3	3	3	3	0
NSE	0	0	0	0	0
Total	113	113	113	113	34
FTE	1.0	1.0	1.0	1.0	0.3
Vacation & Sick (Nominal \$)					
Labor	17	18	16	16	6
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	17	18	16	16	6
FTE	0.2	0.2	0.2	0.2	0.0
Escalation to 2013\$					
Labor	13	9	6	3	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	13	10	6	3	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	140	137	132	129	40
Non-Labor	3	3	3	3	0
NSE	0	0	0	0	0
Total	143	141	135	132	40
FTE	1.2	1.2	1.2	1.2	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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: B. Infrastructure
 Category-Sub: 1. Infrastructure
 Cost Center: 2200-2495.000 - IT PORTFOLIO MANAGEMENT

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	110	110	110	110	0
Non-Labor	3	3	3	3	0
NSE	0	0	0	0	0
Total	113	113	113	113	0
FTE	1.0	1.0	1.0	1.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	110	3	0	1.0	CCTR Transf	From 2100-3498.000	FFIGUERO20131 031141004447
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	110	3	0	1.0			
2010	110	3	0	1.0	CCTR Transf	From 2100-3498.000	FFIGUERO20131 031141110753
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	110	3	0	1.0			
2011	110	3	0	1.0	CCTR Transf	From 2100-3498.000	FFIGUERO20131 031141238353
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	110	3	0	1.0			
2012	110	3	0	1.0	CCTR Transf	From 2100-3498.000	FFIGUERO20131 031141331593
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	110	3	0	1.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: B. Infrastructure
Category-Sub: 1. Infrastructure
Cost Center: 2200-2495.000 - IT PORTFOLIO MANAGEMENT

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Southern California Gas Company
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Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: C. Information Security
Cost Center: 2200-2469.000

Summary for Category: C. Information Security

	In 2013\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Labor	621	621	691	761
Non-Labor	7	7	17	27
NSE	0	0	0	0
Total	<u>628</u>	<u>628</u>	<u>708</u>	<u>788</u>
FTE	5.8	5.8	6.5	7.2

Cost Centers belonging to this Category:

2200-2469.000 IT INFORMATION SECURITY SCG

Labor	621	621	691	761
Non-Labor	7	7	17	27
NSE	0	0	0	0
Total	<u>628</u>	<u>628</u>	<u>708</u>	<u>788</u>
FTE	5.8	5.8	6.5	7.2

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2469.000 - IT INFORMATION SECURITY SCG

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. Information Security
 Category-Sub: 1. Information Security
 Cost Center: 2200-2469.000 - IT INFORMATION SECURITY SCG

Activity Description:

This cost center provides Information Protection engineering support for enterprise server clients, remote access clients and SAP clients. Consulting for server, network, annual security assessments, and software component development relating to SAP and enterprise.

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

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		405	397	382	374	621	621	691	761	
Non-Labor		16	16	16	15	7	7	17	27	
NSE		0	0	0	0	0	0	0	0	
Total		421	413	398	389	628	628	708	788	
FTE		4.7	4.7	4.7	4.6	5.8	5.8	6.5	7.2	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. Information Security
 Category-Sub: 1. Information Security
 Cost Center: 2200-2469.000 - IT INFORMATION SECURITY SCG

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	1	0	0	1	0.01	1	0	0	1	0.01
Directly Allocated	96	1	0	97	0.85	96	1	0	97	0.85
Subj. To % Alloc.	524	5	0	529	4.98	524	5	0	529	4.98
Total Incurred	621	6	0	627	5.84	621	6	0	627	5.84
% Allocation										
Retained	54.70%	54.70%				58.32%	58.32%			
SEU	41.64%	41.64%				38.08%	38.08%			
CORP	3.66%	3.66%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	1	0	0	1	0.01	1	0	0	1	0.01
Directly Allocated	96	1	0	97	0.85	96	1	0	97	0.85
Subj. To % Alloc.	594	15	0	609	5.68	664	25	0	689	6.38
Total Incurred	691	16	0	707	6.54	761	26	0	787	7.24
% Allocation										
Retained	58.32%	58.32%				58.32%	58.32%			
SEU	38.08%	38.08%				38.08%	38.08%			
CORP	3.60%	3.60%				3.60%	3.60%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: C. Information Security
Category-Sub: 1. Information Security
Cost Center: 2200-2469.000 - IT INFORMATION SECURITY SCG

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

Calculations are based upon LAN ID counts across utilities and the 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 2014

Calculations are based upon LAN ID counts across utilities and the 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 2015

Calculations are based upon LAN ID counts across utilities and the 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 2016

Calculations are based upon LAN ID counts across utilities and the 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. Information Security
 Category-Sub: 1. Information Security
 Cost Center: 2200-2469.000 - IT INFORMATION SECURITY SCG

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	621	621	621	0	70	140	621	691	761
Non-Labor	Base YR Rec	7	7	7	0	10	20	7	17	27
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		628	628	628	0	80	160	628	708	788
FTE	Base YR Rec	5.8	5.8	5.8	0.0	0.7	1.4	5.8	6.5	7.2

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	

2015 70 10 0 80 0.7 1-Sided Adj

1.2 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 60% O&C ratio and \$100k average salary plus \$10k per employee (1 employee) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2015 Total	70	10	0	80	0.7	
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2016 70 10 0 80 0.7 1-Sided Adj

1.2 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 60% O&C ratio and \$100k average salary plus \$10k per employee (1 employee) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2016 70 10 0 80 0.7 1-Sided Adj

Note: Totals may include rounding differences.

Southern California Gas Company
 2016 GRC - APP
 Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. Information Security
 Category-Sub: 1. Information Security
 Cost Center: 2200-2469.000 - IT INFORMATION SECURITY SCG

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
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1.2 incremental FTEs to support new IT initiatives across the company in 2015 and in 2016. Assumes 60% O&C ratio and \$100k average salary plus \$10k per employee (1 employee) in associated NL costs.

Incremental Employee requirements were estimated to be 15 headcount across the IT Division in 2015 and 2016. These 15 added employees are needed to support business growth and client IT support needs. The 15 headcount were prorated based upon 2013 spend by individual IT department and average O&C labor ratio for the base year.

2016 Total	140	20	0	160	1.4	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. Information Security
 Category-Sub: 1. Information Security
 Cost Center: 2200-2469.000 - IT INFORMATION SECURITY SCG

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	533
Non-Labor	0	0	0	0	7
NSE	0	0	0	0	0
Total	0	0	0	0	539
FTE	0.0	0.0	0.0	0.0	5.0
Adjustments (Nominal \$) **					
Labor	319	319	319	319	0
Non-Labor	15	15	15	15	0
NSE	0	0	0	0	0
Total	334	334	334	334	0
FTE	4.0	4.0	4.0	4.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	319	319	319	319	533
Non-Labor	15	15	15	15	7
NSE	0	0	0	0	0
Total	334	334	334	334	539
FTE	4.0	4.0	4.0	4.0	5.0
Vacation & Sick (Nominal \$)					
Labor	49	51	47	46	89
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	49	51	47	46	89
FTE	0.7	0.7	0.7	0.6	0.8
Escalation to 2013\$					
Labor	36	27	16	8	0
Non-Labor	1	1	1	0	0
NSE	0	0	0	0	0
Total	38	28	17	8	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	405	397	382	374	621
Non-Labor	16	16	16	15	7
NSE	0	0	0	0	0
Total	421	413	398	389	628
FTE	4.7	4.7	4.7	4.6	5.8

* 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. Information Security
 Category-Sub: 1. Information Security
 Cost Center: 2200-2469.000 - IT INFORMATION SECURITY SCG

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	319	319	319	319	0
Non-Labor	15	15	15	15	0
NSE	0	0	0	0	0
Total	334	334	334	334	0
FTE	4.0	4.0	4.0	4.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	51	3	0	1.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031130150060
IT Employee Transfer from SDGE to SCG as of 2013							
2009	78	3	0	1.0	CCTR Transf	From 2100-3101.000	FFIGUERO20131 031133323167
IT Employee Transfer from SDGE to SCG as of 2013							
2009	190	9	0	2.0	CCTR Transf	From 2100-3775.000	FFIGUERO20131 031145930553
IT Employee Transfer from SDGE to SCG as of 2013							
2009 Total	319	15	0	4.0			
2010	51	3	0	1.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031130237263
IT Employee Transfer from SDGE to SCG as of 2013							
2010	78	3	0	1.0	CCTR Transf	From 2100-3101.000	FFIGUERO20131 031133430403
IT Employee Transfer from SDGE to SCG as of 2013							
2010	190	9	0	2.0	CCTR Transf	From 2100-3775.000	FFIGUERO20131 031150011357
IT Employee Transfer from SDGE to SCG as of 2013							
2010 Total	319	15	0	4.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: C. Information Security
 Category-Sub: 1. Information Security
 Cost Center: 2200-2469.000 - IT INFORMATION SECURITY SCG

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	51	3	0	1.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031130322230
IT Employee Transfer from SDGE to SCG as of 2013							
2011	78	3	0	1.0	CCTR Transf	From 2100-3101.000	FFIGUERO20131 031133514970
IT Employee Transfer from SDGE to SCG as of 2013							
2011	190	9	0	2.0	CCTR Transf	From 2100-3775.000	FFIGUERO20131 031150047723
IT Employee Transfer from SDGE to SCG as of 2013							
2011 Total	319	15	0	4.0			
2012	51	3	0	1.0	CCTR Transf	From 2100-3096.000	FFIGUERO20131 031130358000
IT Employee Transfer from SDGE to SCG as of 2013							
2012	78	3	0	1.0	CCTR Transf	From 2100-3101.000	FFIGUERO20131 031133548650
IT Employee Transfer from SDGE to SCG as of 2013							
2012	190	9	0	2.0	CCTR Transf	From 2100-3775.000	FFIGUERO20131 031150119673
IT Employee Transfer from SDGE to SCG as of 2013							
2012 Total	319	15	0	4.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: D. IT Support
Cost Center: VARIOUS

Summary for Category: D. IT Support

	In 2013\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Labor	4	4	141	202
Non-Labor	55	55	75	85
NSE	0	0	0	0
Total	<u>59</u>	<u>59</u>	<u>216</u>	<u>287</u>
FTE	0.1	0.1	1.7	2.3

Cost Centers belonging to this Category:

2200-2166.000 VP INFORMATION TECHNOLOGY

Labor	0	0	0	0
Non-Labor	19	19	19	19
NSE	0	0	0	0
Total	<u>19</u>	<u>19</u>	<u>19</u>	<u>19</u>
FTE	0.0	0.0	0.0	0.0

2200-2313.000 SVP & CITO

Labor	0	0	75	75
Non-Labor	23	23	33	33
NSE	0	0	0	0
Total	<u>23</u>	<u>23</u>	<u>108</u>	<u>108</u>
FTE	0.0	0.0	1.0	1.0

2200-2319.000 IT ENTERPRISE TRAINING AND COMM

Labor	0	0	0	0
Non-Labor	13	13	13	13
NSE	0	0	0	0
Total	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>
FTE	0.0	0.0	0.0	0.0

2200-2496.000 SCG IT ASSOCIATE PROGRAM

Labor	4	4	66	127
Non-Labor	0	0	10	20
NSE	0	0	0	0
Total	<u>4</u>	<u>4</u>	<u>76</u>	<u>147</u>
FTE	0.1	0.1	0.7	1.3

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2166.000 - VP INFORMATION TECHNOLOGY

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2166.000 - VP INFORMATION TECHNOLOGY

Activity Description:

This cost center supports the VP of Information technology and includes direct non-labor charges to SCG that are shared between utilities.

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

Not applicable

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		193	253	3	0	0	0	0	0	
Non-Labor		7	317	13	200	19	19	19	19	
NSE		0	0	0	0	0	0	0	0	
Total		201	570	15	200	19	19	19	19	
FTE		0.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2166.000 - VP INFORMATION TECHNOLOGY

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	0	19	0	19	0.00	0	19	0	19	0.00
Total Incurred	0	19	0	19	0.00	0	19	0	19	0.00
% Allocation										
Retained	49.92%	49.92%				49.92%	49.92%			
SEU	46.49%	46.49%				46.49%	46.49%			
CORP	3.32%	3.32%				3.32%	3.32%			
Unreg	0.27%	0.27%				0.27%	0.27%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	0	19	0	19	0.00	0	19	0	19	0.00
Total Incurred	0	19	0	19	0.00	0	19	0	19	0.00
% Allocation										
Retained	49.92%	49.92%				49.92%	49.92%			
SEU	46.49%	46.49%				46.49%	46.49%			
CORP	3.32%	3.32%				3.32%	3.32%			
Unreg	0.27%	0.27%				0.27%	0.27%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

Weighted average of all IT cost centers. VP of IT supports all SCG cost centers.

Cost Center Allocation Percentage for 2014

Weighted average of all IT cost centers. VP of IT supports all SCG cost centers.

Cost Center Allocation Percentage for 2015

Weighted average of all IT cost centers. VP of IT supports all SCG cost centers.

Cost Center Allocation Percentage for 2016

Weighted average of all IT cost centers. VP of IT supports all SCG cost centers.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2166.000 - VP INFORMATION TECHNOLOGY

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
Non-Labor	Base YR Rec	19	19	19	0	0	0	19	19	19
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		19	19	19	0	0	0	19	19	19
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: D. IT Support
Category-Sub: 1. IT Support
Cost Center: 2200-2166.000 - VP INFORMATION TECHNOLOGY

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	149	201	2	0	0
Non-Labor	7	295	12	0	19
NSE	0	0	0	0	0
Total	156	496	14	0	19
FTE	0.7	0.9	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	196	0
NSE	0	0	0	0	0
Total	0	0	0	196	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	149	201	2	0	0
Non-Labor	7	295	12	196	19
NSE	0	0	0	0	0
Total	156	496	14	196	19
FTE	0.7	0.9	0.0	0.0	0.0
Vacation & Sick (Nominal \$)					
Labor	27	35	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	27	35	0	0	0
FTE	0.1	0.2	0.0	0.0	0.0
Escalation to 2013\$					
Labor	17	17	0	0	0
Non-Labor	1	22	1	4	0
NSE	0	0	0	0	0
Total	18	39	1	4	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	193	253	3	0	0
Non-Labor	7	317	13	200	19
NSE	0	0	0	0	0
Total	201	570	15	200	19
FTE	0.8	1.1	0.0	0.0	0.0

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2166.000 - VP INFORMATION TECHNOLOGY

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	0	0	0	0	0
Non-Labor	0	0	0	196	0
NSE	0	0	0	0	0
Total	0	0	0	196	0
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	19	31	0	0.2	1-Sided Adj	N/A	LBROUGH201311 22095027467
Adjust to 2013 Outlook (as of Nov, 2013)							
2009	-19	-31	0	-0.2	1-Sided Adj	N/A	LBROUGH201311 22095146700
Remove 2009 adjustment and place in 2013							
2009 Total	0	0	0	0.0			
2010 Total	0	0	0	0.0			
2011 Total	0	0	0	0.0			
2012	0	196	0	0.0	1-Sided Adj	N/A	LBROUGH201311 06103929970
Transfer in of consulting charges to support the IT Executive Dashboard Project (Sparta Consulting).							
2012 Total	0	196	0	0.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

**Beginning of Workpaper
2200-2313.000 - SVP & CITO**

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2313.000 - SVP & CITO

Activity Description:

The SVP and CITO cost center contains direct SCG costs which support the IT officer, his support staff, and related expenses necessary to manage the entire IT organization.

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

Not applicable

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		0	3	0	0	0	0	75	75	
Non-Labor		0	0	3	0	23	23	33	33	
NSE		0	0	0	0	0	0	0	0	
Total		0	3	3	0	23	23	108	108	
FTE		0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2313.000 - SVP & CITO

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	23	0	23	0.00	0	23	0	23	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	0	0	0	0	0.00	0	0	0	0	0.00
Total Incurred	0	23	0	23	0.00	0	23	0	23	0.00
% Allocation										
Retained	30.95%	30.95%				49.09%	49.09%			
SEU	66.56%	66.56%				47.72%	47.72%			
CORP	2.27%	2.27%				2.87%	2.87%			
Unreg	0.22%	0.22%				0.32%	0.32%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	23	0	23	0.00	0	23	0	23	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	75	10	0	85	1.00	75	10	0	85	1.00
Total Incurred	75	33	0	108	1.00	75	33	0	108	1.00
% Allocation										
Retained	49.09%	49.09%				49.09%	49.09%			
SEU	47.72%	47.72%				47.72%	47.72%			
CORP	2.87%	2.87%				2.87%	2.87%			
Unreg	0.32%	0.32%				0.32%	0.32%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: D. IT Support
Category-Sub: 1. IT Support
Cost Center: 2200-2313.000 - SVP & CITO

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

The SVP and CITO cost center contains direct SCG costs which support the IT officer, his support staff, and related expenses necessary to manage the entire IT organization. A weighted average of all cost centers against 2013 actual spend was used to calculate the percentages for this cost center.

Cost Center Allocation Percentage for 2014

The SVP and CITO cost center contains direct SCG costs which support the IT officer, his support staff, and related expenses necessary to manage the entire IT organization. A weighted average of all cost centers against 2013 actual spend was used to calculate the percentages for this cost center.

Cost Center Allocation Percentage for 2015

The SVP and CITO cost center contains direct SCG costs which support the IT officer, his support staff, and related expenses necessary to manage the entire IT organization. A weighted average of all cost centers against 2013 actual spend was used to calculate the percentages for this cost center.

Cost Center Allocation Percentage for 2016

The SVP and CITO cost center contains direct SCG costs which support the IT officer, his support staff, and related expenses necessary to manage the entire IT organization. A weighted average of all cost centers against 2013 actual spend was used to calculate the percentages for this cost center.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2313.000 - SVP & CITO

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	0	0	0	0	75	75	0	75	75
Non-Labor	Base YR Rec	23	23	23	0	10	10	23	33	33
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		23	23	23	0	85	85	23	108	108
FTE	Base YR Rec	0.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015	75	10	0	85	1.0	1-Sided Adj
1 Business Planning Analyst @ 75k + 10k in associated NL. IT Business Planning support at SoCalGas in 2013 and 2014 was primarily for capital. Requirements for 2015-2016 will shift to O&M.						
2015 Total	75	10	0	85	1.0	
2016	75	10	0	85	1.0	1-Sided Adj
1 Business Planning Analyst @ 75k + 10k in associated NL. IT Business Planning support at SoCalGas in 2013 and 2014 was primarily for capital. Requirements for 2015-2016 will shift to O&M.						
2016 Total	75	10	0	85	1.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: D. IT Support
Category-Sub: 1. IT Support
Cost Center: 2200-2313.000 - SVP & CITO

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	3	0	0	0
Non-Labor	0	0	3	0	23
NSE	0	0	0	0	0
Total	0	3	3	0	23
FTE	0.0	0.0	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	3	0	0	0
Non-Labor	0	0	3	0	23
NSE	0	0	0	0	0
Total	0	3	3	0	23
FTE	0.0	0.0	0.0	0.0	0.0
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2013\$					
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 2013\$)					
Labor	0	3	0	0	0
Non-Labor	0	0	3	0	23
NSE	0	0	0	0	0
Total	0	3	3	0	23
FTE	0.0	0.0	0.0	0.0	0.0

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2313.000 - SVP & CITO

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
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

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009 Total	0	0	0	0.0			
2010 Total	0	0	0	0.0			
2011 Total	0	0	0	0.0			
2012 Total	0	0	0	0.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2319.000 - IT ENTERPRISE TRAINING AND COMM

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2319.000 - IT ENTERPRISE TRAINING AND COMM

Activity Description:

This cost center supports the IT enterprise training and communications programs.

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

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		7	209	97	0	0	0	0	0	
Non-Labor		22	113	78	209	13	13	13	13	
NSE		0	0	0	0	0	0	0	0	
Total		28	322	176	209	13	13	13	13	
FTE		0.1	2.4	1.5	0.0	0.0	0.0	0.0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2319.000 - IT ENTERPRISE TRAINING AND COMM

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	0	13	0	13	0.00	0	13	0	13	0.00
Total Incurred	0	13	0	13	0.00	0	13	0	13	0.00
% Allocation										
Retained	54.70%	54.70%				54.70%	54.70%			
SEU	41.64%	41.64%				41.64%	41.64%			
CORP	3.66%	3.66%				3.66%	3.66%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	0	13	0	13	0.00	0	13	0	13	0.00
Total Incurred	0	13	0	13	0.00	0	13	0	13	0.00
% Allocation										
Retained	54.70%	54.70%				54.70%	54.70%			
SEU	41.64%	41.64%				41.64%	41.64%			
CORP	3.66%	3.66%				3.66%	3.66%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: D. IT Support
Category-Sub: 1. IT Support
Cost Center: 2200-2319.000 - IT ENTERPRISE TRAINING AND COMM

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2013

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 2014

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 2015

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 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.

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2319.000 - IT ENTERPRISE TRAINING AND COMM

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
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		13	13	13	0	0	0	13	13	13
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	
2015 Total	0	0	0	0	0.0	
2016 Total	0	0	0	0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: D. IT Support
Category-Sub: 1. IT Support
Cost Center: 2200-2319.000 - IT ENTERPRISE TRAINING AND COMM

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	5	166	80	0	0
Non-Labor	20	105	75	205	13
NSE	0	0	0	0	0
Total	25	271	155	205	13
FTE	0.1	2.1	1.3	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	5	166	80	0	0
Non-Labor	20	105	75	205	13
NSE	0	0	0	0	0
Total	25	271	155	205	13
FTE	0.1	2.1	1.3	0.0	0.0
Vacation & Sick (Nominal \$)					
Labor	1	29	13	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	1	29	13	0	0
FTE	0.0	0.4	0.2	0.0	0.0
Escalation to 2013\$					
Labor	1	14	4	0	0
Non-Labor	2	8	3	5	0
NSE	0	0	0	0	0
Total	3	22	7	5	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	7	209	97	0	0
Non-Labor	22	113	78	209	13
NSE	0	0	0	0	0
Total	28	322	176	209	13
FTE	0.1	2.5	1.5	0.0	0.0

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. IT Support
 Category-Sub: 1. IT Support
 Cost Center: 2200-2319.000 - IT ENTERPRISE TRAINING AND COMM

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
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

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009 Total	0	0	0	0.0			
2010 Total	0	0	0	0.0			
2011 Total	0	0	0	0.0			
2012 Total	0	0	0	0.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-2496.000 - SCG IT ASSOCIATE PROGRAM

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. 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 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

NA

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		0	0	0	0	4	4	66	127	
Non-Labor		0	0	0	0	0	0	10	20	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	0	4	4	76	147	
FTE		0.0	0.0	0.0	0.0	0.1	0.1	0.7	1.3	

Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Cost Center Allocations (Incurred Costs):

	2013 Adjusted-Recorded					2014 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	4	0	0	4	0.07	4	0	0	4	0.07
Total Incurred	4	0	0	4	0.07	4	0	0	4	0.07
% Allocation										
Retained	60.50%	60.50%				60.50%	60.50%			
SEU	39.50%	39.50%				39.50%	39.50%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2015 Adjusted-Forecast					2016 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.00	0	0	0	0	0.00
Directly Allocated	0	0	0	0	0.00	0	0	0	0	0.00
Subj. To % Alloc.	66	10	0	76	0.67	127	20	0	147	1.27
Total Incurred	66	10	0	76	0.67	127	20	0	147	1.27
% Allocation										
Retained	60.50%	60.50%				60.50%	60.50%			
SEU	39.50%	39.50%				39.50%	39.50%			
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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
Witness: Christopher R. Olmsted
Category: D. 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 2013

Costs will be allocated based on employees with LAN access @ 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 2014

Costs will be allocated based on employees with LAN access @ 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 2015

Costs will be allocated based on employees with LAN access @ 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 2016

Costs will be allocated based on employees with LAN access @ 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
2016 GRC - APP
Shared Services Workpapers

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

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Base YR Rec	4	4	4	0	62	123	4	66	127
Non-Labor	Base YR Rec	0	0	0	0	10	20	0	10	20
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Total		4	4	4	0	72	143	4	76	147
FTE	Base YR Rec	0.1	0.1	0.1	0.0	0.6	1.2	0.1	0.7	1.3

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014 Total	0	0	0	0	0.0	

2015 62 10 0 72 0.6 1-Sided Adj

2 new associates (61.5k per person) plus \$10k in associated NL, one in 2015, and another in 2016.

The associate program provides recent graduates the opportunity to gain experience in IT while rotating through different disciplines (applications, infrastructure, information security, business). The program has been in place at SDG&E for several years. IT is planning to expand the program to SoCalGas, beginning the ramp up with one new associate per year in 2015 and 2016.

2015 Total	62	10	0	72	0.6	
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2016 123 20 0 143 1.2 1-Sided Adj

2 new associates (61.5k per person) plus \$10k in associated NL, one in 2015, and another in 2016.

The associate program provides recent graduates the opportunity to gain experience in IT while rotating through different disciplines (applications, infrastructure, information security, business). The program has been in place at SDG&E for several years. IT is planning to expand the program to SoCalGas, beginning the ramp up with one new associate per year in 2015 and 2016.

2016 Total	123	20	0	143	1.2	
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Note: Totals may include rounding differences.

Southern California Gas Company
2016 GRC - APP
Shared Services Workpapers

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

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	4
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	4
FTE	0.0	0.0	0.0	0.0	0.1
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	4
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	4
FTE	0.0	0.0	0.0	0.0	0.1
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	1
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	1
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2013\$					
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 2013\$)					
Labor	0	0	0	0	4
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	4
FTE	0.0	0.0	0.0	0.0	0.1

* 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
2016 GRC - APP
Shared Services Workpapers

Area: INFORMATION TECHNOLOGY
 Witness: Christopher R. Olmsted
 Category: D. 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	2009	2010	2011	2012	2013
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

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009 Total	0	0	0	0.0			
2010 Total	0	0	0	0.0			
2011 Total	0	0	0	0.0			
2012 Total	0	0	0	0.0			
2013 Total	0	0	0	0.0			

Note: Totals may include rounding differences.

Southern California Gas Company
2016 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
2200-0619	000	TELECOM FIELD VOICE - SCG
2200-2089	000	NETWORK/TELECOM SERVICES - SCG
2200-2155	000	CCC TECHNOLOGY MANAGER
2200-2181	000	FIELD FORCE - SUPERVISOR ENABLEMENT
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
2200-2257	000	FIELD MOBILE- MAINTENANCE AND INSPECTION
2200-2258	000	FIELD PLANNING AND SCHEDULE
2200-2273	000	PMO EDUCATION TRAINING & COMMUNICATION
2200-2274	000	OPEX ASSET MANAGEMENT AIS
2200-2275	000	CUSTOMER CARE ICE SELF SERVICE
2200-2276	000	CUSTOMER CARE OPERATIONAL INSIGHT ANALYT
2200-2277	000	CUSTOMER CARE SINGLE VIEW OF THE CUSTOME
2200-2278	000	CUSTOMER CARE REP OF THE FUTURE
2200-2316	000	FIELD FORCE DEPLOYMENT
2200-2317	000	FIELD FORCE TESTING
2200-2318	000	FIELD FORCE ETC
2200-2379	000	BUS COMM SVCS-SCG CUSTCONTCTR
2200-2384	000	SCG CUSTOMER CARE PROJECT OFFICE
2200-2387	000	CUSTOMER SELF SERVICES
2200-2388	000	SCG INFRASTRUCTURE MIDDLEWARE
2200-2395	000	CUSTOMER CONTACT SVC DELIVERY - SCG
2200-2400	000	SCG NETWORK INTEGRATION
2200-2420	000	SCG PERSONAL OWNED DEVICE ALLOWANCE
2200-2448	000	SCG APPS SW DEV -SCG
2200-2449	000	SCG APPS SW CUST INF
2200-2450	000	SCG APPS SW FIELD SR
2200-2454	000	IT&CLT SVCS PROG OFF
2200-2465	000	CI ENGINEERING SCG
2200-2483	000	SCG SHARED APP PGRM