

Application of SAN DIEGO GAS & ELECTRIC)
COMPANY for authority to update its gas and)
electric revenue requirement and base rates)
effective January 1, 2019 (U 902-M))

Application No. 17-10-____

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

WORKPAPERS TO
PREPARED DIRECT TESTIMONY
OF OMAR RIVERA
ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

OCTOBER 2017



2019 General Rate Case - APP
INDEX OF WORKPAPERS

Exhibit SDG&E-05-WP - GAS SYSTEM INTEGRITY

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

Area:	GAS SYSTEM INTEGRITY
Witness:	Omar Rivera

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Non-Shared Services	151	483	633	958
Shared Services	0	600	600	600
Total	151	1,083	1,233	1,558

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera

Summary of Non-Shared Services Workpapers:

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
A. ASSET MANAGEMENT	0	127	127	127
B. PIPELINE SAFETY & COMPLIANCE	31	31	31	106
C. DAMAGE PREVENTION	120	325	475	725
Total	151	483	633	958

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera
Category: A. ASSET MANAGEMENT
Workpaper: 1SI000.000

Summary for Category: A. ASSET MANAGEMENT

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	0	115	115	115
Non-Labor	0	12	12	12
NSE	0	0	0	0
Total	<u>0</u>	<u>127</u>	<u>127</u>	<u>127</u>
FTE	0.0	2.0	2.0	2.0

Workpapers belonging to this Category:

1SI000.000 GAS CONTRACTOR CONTROLS

Labor	0	115	115	115
Non-Labor	0	12	12	12
NSE	0	0	0	0
Total	<u>0</u>	<u>127</u>	<u>127</u>	<u>127</u>
FTE	0.0	2.0	2.0	2.0

Note: Totals may include rounding differences.

Beginning of Workpaper
1SI000.000 - GAS CONTRACTOR CONTROLS

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera
Category: A. ASSET MANAGEMENT
Category-Sub: 1. ASSET MANAGEMENT
Workpaper: 1SI000.000 - GAS CONTRACTOR CONTROLS

Activity Description:

Gas Contractor Controls collaborates with Company and industry leaders and subject matter experts to formulate and promote policy related to construction contractor safety and pipeline safety/quality oversight. To do this, they must perform the following duties:

- establish, maintain, and expand construction contractor oversight program, including safety (occupational and process), to systematically review, assess, and enhance the management practices related to contractors;
- provide written guidance on inspection of workmanship on the pipeline;
- facilitate invoice approval process via online training and invoice submittal system user support; and
- construction fraud vigilance and training.
- Deliver pipeline construction fraud awareness training;
- Author and maintain Company Gas Standards, Forms, and workflows related to construction contractor oversight and associated information/records collection, including those related to California Public Utilities Code Section 141 Construction and Safety Standards; and
- Develop Safety Congress presentation/content and facilitate quarterly meetings.

Pipeline Safety Management System (PSMS)- Develop and implement a Company-wide PSMS API RP 1173, consistent with PHMSA's recommendation. "PHMSA fully supports the implementation of RP 1173 and plans to promote vigorous conformance to this voluntary standard."

Forecast Explanations:

Labor - Zero-Based

The forecast method developed for this cost category is a zero-based approach. The zero-based approach is used to account for new activities to enhance SDG&E's Gas Contractor Controls department, which do not have a five-year history for the newly inaugurated functions. Labor is composed of Gas Contractor Controls Department management direct salaries associated with the work to support the management and execution of large construction projects.

Non-Labor - Zero-Based

The Non-Labor cost is composed of employees' expenses, employee training costs, software license fees for project management and control systems, and consulting fees.

NSE - Zero-Based

NSE is not applicable to this workgroup

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. ASSET MANAGEMENT
 Category-Sub: 1. ASSET MANAGEMENT
 Workpaper: 1SI000.000 - GAS CONTRACTOR CONTROLS

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	0	0	0	115	115	115	
Non-Labor		0	0	0	0	0	12	12	12	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	0	0	127	127	127	
FTE		0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. ASSET MANAGEMENT
 Category-Sub: 1. ASSET MANAGEMENT
 Workpaper: 1SI000.000 - GAS CONTRACTOR CONTROLS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Zero-Based	0	0	0	115	115	115	115	115	115
Non-Labor	Zero-Based	0	0	0	12	12	12	12	12	12
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		0	0	0	127	127	127	127	127	127
FTE	Zero-Based	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID
2017	RAMP-Post Filing Incre	115	12	0	127	2.0	1-Sided Adj	MGONZALX20170512174145383

Explanation: RAMP Chapter 3- Employee Contractor and Public Safety SDG&E relies heavily on contractors. Major Projects, Construction Services Construction Management, Construction Services Contracting, Aviation Services, and Fire Coordination and Prevention provide construction management and field oversight of all construction performed by contractors on electric distribution. This includes safeguarding that all contracted work is built to SDG&E design and safety standards and in accordance with GO 95 (Rules for Overhead Electric Line Construction) and GO 128 (Rules for Construction of Underground Electric Supply and Communications Systems).

Labor costs will be 2 FTEs X \$57,500 = \$115K. Total non-labor is 2 FTEs X \$6K= \$12K.

2017 Total		115	12	0	127	2.0		
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2018	RAMP Incremental	115	12	0	127	2.0	1-Sided Adj	MGONZALX20170512174210250
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Explanation: RAMP Chapter 3- Employee Contractor and Public Safety SDG&E relies heavily on contractors. Major Projects, Construction Services Construction Management, Construction Services Contracting, Aviation Services, and Fire Coordination and Prevention provide construction management and field oversight of all construction performed by contractors on electric distribution. This includes safeguarding that all contracted work is built to SDG&E design and safety standards and in accordance with GO 95 (Rules for Overhead Electric Line Construction) and GO 128 (Rules for Construction of Underground Electric Supply and Communications Systems).

Labor costs will be 2 FTEs X \$57,500 = \$115K. Total non-labor is 2 FTEs X \$6K= \$12K.

2018 Total		115	12	0	127	2.0		
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2019	RAMP Incremental	115	12	0	127	2.0	1-Sided Adj	MGONZALX20170512174319847
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Note: Totals may include rounding differences.

SDG&E/GAS SYSTEM INTEGRITY/Exh No:SDG&E-05-WP/Witness: O. Rivera

San Diego Gas & Electric Company
 2019 GRC - APP
 Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. ASSET MANAGEMENT
 Category-Sub: 1. ASSET MANAGEMENT
 Workpaper: 1SI000.000 - GAS CONTRACTOR CONTROLS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
Explanation:	RAMP Chapter 3- Employee Contractor and Public Safety SDG&E relies heavily on contractors. Major Projects, Construction Services Construction Management, Construction Services Contracting, Aviation Services, and Fire Coordination and Prevention provide construction management and field oversight of all construction performed by contractors on electric distribution. This includes safeguarding that all contracted work is built to SDG&E design and safety standards and in accordance with GO 95 (Rules for Overhead Electric Line Construction) and GO 128 (Rules for Construction of Underground Electric Supply and Communications Systems). Labor costs will be 2 FTEs X \$57,500 = \$115K. Total non-labor is 2 FTEs X \$6K= \$12K.							
2019 Total		115	12	0	127	2.0		

Note: Totals may include rounding differences.

SDG&E/GAS SYSTEM INTEGRITY/Exh No:SDG&E-05-WP/Witness: O. Rivera

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera
Category: A. ASSET MANAGEMENT
Category-Sub: 1. ASSET MANAGEMENT
Workpaper: 1SI000.000 - GAS CONTRACTOR CONTROLS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (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
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	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
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 2016\$					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	0	0	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

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. ASSET MANAGEMENT
 Category-Sub: 1. ASSET MANAGEMENT
 Workpaper: 1SI000.000 - GAS CONTRACTOR CONTROLS

Summary of Adjustments to Recorded:

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

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

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera
Category: A. ASSET MANAGEMENT
Category-Sub: 1. ASSET MANAGEMENT
Workpaper: 1SI000.000 - GAS CONTRACTOR CONTROLS

RAMP Item # 1

Ref ID: MGONZALX20170512174145383

RAMP Chapter: SDG&E-3

Program Name: Traffic Control Work Group and Equipment

Program Description: Traffic control for construction work

Risk/Mitigation:

Risk: Employee, Contractor and Public Safety (O&M)

Mitigation: Safety Policies & Programs

Forecast CPUC Cost Estimates (\$000)

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Low	0	0	0
High	0	0	0

Funding Source: CPUC-GRC

Forecast Method: Other

Work Type: Mandated

Work Type Citation: n/a

Historical Embedded Cost Estimates (\$000)

Embedded Costs: 0

Explanation:

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera
Category: B. PIPELINE SAFETY & COMPLIANCE
Workpaper: 1SI002.000

Summary for Category: B. PIPELINE SAFETY & COMPLIANCE

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	26	26	26	101
Non-Labor	5	5	5	5
NSE	0	0	0	0
Total	<u>31</u>	<u>31</u>	<u>31</u>	<u>106</u>
FTE	0.3	0.3	0.3	1.0

Workpapers belonging to this Category:

1SI002.000 PIPELINE SAFETY & COMPLIANCE

Labor	26	26	26	101
Non-Labor	5	5	5	5
NSE	0	0	0	0
Total	<u>31</u>	<u>31</u>	<u>31</u>	<u>106</u>
FTE	0.3	0.3	0.3	1.0

Note: Totals may include rounding differences.

Beginning of Workpaper
1SI002.000 - PIPELINE SAFETY & COMPLIANCE

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: B. PIPELINE SAFETY & COMPLIANCE
 Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE
 Workpaper: 1SI002.000 - PIPELINE SAFETY & COMPLIANCE

Activity Description:

The Pipeline Safety & Compliance department manages and coordinates SEU activities related to the General Order 112-F CPUC and DOT regulations. Provides counsel, guidance and information to Engineering & Operations and Field Services groups on pipeline safety issues relative to CPUC & DOT regulations. Specific activities associated with this work group include representing SDG&E in all interactions with the CPUC Utility Safety and Reliability Branch related to natural gas operations as well as provide direction and guidance to utility personnel to assure compliance with DOT/CPUC pipeline regulatory operations.

Forecast Explanations:

Labor - Base YR Rec

As the foundation for future labor expense requirements, the base year method was selected. This forecasting methodology serves to more accurately represent this work group. However, new State regulations and enhancements are emerging and thus requiring additional staffing and resources to comply. These incremental costs have been identified and added to the base year.

Non-Labor - Base YR Rec

As the foundation for future non-labor expense requirements, the base year method was selected. This forecasting methodology serves to more accurately represent this work group. However, new State regulations and enhancements are emerging and thus requiring additional staffing and resources to comply. These incremental costs have been identified and added to the base year.

NSE - Base YR Rec

NSE is not applicable to this workgroup

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	0	1	26	26	26	101	
Non-Labor		0	0	0	1	5	4	4	4	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	2	31	30	30	105	
FTE		0.0	0.0	0.0	0.0	0.3	0.3	0.3	1.0	

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: B. PIPELINE SAFETY & COMPLIANCE
 Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE
 Workpaper: 1SI002.000 - PIPELINE SAFETY & COMPLIANCE

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Base YR Rec	26	26	26	0	0	75	26	26	101
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		31	31	31	0	0	75	31	31	106
FTE	Base YR Rec	0.3	0.3	0.3	0.0	0.0	0.7	0.3	0.3	1.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID
2017 Total		0	0	0	0	0.0		
2018 Total		0	0	0	0	0.0		
2019	Other	75	0	0	75	0.7	1-Sided Adj	MGONZALX20170512151554380
2019 Total		75	0	0	75	0.7		

Explanation: Adjustment to make the SDG&E Pipeline Safety & Compliance advisor 100%
 Labor for 0.7 FTE = \$75K

Note: Totals may include rounding differences.

SDG&E/GAS SYSTEM INTEGRITY/Exh No:SDG&E-05-WP/Witness: O. Rivera

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: B. PIPELINE SAFETY & COMPLIANCE
 Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE
 Workpaper: 1SI002.000 - PIPELINE SAFETY & COMPLIANCE

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	1	23
Non-Labor	0	0	0	1	5
NSE	0	0	0	0	0
Total	0	0	0	2	27
FTE	0.0	0.0	0.0	0.0	0.3
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	0	1	23
Non-Labor	0	0	0	1	5
NSE	0	0	0	0	0
Total	0	0	0	2	27
FTE	0.0	0.0	0.0	0.0	0.3
Vacation & Sick (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	0.0
Escalation to 2016\$					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	0	1	26
Non-Labor	0	0	0	1	5
NSE	0	0	0	0	0
Total	0	0	0	2	31
FTE	0.0	0.0	0.0	0.0	0.3

* After company-wide exclusions of Non-GRC costs

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

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: B. PIPELINE SAFETY & COMPLIANCE
 Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE
 Workpaper: 1SI002.000 - PIPELINE SAFETY & COMPLIANCE

Summary of Adjustments to Recorded:

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

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

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera
Category: C. DAMAGE PREVENTION
Workpaper: 1SI003.000

Summary for Category: C. DAMAGE PREVENTION

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	0	0	0	0
Non-Labor	120	325	475	725
NSE	0	0	0	0
Total	<u>120</u>	<u>325</u>	<u>475</u>	<u>725</u>
FTE	0.0	0.0	0.0	0.0

Workpapers belonging to this Category:

1SI003.000 DAMAGE PREVENTION AND PUBLIC AWARENESS

Labor	0	0	0	0
Non-Labor	120	325	475	725
NSE	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	<u>120</u>	<u>325</u>	<u>475</u>	<u>725</u>
FTE	0.0	0.0	0.0	0.0

Note: Totals may include rounding differences.

Beginning of Workpaper
1SI003.000 - DAMAGE PREVENTION AND PUBLIC AWARENESS

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: C. DAMAGE PREVENTION
 Category-Sub: 1. DAMAGE PREVENTION
 Workpaper: 1SI003.000 - DAMAGE PREVENTION AND PUBLIC AWARENESS

Activity Description:

SDG&E has developed and implemented a federally-mandated Public Awareness program, as prescribed in 49 CFR 192.616. The Public Awareness program contributes to enhanced public safety by providing certain risk mitigation measures. In adopting these Public Awareness program requirements, the Pipeline and Hazardous Materials Safety Administration (PHMSA) determined that “effective public awareness programs are vital to continued safe pipeline Operations” and that “such programs are an important factor in establishing communications with affected stakeholders, providing information necessary to enhance public awareness of pipelines, and communicating stakeholder roles relative to pipeline safety.” The federal regulations directing the implementation of this program specifically require that the program include activities to educate the public, appropriate government organizations, and persons engaged in excavation-related activities regarding: (1) Use of the one-call notification system prior to excavation and other damage prevention activities; (2) possible hazards associated with unintended releases from a gas pipeline facility; (3) Physical indications that such a release may have occurred; (4) steps that should be taken for public safety in the event of a gas pipeline release; and (5) procedures for reporting such an event.

Forecast Explanations:

Labor - 5-YR Average

Labor is not applicable to this workgroup.

Non-Labor - 5-YR Average

The services provided within this workgroup fluctuate from year-to-year. For this reason, a historical five-year average of the recorded non-labor expenditures for the years 2012 through 2016 was determined to be most representative ongoing non-labor requirements. Our damage prevention data demonstrates that when we perform public awareness activities that the number of damages decrease while the number of calls to 811(Underground Service Alert) increases, therefore we plan to increase our cost in these areas to further contribute to lowering the numbers of damages to our system while also contributing to mitigate our number one threat to our system, third party damages.

NSE - 5-YR Average

NSE is not applicable to this workgroup.

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	0	0	0	0	0	0	
Non-Labor		347	266	222	172	120	325	475	725	
NSE		0	0	0	0	0	0	0	0	
Total		347	266	222	172	120	325	475	725	
FTE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: C. DAMAGE PREVENTION
 Category-Sub: 1. DAMAGE PREVENTION
 Workpaper: 1SI003.000 - DAMAGE PREVENTION AND PUBLIC AWARENESS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	5-YR Average	0	0	0	0	0	0	0	0	0
Non-Labor	5-YR Average	225	225	225	100	250	500	325	475	725
NSE	5-YR Average	0	0	0	0	0	0	0	0	0
Total		225	225	225	100	250	500	325	475	725
FTE	5-YR Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID
2017	RAMP Incremental	0	100	0	100	0.0	1-Sided Adj	ANTROTTE20170626072327620

Explanation: RAMP Chapter 2- Catastrophic Damage Involving Third Party Dig-Ins
 Adding RAMP Incremental \$100k for non-labor for Damage Prevention Public Awareness. Public Awareness is mandated pursuant to Title 49 CFR 192.616. Its purpose is to develop and implement a continuing public education program focused on use of the one-call notification system; hazards associated with the unintended release of gas; physical indications that an unintended release of gas has occurred; steps that should be taken to protect public safety in the event of gas release; and procedures for reporting unintended releases of gas. SDG&E utilizes multiple channels for this communication such as billboards, bill inserts, radio announcements, bumper stickers, safety events, press releases, social media, and sponsorships to capture a vast audience.

2017 Total		0	100	0	100	0.0		
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2018	RAMP Incremental	0	250	0	250	0.0	1-Sided Adj	ANTROTTE20170626072537133
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Explanation: RAMP Chapter 2- Catastrophic Damage Involving Third Party Dig-Ins
 Adding RAMP Incremental \$250k for non-labor for Damage Prevention Public Awareness. Public Awareness is mandated pursuant to Title 49 CFR 192.616. Its purpose is to develop and implement a continuing public education program focused on use of the one-call notification system; hazards associated with the unintended release of gas; physical indications that an unintended release of gas has occurred; steps that should be taken to protect public safety in the event of gas release; and procedures for reporting unintended releases of gas. SDG&E utilizes multiple channels for this communication such as billboards, bill inserts, radio announcements, bumper stickers, safety events, press releases, social media, and sponsorships to capture a vast audience.

2018 Total		0	250	0	250	0.0		
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2019	RAMP Incremental	0	500	0	500	0.0	1-Sided Adj	ANTROTTE20170626072632847
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Note: Totals may include rounding differences.

SDG&E/GAS SYSTEM INTEGRITY/Exh No:SDG&E-05-WP/Witness: O. Rivera

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Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: C. DAMAGE PREVENTION
 Category-Sub: 1. DAMAGE PREVENTION
 Workpaper: 1SI003.000 - DAMAGE PREVENTION AND PUBLIC AWARENESS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>	<u>RefID</u>
Explanation:								
RAMP Chapter 2- Catastrophic Damage Involving Third Party Dig-Ins Adding RAMP Incremental \$500k for non-labor for Damage Prevention Public Awareness. Public Awareness is mandated pursuant to Title 49 CFR 192.616. Its purpose is to develop and implement a continuing public education program focused on use of the one-call notification system; hazards associated with the unintended release of gas; physical indications that an unintended release of gas has occurred; steps that should be taken to protect public safety in the event of gas release; and procedures for reporting unintended releases of gas. SDG&E utilizes multiple channels for this communication such as billboards, bill inserts, radio announcements, bumper stickers, safety events, press releases, social media, and sponsorships to capture a vast audience.								
2019 Total		0	500	0	500	0.0		

Note: Totals may include rounding differences.

SDG&E/GAS SYSTEM INTEGRITY/Exh No:SDG&E-05-WP/Witness: O. Rivera

San Diego Gas & Electric Company
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Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: C. DAMAGE PREVENTION
 Category-Sub: 1. DAMAGE PREVENTION
 Workpaper: 1SI003.000 - DAMAGE PREVENTION AND PUBLIC AWARENESS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	334	260	220	171	120
NSE	0	0	0	0	0
Total	334	260	220	171	120
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	0	0	0	0
Non-Labor	334	260	220	171	120
NSE	0	0	0	0	0
Total	334	260	220	171	120
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 2016\$					
Labor	0	0	0	0	0
Non-Labor	13	6	1	1	0
NSE	0	0	0	0	0
Total	13	6	1	1	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	0	0	0
Non-Labor	347	266	222	172	120
NSE	0	0	0	0	0
Total	347	266	222	172	120
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.

San Diego Gas & Electric Company
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 Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: C. DAMAGE PREVENTION
 Category-Sub: 1. DAMAGE PREVENTION
 Workpaper: 1SI003.000 - DAMAGE PREVENTION AND PUBLIC AWARENESS

Summary of Adjustments to Recorded:

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

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

San Diego Gas & Electric Company
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Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera
Category: C. DAMAGE PREVENTION
Category-Sub: 1. DAMAGE PREVENTION
Workpaper: 1SI003.000 - DAMAGE PREVENTION AND PUBLIC AWARENESS

RAMP Item # 1

Ref ID: ANTROTTE20170626072327620

RAMP Chapter: SDG&E-2

Program Name: Damage Prevention Public Awareness

Program Description: Promotion of excavation safety to contractors and the public

Risk/Mitigation:

Risk: Catastrophic Damage Involving Third Party Dig-Ins (O&M)

Mitigation: Public Awareness

Forecast CPUC Cost Estimates (\$000)

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Low	0	0	0
High	0	0	0

Funding Source: CPUC-GRC

Forecast Method: Other

Work Type: Mandated

Work Type Citation: Title 49 CFR 192.616

Historical Embedded Cost Estimates (\$000)

Embedded Costs: 124.831

Explanation:

San Diego Gas & Electric Company
 2019 GRC - APP
 Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera

Summary of Shared Services Workpapers:

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
A. CODES AND STANDARDS	0	600	600	600
Total	0	600	600	600

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
 2019 GRC - APP
 Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. CODES AND STANDARDS
 Cost Center: 2100-3563.000

Summary for Category: A. CODES AND STANDARDS

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	0	0	0	0
Non-Labor	0	600	600	600
NSE	0	0	0	0
Total	<u>0</u>	<u>600</u>	<u>600</u>	<u>600</u>
FTE	0.0	0.0	0.0	0.0

Cost Centers belonging to this Category:

2100-3563.000 CODES STANDARDS AND RECORDS

Labor	0	0	0	0
Non-Labor	0	600	600	600
NSE	0	0	0	0
Total	<u>0</u>	<u>600</u>	<u>600</u>	<u>600</u>
FTE	0.0	0.0	0.0	0.0

Note: Totals may include rounding differences.

Beginning of Workpaper
2100-3563.000 - CODES STANDARDS AND RECORDS

San Diego Gas & Electric Company
2019 GRC - APP
Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. CODES AND STANDARDS
 Category-Sub: 1. CODES AND STANDARDS
 Cost Center: 2100-3563.000 - CODES STANDARDS AND RECORDS

Activity Description:

Codes and Standards help the two utilities meet their regulatory obligations and allow for information exchange to enhance public and employee safety. The CPUC annually audits both companies and their gas standards. The cost reflects the non-labor support needed to manage and provide consistency across both companies with respect to the gas standards, and to prepare documentation and perform follow-up work resulting from CPUC audits.

Forecast Explanations:

Labor - Zero-Based

Labor is not applicable to this workgroup.

Non-Labor - Zero-Based

The forecast method developed for this cost category is a zero-based approach. The zero-based approach is used to account for new activities to enhance SDG&E's Codes Standards and Records non-labor, which do not have a five-year history for the newly inaugurated functions.

NSE - Zero-Based

NSE is not applicable to this workgroup.

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	8	5	0	0	0	0	0	
Non-Labor		0	1	0	0	0	600	600	600	
NSE		0	0	0	0	0	0	0	0	
Total		0	8	5	0	0	600	600	600	
FTE		0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. CODES AND STANDARDS
 Category-Sub: 1. CODES AND STANDARDS
 Cost Center: 2100-3563.000 - CODES STANDARDS AND RECORDS

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	0	0	0	0	0.0	0	600	0	600	0.0
Total Incurred	0	0	0	0	0.0	0	600	0	600	0.0
% Allocation										
Retained	13.35%	13.35%				13.35%	13.35%			
SEU	86.65%	86.65%				86.65%	86.65%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	0	600	0	600	0.0	0	600	0	600	0.0
Total Incurred	0	600	0	600	0.0	0	600	0	600	0.0
% Allocation										
Retained	13.35%	13.35%				13.35%	13.35%			
SEU	86.65%	86.65%				86.65%	86.65%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Coming soon...

Cost Center Allocation Percentage for 2017

Coming soon...

Cost Center Allocation Percentage for 2018

Coming soon...

Cost Center Allocation Percentage for 2019

Coming soon...

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. CODES AND STANDARDS
 Category-Sub: 1. CODES AND STANDARDS
 Cost Center: 2100-3563.000 - CODES STANDARDS AND RECORDS

Summary of Adjustments to Forecast:

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Zero-Based	0	0	0	0	0	0	0	0	0
Non-Labor	Zero-Based	0	0	0	600	600	600	600	600	600
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		0	0	0	600	600	600	600	600	600
FTE	Zero-Based	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID
2017	RAMP Incremental	0	600	0	600	0.0	1-Sided Adj	MGONZALX20170628165636900

Explanation: RAMP Chapter 13- Records Management Incremental non-labor added of \$600K due to Records Management
 While there are several current and planned IT applications and enhancements to support records management, SDG&E proposes an initiative to further digitize its records. SDG&E's records have evolved over the life of the operational assets, and transferring existing paper records to an electronic format (digitization) is one aspect of modernizing SDG&E's records. In addition to digitization, SDG&E's initiative will also add searchability and traceability functionality. Regulatory compliance standards increasingly require that utilities be able to efficiently and effectively identify specific attributes related to operational assets. As a result, having IT applications for records management that enable searchability and traceability functionality are important. SDG&E has identified IT solutions to support the modernization effort. The intent of these projects is to leverage existing investments in information technology while providing improved functionality to address operational needs in the records management area.

2017 Total		0	600	0	600	0.0		
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2018	RAMP Incremental	0	600	0	600	0.0	1-Sided Adj	MGONZALX20170628165652727
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Note: Totals may include rounding differences.

SDG&E/GAS SYSTEM INTEGRITY/Exh No:SDG&E-05-WP/Witness: O. Rivera

San Diego Gas & Electric Company
2019 GRC - APP
Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. CODES AND STANDARDS
 Category-Sub: 1. CODES AND STANDARDS
 Cost Center: 2100-3563.000 - CODES STANDARDS AND RECORDS

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
Explanation:	RAMP Chapter 13- Records Management Incremental non-labor added of \$600K due to Records Management While there are several current and planned IT applications and enhancements to support records management, SDG&E proposes an initiative to further digitize its records. SDG&E's records have evolved over the life of the operational assets, and transferring existing paper records to an electronic format (digitization) is one aspect of modernizing SDG&E's records. In addition to digitization, SDG&E's initiative will also add searchability and traceability functionality. Regulatory compliance standards increasingly require that utilities be able to efficiently and effectively identify specific attributes related to operational assets. As a result, having IT applications for records management that enable searchability and traceability functionality are important. SDG&E has identified IT solutions to support the modernization effort. The intent of these projects is to leverage existing investments in information technology while providing improved functionality to address operational needs in the records management area.							

2018 Total		0	600	0	600	0.0		
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2019 RAMP Incremental		0	600	0	600	0.0	1-Sided Adj	MGONZALX20170628165707903
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Explanation:	RAMP Chapter 13- Records Management Incremental non-labor added of \$600K due to Records Management While there are several current and planned IT applications and enhancements to support records management, SDG&E proposes an initiative to further digitize its records. SDG&E's records have evolved over the life of the operational assets, and transferring existing paper records to an electronic format (digitization) is one aspect of modernizing SDG&E's records. In addition to digitization, SDG&E's initiative will also add searchability and traceability functionality. Regulatory compliance standards increasingly require that utilities be able to efficiently and effectively identify specific attributes related to operational assets. As a result, having IT applications for records management that enable searchability and traceability functionality are important. SDG&E has identified IT solutions to support the modernization effort. The intent of these projects is to leverage existing investments in information technology while providing improved functionality to address operational needs in the records management area.							
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2019 Total		0	600	0	600	0.0		
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Note: Totals may include rounding differences.

SDG&E/GAS SYSTEM INTEGRITY/Exh No:SDG&E-05-WP/Witness: O. Rivera

San Diego Gas & Electric Company
2019 GRC - APP
Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. CODES AND STANDARDS
 Category-Sub: 1. CODES AND STANDARDS
 Cost Center: 2100-3563.000 - CODES STANDARDS AND RECORDS

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	0	6	4	0	0
Non-Labor	0	1	0	0	0
NSE	0	0	0	0	0
Total	0	7	4	0	0
FTE	0.0	0.1	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	6	4	0	0
Non-Labor	0	1	0	0	0
NSE	0	0	0	0	0
Total	0	7	4	0	0
FTE	0.0	0.1	0.0	0.0	0.0
Vacation & Sick (Nominal \$)					
Labor	0	1	1	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	1	1	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2016\$					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	0	8	5	0	0
Non-Labor	0	1	0	0	0
NSE	0	0	0	0	0
Total	0	8	5	0	0
FTE	0.0	0.1	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.

San Diego Gas & Electric Company
2019 GRC - APP
Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. CODES AND STANDARDS
 Category-Sub: 1. CODES AND STANDARDS
 Cost Center: 2100-3563.000 - CODES STANDARDS AND RECORDS

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0.409	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0.409	0
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015	Other	0	0	0	0.0	1-Sided Adj	MGONZALX20170511224532213
2015 Total		0	0	0	0.0		
2016 Total		0	0	0	0.0		

Explanation: Adjustment to zero out the credit shown in this historical expenditure so that a proper forecast methodology can be selected.

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2019 GRC - APP
Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
 Witness: Omar Rivera
 Category: A. CODES AND STANDARDS
 Category-Sub: 1. CODES AND STANDARDS
 Cost Center: 2100-3563.000 - CODES STANDARDS AND RECORDS

RAMP Item # 1

Ref ID: MGONZALX20170307130726653

RAMP Chapter: SDG&E-13

Program Name: Periodic Independent Internal Audits of Records Management

Program Description: Records Management Group performs an internal audit of selected departments annually

Risk/Mitigation:

Risk: Records Management (O&M)
 Mitigation: Administrative

Forecast CPUC Cost Estimates (\$000)

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Low	2	2	2
High	2	2	2

Funding Source: CPUC-GRC
 Forecast Method: Zero-Based
 Work Type: Mandated
 Work Type Citation: Pending

Historical Embedded Cost Estimates (\$000)

Embedded Costs: 0
 Explanation: 0

San Diego Gas & Electric Company
2019 GRC - APP
Shared Services Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera
Category: A. CODES AND STANDARDS
Category-Sub: 1. CODES AND STANDARDS
Cost Center: 2100-3563.000 - CODES STANDARDS AND RECORDS

RAMP Item # 2

Ref ID: MGONZALX20170628165636900

RAMP Chapter: SDG&E-13

Program Name: Information Management Systems

Program Description: Regulatory compliance standards increasingly require that utilities be able to efficiently and effectively identify specific attributes related to operational assets

Risk/Mitigation:

Risk: Insufficient data back-up policies, procedures or processes

Mitigation: Information Management Systems

Forecast CPUC Cost Estimates (\$000)

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Low	0	0	0
High	0	0	0

Funding Source: CPUC-GRC

Forecast Method: Other

Work Type: Non-Mandated

Work Type Citation: n/a

Historical Embedded Cost Estimates (\$000)

Embedded Costs: 0

Explanation:

San Diego Gas & Electric Company
2019 GRC - APP
Non-Shared Service Workpapers

Area: GAS SYSTEM INTEGRITY
Witness: Omar Rivera

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	Description
2100-3612	000	SDG&E PUBLIC AWARENESS
2100-3942	000	PIPELINE SAFE & COMP
2100-7200	000	Gas Mapping - from 2100-3425
2100-7201	000	GIS Strategy & App Support - from 2100-3821