Application of SOUTHERN CALIFORNIA GAS	,
COMPANY for authority to update its gas revenue	,
requirement and base rates	,
effective January 1, 2012 (U 904-G)	,

Application No. 10-12-\_\_\_ Exhibit No.: (SCG-13-WP)

# WORKPAPERS TO PREPARED DIRECT TESTIMONY OF RICHARD D. PHILLIPS ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

# BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

DECEMBER 2010



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# 2012 General Rate Case - APP INDEX OF WORKPAPERS

# Exhibit SCG-13 - OPEX 20/20

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Summary of Non-Shared Services Workpapers	2
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# Overall Summary For Exhibit No. SCG-13

Area: OPEX 20/20

Witness: Phillips, Richard D

Description
Non-Shared Services
Shared Services
Total

In 2009 \$ (000)								
Adjusted-Recorded		Adjusted-Forecast						
2009	2010	2011	2012					
5,731	4,790	-2,693	-4,934					
0	0	0	0					
5,731	4,790	-2,693	-4,934					

Area: OPEX 20/20
Witness: Phillips, Richard D

#### **Summary of Non-Shared Services Workpapers:**

Description

A. OpEx 20/20 SCG

Total

In 2009 \$ (000)							
Adjusted- Recorded	Adjusted-Forecast						
2009	2010	2011	2012				
5,731	4,790	-2,693	-4,934				
5,731	4,790	-2,693	-4,934				

Area: OPEX 20/20
Witness: Phillips, Richard D
Category: A. OpEx 20/20 SCG
Workpaper: 20P002.000

Summary for Category: A. OpEx 20/20 SCG

Total

FTE

	In 2009\$ (000)							
	Adjusted-Recorded	Adjusted-Forecast						
	2009	2010	2011	2012				
Labor	990	1,175	-4,610	-8,610				
Non-Labor	4,741	1,164	1,567	3,396				
NSE	0	2,451	350	280				
Total	5,731	4,790	-2,693	-4,934				
FTE	11.8	12.0	-61.0	-116.0				

4,790

12.0

-2,693

-61.0

-4,934

-116.0

#### Workpapers belonging to this Category: 20P002.000 OPEX 20/20 SCG Labor 990 1,175 -8,610 -4,610 4,741 Non-Labor 1,164 3,396 1,567 NSE 0 2,451 280 350

5,731

11.8

Beginning of Workpaper 20P002.000 - OPEX 20/20 SCG

Area: OPEX 20/20
Witness: Phillips, Richard D
Category: A. OpEx 20/20 SCG
Category-Sub 1. OpEx 20/20 SCG

Workpaper: 2OP002.000 - OPEX 20/20 SCG

#### **Activity Description:**

OpEx 20/20 program costs have been forecast over the rate case forecast period (2010-2012) at the project level. For the purposes of this GRC filing the O&M cost estimates presented here are in 2009 direct dollars. Cost estimates were based on costs of similar projects completed at other companies of comparable size. Estimates were adjusted for numbers and types of users and systems impacted.

O&M savings are achieved through successful implementation of each of the projects and integration between them and existing legacy systems. A diverse group of Subject Matter Experts representing various functional, departmental and geographic areas of the affected operating groups were assembled for each project to evaluate the reasonableness of the proposed benefits.

For labor savings, this included determining the specific productivity enablers and the impact on employees. The resulting benefits vary depending on the type and degree of automation already implemented in a particular work group, the degree of operational standardization already achieved and the level of acceptance by the impacted work groups.

Non-labor savings are primarily associated with the deferral of capital maintenance and/or replacement of system assets, more efficient and effective contracting of contracting of capital maintenance and replacement projects, and more effective prioritization of capital projects.

OpEx dollars reflect difference between estimated costs and hard savings.

#### **Forecast Methodology:**

#### Labor - Zero-Based

Internal labor costs are for education, training and communication support.

#### Non-Labor - Zero-Based

Nonlabor costs are for consulting support, reimbursable, rent and misc. expenses.

#### NSE - Zero-Based

NSE costs for contract commitment with 3rd party vendors.

#### **Summary of Results:**

Years
Labor
Non-Labor
NSE
Total
FTF

	In 2009\$ (000)									
	Adjus	sted-Record	Adj	justed-Fore	cast					
2005	2006	2007	2008	2009	2010	2011	2012			
2	9	1,114	1,340	990	1,175	-4,610	-8,610			
5	51	2,461	5,022	4,741	1,164	1,567	3,396			
0	0	0	0	0	2,451	350	280			
7	60	3,575	6,362	5,731	4,790	-2,693	-4,934			
0.0	0.0	9.6	13.8	11.8	12.0	-61.0	-116.0			

Area: OPEX 20/20
Witness: Phillips, Richard D
Category: A. OpEx 20/20 SCG
Category-Sub: 1. OpEx 20/20 SCG

Workpaper: 2OP002.000 - OPEX 20/20 SCG

#### **Forecast Summary:**

In 2009 \$(000)										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
		<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2010</u> <u>2011</u> <u>2012</u>			<u>2010</u>	<u>2011</u>	<u>2012</u>
Labor	Zero-Based	0	0	0	1,175	-4,610	-8,610	1,175	-4,610	-8,610
Non-Labor	Zero-Based	0	0	0	1,164	1,567	3,396	1,164	1,567	3,396
NSE	Zero-Based	0	0	0	2,451	350	280	2,451	350	280
Total	•	0	0	0	4,790	-2,693	-4,934	4,790	-2,693	-4,934
FTE	Zero-Based	0.0	0.0	0.0	12.0	-61.0	-116.0	12.0	-61.0	-116.0

# Forecast Adjustment Details:

cast Adjustment Details:											
Yea	r/Expl.	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type				
20	10	0	0	2,451	2,451	0.0	1-Sided Adj				
	OpEx nonlabor costs for contracted consulting support for education, training and communication efforts.										
20	10	2,318	0	0	2,318	0.0	1-Sided Adj				
	OpEx labor	for education, tr	aining and c	ommunicatio	n support						
20	10	-1,143	0	0	-1,143	0.0	1-Sided Adj				
	OpEx labor	hard savings									
20	10	0	1,192	0	1,192	0.0	1-Sided Adj				
	•	ulting support for e and employee		•	communicatio	n. Also inc	lude misc				
20	10	0	-28	0	-28	0.0	1-Sided Adj				
	OpEx nonla	bor hard saving	S.								
20	10	0	0	0	0	26.0	1-Sided Adj				
OpEx labor FTE for education, training and communication support.											
20	10	0	0	0	0	-14.0	1-Sided Adj				
OpEx labor FTE hard savings.											
20	10 Total	1,175	1,164	2,451	4,790	12.0					

Area: OPEX 20/20
Witness: Phillips, Richard D
Category: A. OpEx 20/20 SCG
Category-Sub: 1. OpEx 20/20 SCG

OpEx labor hard savings.

Workpaper: 2OP002.000 - OPEX 20/20 SCG

paper:	2OP002.000 -	OPEX 20/20	) SCG								
Year/Expl.	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	FTE A	dj Type					
2011	0	0	350	350	0.0	1-Sided Adj					
•	OpEx nonlabor costs for contracted consulting support for education, training and communication efforts.										
2011	816	0	0	816	0.0	1-Sided Adj					
OpEx labo	r for education, t	raining and c	ommunicati	on support.							
2011	-5,426	0	0	-5,426	0.0	1-Sided Adj					
OpEx labor	r for hard saving	s.									
2011	0	1,614	0	1,614	0.0	1-Sided Adj					
	sulting support fo reimbursable and			communication	on. Also inc	lude misc					
2011	0	-47	0	-47	0.0	1-Sided Adj					
OpEx nonla	abor hard saving	S.									
2011	0	0	0	0	-68.0	1-Sided Adj					
OpEx labo	r FTE hard savin	gs.									
2011	0	0	0	0	7.0	1-Sided Adj					
OpEx labo	r FTE for educati	ion, training a	and commur	nication.							
2011 Total	-4,610	1,567	350	-2,693	-61.0						
2012	0	0	280	280	0.0	1-Sided Adj					
•	OpEx nonlabor costs for contracted consulting support for education, training and communication efforts.										
2012	2,230	0	0	2,230	0.0	1-Sided Adj					
OpEx labo	r for education, t	raining and c	ommunicati	on support.							
2012	-10,840	0	0	-10,840	0.0	1-Sided Adj					

Area: OPEX 20/20
Witness: Phillips, Richard D
Category: A. OpEx 20/20 SCG
Category-Sub: 1. OpEx 20/20 SCG

Workpaper: 2OP002.000 - OPEX 20/20 SCG

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	FTE A	<u>dj Type</u>		
2012	0	3,891	0	3,891	0.0	1-Sided Adj		
•	llting support for e and employee		•	communicatio	n. Also incl	ude misc		
2012	0	-495	0	-495	0.0	1-Sided Adj		
OpEx nonlal	bor hard savings	3.						
2012	0	0	0	0	-136.0	1-Sided Adj		
OpEx labor FTE for hard savings.								
2012	0	0	0	0	20.0	1-Sided Adj		
OpEx labor FTE for education, training and communication support.								

Area: OPEX 20/20
Witness: Phillips, Richard D
Category: A. OpEx 20/20 SCG
Category-Sub: 1. OpEx 20/20 SCG

Workpaper: 2OP002.000 - OPEX 20/20 SCG

#### **Determination of Adjusted-Recorded:**

cterrimation of Aujuste	2005 (\$000)	2006 (\$000)	2007 (\$000)	2008 (\$000)	2009 (\$000)
Recorded (Nominal \$)*					
Labor	1	7	895	1,096	1,518
Non-Labor	4	47	2,348	5,034	4,795
NSE	0	0	0	0	0
Total	6	54	3,243	6,130	6,314
FTE	0.0	0.0	8.1	11.5	17.5
Adjustments (Nominal \$	) **				
Labor	0	0	0	0	-680
Non-Labor	0	0	0	0	-54
NSE	0	0	0	0	0
Total	0	0	0	0	-734
FTE	0.0	0.0	0.0	0.0	-7.6
Recorded-Adjusted (Nor	minal \$)				
Labor	1	7	895	1,096	838
Non-Labor	4	47	2,348	5,034	4,741
NSE	0	0	0	0	0
Total	6	54	3,243	6,130	5,580
FTE	0.0	0.0	8.1	11.5	9.9
Vacation & Sick (Nomina	al \$)				
Labor	0	1	156	211	151
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	1	156	211	151
FTE	0.0	0.0	1.5	2.3	1.9
Escalation to 2009\$					
Labor	0	1	63	33	0
Non-Labor	1	4	113	-13	0
NSE	0	0	0	0	0
Total	1	5	176	21	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Cor	nstant 2009\$)				
Labor	2	9	1,114	1,340	990
Non-Labor	5	51	2,461	5,022	4,741
NSE	0	0	0	0	0
Total	7	60	3,575	6,362	5,731
FTE	0.0	0.0	9.6	13.8	11.8

<sup>\*</sup> After company-wide exclusions of Non-GRC costs

<sup>\*\*</sup> Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Area: OPEX 20/20
Witness: Phillips, Richard D
Category: A. OpEx 20/20 SCG
Category-Sub: 1. OpEx 20/20 SCG

Workpaper: 2OP002.000 - OPEX 20/20 SCG

#### Summary of Adjustments to Recorded:

In Nominal \$ (000)							
Year	2005	2006	2007	2008	2009		
Labor	0	0	0	0	-680		
Non-Labor	0	0	0	0	-54		
NSE	0	0	0	0	0		
Total	0	0	0	0	-734		
FTE	0.0	0.0	0.0	0.0	-7.6		

#### **Detail of Adjustments to Recorded:**

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	From CCtr	RefID
2005 Total	0	0	0	0.0			
2006 Total	0	0	0	0.0			
2007 Total	0	0	0	0.0			
2008 Total	0	0	0	0.0			
2009	0	-54	0	0.0	CCTR Transf	To 2200-0433.000	TERITRAN20100 616114206180
OpEx misc	reimbursable	transfer for	Superviso	r Enab	lement TAs.		010114200100
2009	-680	0	0	0.0	CCTR Transf	To 2200-0433.000	TERITRAN20100
OpEx labor	transfer for S	upervisor E	nablement	TAs.			616124129497
2009	0	0	0	-7.6	CCTR Transf	To 2200-0433.000	TERITRAN20100 616125041600
OpEX FTE	transfer for S	upervisor E	nablement	TAs.			010123041000
2009 Total	-680	-54	0	-7.6			

**Supplemental Workpapers for Workpaper 20P002.000** 

#### **Total SCG**

Labor	2010	2011	2012
\$	\$2,318	\$816	\$2,230
FTEs	26	7	20
Non-Labor			
Hardware	\$0	\$0	\$0
Software	\$0	\$0	\$0
Contract (excl NSE)	\$184	\$809	\$2,869
NSE Contract Commitment	\$2,451	\$350	\$280
Misc Emp Exp	\$352	\$314	\$314
Other	\$655	\$490	\$708
Total N/L	\$3,643	\$1,964	\$4,171
TOTAL \$	\$5,961	\$2,780	\$6,401
TOTAL FTEs	25.7	7.3	20.1

<sup>(1)</sup> program O&M costs in 2009 direct dollars

#### M&I

Labor	2010	2011	2012
\$	\$1,711	\$0	\$0
FTEs	20.4	0.0	0.0
Non-Labor			
Hardware	\$0	\$0	\$0
Software	\$0	\$0	\$0
Contract (excl NSE)	\$0	\$0	\$0
NSE Contract Commitment	\$2,031	\$0	\$0
Misc Emp Exp	\$247	\$0	\$0
Other	\$165	\$0	\$0
Total N/L	\$2,444	\$0	\$0
TOTAL \$	\$4,155	\$0	\$0
TOTAL FTEs	20.4	0.0	0.0

#### Construction

Labor	2010	2011	2012
\$	\$0	\$215	\$1,629
FTEs	0.0	2.0	14.7
Non-Labor			
Hardware	\$0	\$0	\$0
Software	\$0	\$0	\$0
Contract (excl NSE)	\$184	\$809	\$2,869
NSE Contract Commitment	\$0	\$0	\$0
Misc Emp Exp	\$0	\$209	\$209
Other	\$0	\$0	\$358
Total N/L	\$184	\$1,019	\$3,436
TOTAL \$	\$184	\$1,234	\$5,065
TOTAL FTEs	0.0	2.0	14.7

OIA

Labor	2010	2011	2012
\$	\$17		
FTEs	0.2		
Non-Labor			
Hardware			
Software			
Contract (excl NSE)			
NSE Contract Commitment			
Misc Emp Exp			
Other			
Total N/L	\$0		
TOTAL \$	\$17	\$0	\$0
TOTAL FTEs	0.2	0.0	0.0

#### **SVOC**

Labor	2010	2011	2012
\$	\$15		
FTEs	0.1		
Non-Labor		-	
Hardware			
Software			
Contract (excl NSE)			
NSE Contract Commitment			
Misc Emp Exp			
Other			
Total N/L	\$0		
	-	-	
TOTAL \$	\$15	\$0	\$0
TOTAL FTEs	0.1	0.0	0.0

#### **ICE Self Service - HBA**

Labor	2010	2011	2012
\$	\$0	\$6	\$0
FTEs	0.0	0.1	0.0
Non-Labor			
Hardware			
Software			
Contract (excl NSE)			
NSE Contract Commitment			
Misc Emp Exp			
Other			
Total N/L	\$0	\$0	\$0
TOTAL \$	\$0	\$6	\$0
TOTAL FTEs	0.0	0.1	0.0

#### **ICE Self Service - IVR**

Labor	2010	2011	2012
\$	\$15	\$35	\$41
FTEs	0.1	0.3	0.4
Non-Labor	-		
Hardware			
Software			
Contract (excl NSE)			
NSE Contract Commitment			
Misc Emp Exp			
Other			
Total N/L	\$0	\$0	\$0
TOTAL \$	\$15	\$35	\$41
TOTAL FTEs	0.1	0.3	0.4

#### **PMO**

Labor	2010	2011	2012
\$	\$560	\$560	\$560
FTEs	4.9	4.9	4.9
Non-Labor			
Hardware	\$0	\$0	\$0
Software	\$0	\$0	\$0
Contract (excl NSE)	\$0	\$0	\$0
NSE Contract Commitment	\$420	\$350	\$280
Misc Emp Exp	\$105	\$105	\$105
Other	\$490	\$490	\$350
Total N/L	\$1,015	\$945	\$735
•		-	
TOTAL \$	\$1,575	\$1,505	\$1,295
TOTAL FTEs	4.9	4.9	4.9

# **SCG O&M Hard Savings**

	2010	2011	2012	2010	2011	2012	2010	2011	2012
		Labor		N	lonlabor			Total	
Distribution	652	(1,102)	(2,755)	(28)	(47)	(357)	624	(1,149)	(3,112)
Customer Service	(1,045)	(3,269)	(7,026)	-	-	-	(1,045)	(3,269)	(7,026)
Engineering	(750)	(1,054)	(1,059)	-	-	-	(750)	(1,054)	(1,059)
Storage	-	-	-	-	-	(139)	-	-	(139)
Total (\$1,000)	(1,143)	(5,426)	(10,840)	(28)	(47)	(495)	(1,171)	(5,473)	(11,335)

in 2009 direct dollars

Area: GOOP - OPEX 20/20 Witness: Phillips, Richard D

#### Appendix A: List of Non-Shared Cost Centers

Cost Center	<u>Sub</u>	<u>Description</u>
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