Application of SAN DIEGO GAS & ELECTRIC)
COMPANY for authority to update its gas and)
electric revenue requirement and base rates)
effective January 1, 2016 (U 902-M)	_)
	_ ′
Application No. 14-11	

Exhibit No.: (SDG&E-05-WP)

WORKPAPERS TO PREPARED DIRECT TESTIMONY OF JOHN L. DAGG ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

NOVEMBER 2014



2016 General Rate Case - APP INDEX OF WORKPAPERS

Exhibit SDG&E-05-WP - GAS TRANSMISSION

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Overall Summary For Exhibit No. SDG&E-05-WP

Area: GAS TRANSMISSION

Witness: John L. Dagg

Description
Non-Shared Services
Shared Services
Total

In 2013 \$ (000) Incurred Costs							
Adjusted-Recorded Adjusted-Forecast							
2013	2014	2015	2016				
4,130	4,360	4,379	4,663				
0	0	0	0				
4,130	4,360	4,379	4,663				

Area: GAS TRANSMISSION

Witness: John L. Dagg

Summary of Non-Shared Services Workpapers:

Description

A. Gas Transmission Pipelines

B. Compressor Stations

C. Field Engineering and Technical Support

Total

In 2013 \$ (000) Incurred Costs								
Adjusted- Recorded Adjusted-Forecast								
2013	2014 2015 2016							
1,055	1,094	1,112	1,243					
2,969	3,160	3,161	3,314					
106	106	106	106					
4,130	4,360	4,379	4,663					

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: A. Gas Transmission Pipelines

Workpaper: 1GT000.000

NSE

Total

FTE

Summary for Category: A. Gas Transmission Pipelines

	Adjusted-Recorded		Adjusted-Forecast	
	2013	2014	2015	2016
Labor	785	818	835	925
Non-Labor	215	218	218	257
NSE	54	58	59	61
Total	1,054	1,094	1,112	1,243
FTE	10.6	10.8	11.0	12.0
Workpapers belonging t	o this Category:			
1GT000.000 Pipeline C	Operations			
Labor	785	818	835	925
Non-Labor	215	218	218	257

58

1,094

10.8

59

1,112

11.0

61

1,243

12.0

54

1,054

10.6

In 2013\$ (000) Incurred Costs

Beginning of Workpaper 1GT000.000 - Pipeline Operations

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: A. Gas Transmission Pipelines
Category-Sub
1. Gas Transmission Pipelines
Workpaper: 1GT000.000 - Pipeline Operations

Activity Description:

Operation and Maintenance of SDG&E's Gas Transmission Pipeline operating system.

Forecast Explanations:

Labor - 3-YR Average

3 Year Averaging selected because it represents the most current trend of actual costing applicable to the performance of the activities captured within the cost center and their responsible functionality.

Non-Labor - 3-YR Average

3 Year Averaging selected because it represents the most current trend of actual costing applicable to the performance of the activities captured within the cost center and their responsible functionality.

NSE - Zero-Based

Zero Based selected due to these cost not being subject to standard escalation inflation, or to standardized cost averaging methodology.

Summary of Results:

[In 2013\$ (000) Incurred Costs										
		Adju	ısted-Recor	ded		Adjusted-Forecast					
Years	2009	2010	2011	2012	2013	2014	2015	2016			
Labor	742	806	798	706	785	818	835	925			
Non-Labor	200	193	208	217	215	218	218	257			
NSE	53	61	60	59	54	58	59	61			
Total	994	1,059	1,066	981	1,055	1,094	1,112	1,243			
FTE	10.1	11.2	10.7	9.7	10.6	10.8	11.0	12.0			

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: A. Gas Transmission Pipelines
Category-Sub: 1. Gas Transmission Pipelines
Workpaper: 1GT000.000 - Pipeline Operations

Forecast Summary:

	In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		ast	
Years	s	2014	2015	2016	2014	2015	2016	2014	2015	2016	
Labor	3-YR Average	763	763	763	55	72	162	818	835	925	
Non-Labor	3-YR Average	213	213	213	5	5	44	218	218	257	
NSE	Zero-Based	0	0	0	58	59	61	58	59	61	
Tota	ı	976	976	976	118	136	267	1,094	1,112	1,243	
FTE	3-YR Average	10.3	10.3	10.3	0.5	0.7	1.7	10.8	11.0	12.0	

Forecast Adjustment Details:

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj Type
2014	0	0	58	58	0.0	1-Sided Adj
DOT Pipelii	ne Safety Fee					
2014	55	5	0	60	0.5	1-Sided Adj
Knowledge	Management / S	ucession Sta	ffing			
2014 Total	55	5	58	118	0.5	
2015	0	0	59	59	0.0	1-Sided Adj
DOT Pipelii	ne Safety Fee					
2015	17	0	0	17	0.2	1-Sided Adj
Pipeline Dis	strict Workload Inc	crease				
2015	55	5	0	60	0.5	1-Sided Adj
Knowledge	Management / S	ucession Sta	ffing			
2015 Total	72	5	59	136	0.7	
2016	0	0	61	61	0.0	1-Sided Adj
DOT Pipelii	ne Safety Fee					

Post PSEP Incremental O&M Maintenance - CPUC Decision 14-06-007

39

Note: Totals may include rounding differences.

90

2016

129

1-Sided Adj

1.0

0

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: A. Gas Transmission Pipelines
Category-Sub: 1. Gas Transmission Pipelines
Workpaper: 1GT000.000 - Pipeline Operations

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	FTE Adj Type	
2016	17	0	0	17	0.2 1-Sided Adj	
Pipeline Di	strict Workload In	ıcrease				
2016	55	5	0	60	0.5 1-Sided Adj	
Knowledge	Management / S	Sucession St	taffing			
2016 Total	162	44	61	267	1.7	

San Diego Gas & Electric Company 2016 GRC - APP

Non-Shared Service Workpapers

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: A. Gas Transmission Pipelines
Category-Sub: 1. Gas Transmission Pipelines
Workpaper: 1GT000.000 - Pipeline Operations

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusteu-N	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	611	694	695	639	717
Non-Labor	229	235	258	271	270
NSE	0	0	0	0	0
Total	840	929	953	910	986
FTE	8.8	9.8	9.4	8.7	9.3
Adjustments (Nominal \$) **					
Labor	-19	-40	-27	-35	-39
Non-Labor	-48	-56	-58	-58	-54
NSE	48	56	58	58	54
Total	-19	-40	-27	-35	-39
FTE	-0.1	-0.3	-0.2	-0.3	-0.3
Recorded-Adjusted (Nominal	\$)				
Labor	592	654	668	604	678
Non-Labor	181	179	200	213	215
NSE	48	56	58	58	54
Total	821	889	926	875	947
FTE	8.7	9.5	9.2	8.4	9.0
/acation & Sick (Nominal \$)					
Labor	91	104	98	87	107
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	91	104	98	87	107
FTE	1.5	1.6	1.5	1.4	1.6
Escalation to 2013\$					
Labor	59	48	31	15	0
Non-Labor	19	14	8	4	0
NSE	5	4	2	1	0
Total	82	66	42	19	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constan	t 2013\$)				
Labor	742	806	798	706	785
Non-Labor	200	193	208	217	215
NSE	53	61	60	59	54
Total	994	1,059	1,066	981	1,055
FTE	10.2	11.1	10.7	9.8	10.6

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

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

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: A. Gas Transmission Pipelines
Category-Sub: 1. Gas Transmission Pipelines
Workpaper: 1GT000.000 - Pipeline Operations

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs									
Years	2009	2010	2011	2012	2013				
Labor	-19	-40	-27	-35	-39				
Non-Labor	-48	-56	-58	-58	-54				
NSE	48	56	58	58	54				
Total	-19	-40	-27	-35	-39				
FTE	-0.1	-0.3	-0.2	-0.3	-0.3				

Detail of Adjustments to Recorded:

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	NSE	FTE	<u>Adj Type</u>	From CCtr	<u>RefID</u>		
2009	0	-0.030	0	0.0	1-Sided Adj	N/A	TP2RXL20131201 233559470		
Exclusion of	admin and in	terest fee as	sessed o	on late p	payment of DOT	Safety Fee.	233333410		
2009	0	-48	48	0.0	1-Sided Adj	N/A	TP2RXL20131201 233750833		
NSE Adjustment - DOT Pipeline Safety Fee.									
2009	-19	0	0	-0.1	1-Sided Adj	N/A	TP2RXL20131203 091306733		
Exclusion of cost of meter maintenance related services reimbursed to SDG&E by TGN and BioFuels Co's.									
2009 Total	-19	-48	48	-0.1					
2010	0	-56	56	0.0	1-Sided Adj	N/A	TP2RXL20131201		
NSE Adjustr	nent - DOT Pi	peline Safet	y Fee.				233907770		
2010	-40	0	0	-0.3	1-Sided Adj	N/A	TP2RXL20131203 091957163		
Exclusion of cost of meter maintenance related services reimbursed to SDG&E by TGN and BioFuels Co's.									
2010 Total	-40	-56	56	-0.3					
2011	0	-58	58	0.0	1-Sided Adj	N/A	TP2RXL20131201		

 $\label{eq:NSE-Adjustment-DOT-Pipeline-Safety-Fee.} \\$

Note: Totals may include rounding differences.

234010630

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: A. Gas Transmission Pipelines
Category-Sub: 1. Gas Transmission Pipelines
Workpaper: 1GT000.000 - Pipeline Operations

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	FTE	Adj Type	From CCtr	RefID	
2011	-27	0	0	-0.2	1-Sided Adj	N/A	TP2RXL20131203	
Exclusion of and BioFu		er maintenan	ce related	d servic	es reimbursed to	o SDG&E by TGN	092055873	
2011 Total	-27	-58	58	-0.2				
2012	0	-58	58	0.0	1-Sided Adj	N/A	TP2RXL20131201	
NSE Adjus	stment - DOT I	Pipeline Safe	ty Fee.				234059607	
2012	-35	0	0	-0.3	1-Sided Adj	N/A	TP2RXL20131203	
		er maintenan	ce relate	d servic	es reimbursed to	SDG&E by TGN	092142220	
and BioFu								
2012 Total	-35	-58	58	-0.3				
2013	-39	0	0	-0.3	1-Sided Adj	N/A	TP2RXL20140211	
154044473 Exclusion of cost of meter maintenance related services reimbursed to SDG&E by TGN and BioFuels Co's.								
2013	0	-54	54	0.0	1-Sided Adj	N/A	TP2RXL20140211	
NSE Adjus	stment - DOT	Pipeline Safe	ty Fee.				154137010	
2013 Total	-39	-54	54	-0.3				

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: B. Compressor Stations

Workpaper: 1GT001.000

NSE

Total

FTE

Summary for Category: B. Compressor Stations

	Adjusted-Recorded		Adjusted-Forecast			
	2013	2014	2015	2016		
Labor	1,383	1,473	1,473	1,473		
Non-Labor	1,536	1,631	1,631	1,705		
NSE	50	56	57	136		
Total	2,969	3,160	3,161	3,314		
FTE	14.5	15.6	15.6	15.6		
Workpapers belonging t	o this Category:					
1GT001.000 Compress	sion Stations Operations					
Labor	1,383	1,473	1,473	1,473		
Non-Labor	1,536	1,631	1,631	1,705		

56

3,160

15.6

57

3,161

15.6

50

2,969

14.5

In 2013\$ (000) Incurred Costs

136

3,314

15.6

Beginning of Workpaper

1GT001.000 - Compression Stations Operations

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: B. Compressor Stations
Category-Sub 1. Compressor Stations

Workpaper: 1GT001.000 - Compression Stations Operations

Activity Description:

Operation and Maintenance of SDG&E s Moreno and Rainbow Gas Transmission Compressor Stations.

Forecast Explanations:

Labor - 3-YR Average

3 Year Averaging selected because it represents the most current trend of actual costing applicable to the performance of the activities captured within the cost center and their responsible functionality.

Non-Labor - 3-YR Average

3 Year Averaging selected because it represents the most current trend of actual costing applicable to the performance of the activities captured within the cost center and their responsible functionality.

NSE - Zero-Based

Zero Based selected due to these cost not being subject to standard escalation inflation, or to standardized cost averaging methodology.

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adju	ısted-Recor	Ad	Adjusted-Forecast					
Years	2009	2010	2011	2012	2013	2014	2015	2016		
Labor	1,438	1,423	1,408	1,328	1,383	1,473	1,473	1,473		
Non-Labor	1,746	1,997	1,550	1,412	1,536	1,631	1,631	1,705		
NSE	15	14	19	51	50	56	57	136		
Total	3,198	3,434	2,977	2,790	2,969	3,160	3,161	3,314		
FTE	16.2	15.9	15.4	14.0	14.5	15.6	15.6	15.6		

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: B. Compressor Stations
Category-Sub: 1. Compressor Stations

Workpaper: 1GT001.000 - Compression Stations Operations

Forecast Summary:

	In 2013 \$(000) Incurred Costs										
Forecast Method Base Forecast				Forec	ast Adjust	ments	Adjusted-Forecast				
Years	s	2014	2015	2016	2014	2015	2016	2014	2015	2016	
Labor	3-YR Average	1,373	1,373	1,373	100	100	100	1,473	1,473	1,473	
Non-Labor	3-YR Average	1,499	1,499	1,499	132	132	206	1,631	1,631	1,705	
NSE	Zero-Based	0	0	0	56	57	136	56	57	136	
Tota	ı	2,872	2,872	2,872	288	289	442	3,160	3,161	3,314	
FTE	3-YR Average	14.6	14.6	14.6	1.0	1.0	1.0	15.6	15.6	15.6	

Forecast Adjustment Details:

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type
2014	0	0	46	46	0.0	1-Sided Adj
Re-Claim E	mission Credits	Procurement				
2014	45	5	0	50	0.5	1-Sided Adj
Station Med	chanic Workload	Increase				
2014	0	0	10	10	0.0	1-Sided Adj
State Wate	r Board Fees					
2014	55	5	0	60	0.5	1-Sided Adj
Knowledge	Management / S	Sucession Sta	ffing			
2014	0	122	0	122	0.0	1-Sided Adj
Critical Fac	ility Security Enh	ancement				
2014 Total	100	132	56	288	1.0	
2015	0	0	46	46	0.0	1-Sided Adj
Re-Claim E	mission Credits	Procurement				
2015	0	0	11	11	0.0	1-Sided Adj
Ctata Mata	r Board Fees					
State wate	i boaiu rees					

Station Mechanic Workload Increase

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: B. Compressor Stations
Category-Sub: 1. Compressor Stations

Workpaper: 1GT001.000 - Compression Stations Operations

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	FTE A	dj Type
2015	55	5	0	60	0.5	1-Sided Adj
Knowledge	Management / S	Sucession S	taffing			
2015	0	122	0	122	0.0	1-Sided Adj
Critical Fac	ility Security Enh	ancement				
2015 Total	100	132	57	289	1.0	
2016	0	0	123	123	0.0	1-Sided Adj
Re-Claim E	mission Credits	Procuremer	ıt			
2016	0	0	13	13	0.0	1-Sided Adj
State Water	r Board Fees					
2016	45	5	0	50	0.5	1-Sided Adj
Station Med	chanic Workload	Increase				
2016	55	5	0	60	0.5	1-Sided Adj
Knowledge	Management / S	Sucession S	taffing			
2016	0	122	0	122	0.0	1-Sided Adj
Critical Fac	ility Security Enh	ancement				
2016	0	74	0	74	0.0	1-Sided Adj
GreenHous	e Gas Mitigation	/ Complian	ce - NERBA			
2016 Total	100	206	136	442	1.0	

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Non-Shared Service Workpapers

GAS TRANSMISSION Area:

Witness: John L. Dagg

B. Compressor Stations Category: 1. Compressor Stations Category-Sub:

1GT001.000 - Compression Stations Operations Workpaper:

Determination of Adjusted-Recorded (Incurred Costs):

stermination of Adjusted	i-Recorded (incurred Cos 2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
ecorded (Nominal \$)*					
Labor	1,147	1,154	1,179	1,135	1,194
Non-Labor	1,593	1,856	1,500	1,461	1,585
NSE	0	0	0	0	0
Total	2,740	3,010	2,678	2,596	2,780
FTE	13.8	13.5	13.2	12.1	12.4
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	-13	-5	-10	-74	-50
NSE	13	13	18	50	50
Total	0	8	9	-24	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Nomin	nal \$)				
Labor	1,147	1,154	1,179	1,135	1,194
Non-Labor	1,580	1,850	1,490	1,387	1,536
NSE	13	13	18	50	50
Total	2,740	3,018	2,687	2,572	2,779
FTE	13.8	13.5	13.2	12.1	12.4
acation & Sick (Nominal \$	5)				
Labor	177	184	174	164	189
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	177	184	174	164	189
FTE	2.3	2.3	2.2	1.9	2.2
scalation to 2013\$					
Labor	114	85	55	28	0
Non-Labor	165	146	60	25	0
NSE	1	1	1	1	0
Total	281	232	116	53	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Consta	ant 2013\$)				
Labor	1,438	1,423	1,408	1,328	1,383
Non-Labor	1,746	1,997	1,550	1,412	1,536
NSE	15	14	19	51	50
Total	3,198	3,434	2,977	2,790	2,969
FTE	16.1	15.8	15.4	14.0	14.6

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

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

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: B. Compressor Stations
Category-Sub: 1. Compressor Stations

Workpaper: 1GT001.000 - Compression Stations Operations

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs									
Years	2009	2010	2011	2012	2013				
Labor	0	0	0	0	0				
Non-Labor	-13	-5	-10	-74	-50				
NSE	13	13	18	50	50				
Total	0	8	9	-24	-0.115				
FTE	0.0	0.0	0.0	0.0	0.0				

Detail of Adjustments to Recorded:

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	NSE	FT	E Adj Type	From CCtr	RefID		
2009	0	-13	13	0.0	1-Sided Adj	N/A	TP2RXL20140211		
NSE Adjustme	ent Moreno	Station_ St	ate Wate	r Resou	urce Control Boa	d annual fee.	154514290		
2009 Total	0	-13	13	0.0					
2010	0	10	0	0.0	1-Sided Adj	N/A	TP2RXL20131203		
Transfer in 20	10 County of	of San Diego	- APCD	expens	e incorrectly reco	orded to 2011.	111145557		
2010	0	-2	0	0.0	1-Sided Adj	N/A	TP2RXL20131203		
Exclusion of p	ayments ma	ade to SCAC	QMD for p	ermit vi	iolation fee asses	ssments.	111649533		
2010	0	-0.040	0	0.0	1-Sided Adj	N/A	TP2RXL20131203		
Exclusion of la recorded to 20		nent made to	SCAQM	D on 2	004 annual perm	it fee invoice,	111855977		
2010	0	-13	13	0.0	1-Sided Adj	N/A	TP2RXL20140211		
NSE Adjustme	ent Moreno	Station_ St	ate Wate	r Resou	urce Control Boa	d annual fee.	154554020		
2010 Total	0	-5	13	0.0					
2011	0	-10	0	0.0	1-Sided Adj	N/A	TP2RXL20131203		
Transfer out 2	Transfer out 2010 County of San Diego - APCD expense incorrectly recorded to 2011.								

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Non-Shared Service Workpapers

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: B. Compressor Stations
Category-Sub: 1. Compressor Stations

Workpaper: 1GT001.000 - Compression Stations Operations

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	From CCtr	RefID		
2011	0	18	0	0.0 1	-Sided Adj	N/A	TP2RXL20131203		
Transfer in	n 2011 SWRCI	B expense in	correctly i	recorded	to 2012.		111452830		
2011	0	-18	18	0.0 1	-Sided Adj	N/A	TP2RXL20140211		
NSE Adju	stment Morer	no Station_ S	state Wate	r Resour	ce Control Boa	ard annual fee.	154748640		
2011 Total	0	-10	18	0.0					
2012	0	-5	0	0.0 C	CTR Transf	To 2200-0285.000	TP2RXL20131203		
102343213 Exclusion of SCAQMD payment incorrectly charged to SDG&E's Moreno Comp Station, Cost Center 2100-0170.									
	as applicable t	o SCG's Pla	ya Del Re	y Compr	essor Station,	Cost Center			
2012	0	-18	0	0.0 1	-Sided Adj	N/A	TP2RXL20131203		
Transfer o	out 2011 SWR0	CB expense i	incorrectly	recorde	d to 2012.		103658217		
2012	0	-32	32	0.0 1	-Sided Adj	N/A	TP2RXL20131203		
NSE Adju	stment – SCAC	QMD _ Re-C	laim Emis	sion Cred	dits Procureme	ent.	103813737		
2012	0	-18	18	0.0 1	-Sided Adj	N/A	TP2RXL20140211		
NSE Adju	stment Morer	no Station_ S	tate Wate	r Resour	ce Control Boa	ard annual fee.	154938017		
2012 Total	0	-74	50	0.0					
2013	0	-0.115	0	0.0 1	-Sided Adj	N/A	TP2RXL20140211 150624397		
Adj remov	val of late fee p	payment for N	Moreno St	a SoCal	Edison		150024597		
2013	0	-41	41	0.0 1	-Sided Adj	N/A	TP2RXL20140211		
NSE Adju	stment SCAC	MD _ Re-Cla	aim Emiss	sion Cred	lits Procureme	nt.	153908177		
2013	0	-8	8	0.0 1	-Sided Adj	N/A	TP2RXL20140211		
NSE Adju	stment Morer	no Station_ S	state Wate	r Resour	ce Control Boa	ard annual fee.	155117930		
2013 Total	0	-50	50	0.0					

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: C. Field Engineering and Technical Support

Workpaper: 1GT002.000

Summary for Category: C. Field Engineering and Technical Support

	In 2013\$ (000) Incurred Costs									
	Adjusted-Recorded	ed Adjusted-Forecast								
	2013	2014	2015	2016						
Labor	95	91	91	91						
Non-Labor	11	15	15	15						
NSE	0	0	0	0						
Total	106	106	106	106						
FTE	1.0	0.9	0.9	0.9						

Workpapers belonging to this Category:

1GT002.000 Field Engineering and Technical Support

Labor	95	91	91	91
Non-Labor	11	15	15	15
NSE	0	0	0	0
Total	106	106	106	106
FTE	1.0	0.9	0.9	0.9

Beginning of Workpaper

1GT002.000 - Field Engineering and Technical Support

Non-Shared Service Workpape

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: C. Field Engineering and Technical Support
Category-Sub 1. Field Engineering and Technical Support

Workpaper: 1GT002.000 - Field Engineering and Technical Support

Activity Description:

Engineering and Operational services applicable to analytical and mechanical support of Gas Transmission Pipeline and Gas Compression operation and maintenance activities.

Forecast Explanations:

Labor - 3-YR Average

3 Year Averaging selected because it represents the most current trend of actual costing applicable to the performance of the activities captured within the cost center and their responsible functionality.

Non-Labor - 3-YR Average

3 Year Averaging selected because it represents the most current trend of actual costing applicable to the performance of the activities captured within the cost center and their responsible functionality.

NSE - Zero-Based

Note this cost center and the cost of activites captured within it, have no historical or forecasted cost that qualify for classification as subject to NSE (Non Standard Escalation).

Summary of Results:

	In 2013\$ (000) Incurred Costs								
		Adju	ısted-Recor	ded		Adjusted-Forecast			
Years	2009	2010	2011	2012	2013	2014	2015	2016	
Labor	96	98	81	96	95	91	91	91	
Non-Labor	22	14	28	7	11	15	15	15	
NSE	0	0	0	0	0	0	0	0	
Total	118	113	109	103	106	106	106	106	
FTE	1.0	1.1	8.0	0.9	1.0	0.9	0.9	0.9	

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: C. Field Engineering and Technical Support
Category-Sub: 1. Field Engineering and Technical Support

Workpaper: 1GT002.000 - Field Engineering and Technical Support

Forecast Summary:

	In 2013 \$(000) Incurred Costs									
Forecas	Forecast Method Base Forecast			Forec	ast Adjust	ments	Adjusted-Forecast			
Years	s	2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	3-YR Average	91	91	91	0	0	0	91	91	91
Non-Labor	3-YR Average	15	15	15	0	0	0	15	15	15
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Tota	ıl	106	106	106	0	0	0	106	106	106
FTE	3-YR Average	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	0.9

Forecast Adjustment Details:

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

San Diego Gas & Electric Company 2016 GRC - APP

Non-Shared Service Workpapers

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: C. Field Engineering and Technical Support
Category-Sub: 1. Field Engineering and Technical Support

Workpaper: 1GT002.000 - Field Engineering and Technical Support

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusted-Ne	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	76	80	68	82	82
Non-Labor	20	13	27	7	11
NSE	0	0	0	0	0
Total	97	93	95	89	93
FTE	0.9	0.9	0.7	0.8	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 S	\$)				
Labor	76	80	68	82	82
Non-Labor	20	13	27	7	11
NSE	0	0	0	0	0
Total	97	93	95	89	93
FTE	0.9	0.9	0.7	0.8	0.9
/acation & Sick (Nominal \$)					
Labor	12	13	10	12	13
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	12	13	10	12	13
FTE	0.1	0.2	0.1	0.1	0.1
Escalation to 2013\$					
Labor	8	6	3	2	0
Non-Labor	2	1	1	0	0
NSE	0	0	0	0 2	0
Total	10	7	4		0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant	2013\$)				
Labor	96	98	81	96	95
Non-Labor	22	14	28	7	11
NSE	0	0	0	0	0
Total	118	113	109	103	106
FTE	1.0	1.1	0.8	0.9	1.0

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

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

Area: GAS TRANSMISSION

Witness: John L. Dagg

Category: C. Field Engineering and Technical Support
Category-Sub: 1. Field Engineering and Technical Support

Workpaper: 1GT002.000 - Field Engineering and Technical Support

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:

Year/Expl.	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	From CCtr	<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			

Area: GAS TRANSMISSION

Witness: John L. Dagg

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	<u>Description</u>
2100-0170	000	GAS TRANSMISSION MORENO STATION
2100-0172	000	GAS TRANSMISSION - MIRAMAR
2100-0296	000	GAS FOR GAS OPERATIONS
2100-3420	000	GAS TRANS TECHNICAL SERVICES
2100-3533	000	GAS TRANSMISSION RAINBOW STATION