

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-03-WP)

WORKPAPERS TO PREPARED
DIRECT TESTIMONY OF
DAVID L. GEIER
AND
DOUGLAS M. SCHNEIDER
ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

NOVEMBER 2014



Electric Risk-Cost-Mapping Detail

The table that follows is a breakdown of the expenditures show in table at page 12 of Exhibit SDG&E-03. These values apply to SDG&E only, there are none for SoCalGas.

Detail of Exhibit SDG&E-03 Geier, Electric risk types			
	SDG&E	SDG&E	All
Risk type	Capital	O&M	Total
	\$000	\$000	\$000
Infrastructure Integrity, Physical Security and Environmental	\$100,497	\$11,220	\$111,717
Cyber Security and Customer Data Privacy	\$11,584	\$6,541	\$18,125
Wildfires	\$140,112	\$28,851	\$168,963
System Reliability	\$395,467	\$123,901	\$519,368
Public & Employee Safety, Disaster Recovery	\$31,074	\$26,715	\$57,789
Total	\$678,734	\$197,228	\$875,962

The first table that follows identifies the witness area, name and exhibit number of the source information used to construct the table on DLG-12 of Exhibit SDG&E-03. The second table provides the value detail, organized first as a rollup summary in the top rows, and the values from individual witness areas follows in subsequent rows. For the purposes of the summary table shown in SDG&E-03 at page 12, some categories were combined (e.g. Infrastructure Integrity, Physical Security and Environmental). In the detail table below, these categories are shown as individual line items.

Witness Area and Name	SDG&E Exhibit
Electric Distribution O&M - Jonathan Woldemariam	SDG&E-10
Electric Distribution Capital - John Jenkins	SDG&E-09
Electric Generation - Carl LaPeter	SDG&E-11
Customer Services Operations - Brad Baugh	SDG&E-14
HR - Sarah Edgar	SDG&E-24
IT - Stephen Mikovits	SDG&E-19

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Risk type	SDG&E Capital	SDG&E O&M	SDG&E Total
Totals from all witnesses (\$thousands)			
Public Safety	26,958	18,865	45,823
Employee Safety	4,116	7,246	11,362
Infrastructure Integrity	83,173	11,220	94,393
Customer Data Privacy	-	771	771
Environmental Risks	14,822	-	14,822
Wildfires	140,112	28,851	168,963
Cyber Security	11,584	5,770	17,354
Systemwide Reliability	395,467	123,901	519,368
Natural Disaster and Disaster Recovery	-	604	604
Physical Security	2,502	-	2,502
Total	678,734	197,228	875,962
Electric Distribution O&M - Jonathan Woldemariam			
Public Safety	-	18,865	18,865
Employee Safety	-	7,246	7,246
Infrastructure Integrity	-	11,220	11,220
Customer Data Privacy	-	-	-
Environmental Risks	-	-	-
Wildfires	-	28,851	28,851
Cyber Security	-	-	-
Systemwide Reliability	-	69,486	69,486
Natural Disaster and Disaster Recovery	-	-	-
Physical Security	-	-	-
Electric Distribution Capital - John Jenkins			
Public Safety	26,958	-	26,958
Employee Safety	4,116	-	4,116
Infrastructure Integrity	83,173	-	83,173
Customer Data Privacy	-	-	-
Environmental Risks	14,822	-	14,822
Wildfires	140,112	-	140,112
Cyber Security	-	-	-
Systemwide Reliability	356,976	-	356,976
Natural Disaster and Disaster Recovery	-	-	-
Physical Security	2,502	-	2,502

Electric Operations Risk Policy/Gas Operations Risk Policy/Exh No: SDG&E-03-WP/Witness:
D. Geier/D. Schneider

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Risk type	SDG&E Capital	SDG&E O&M	SDG&E Total
Electric Generation - Carl LaPeter			
Public Safety	-	-	-
Employee Safety	-	-	-
Infrastructure Integrity	-	-	-
Customer Data Privacy	-	-	-
Environmental Risks	-	-	-
Wildfires	-	-	-
Cyber Security	-	-	-
Systemwide Reliability	38,491	54,415	92,906
Natural Disaster and Disaster Recovery	-	-	-
Physical Security	-	-	-
HR - Sarah Edgar			
Public Safety			-
Employee Safety			-
Infrastructure Integrity			-
Customer Data Privacy			-
Environmental Risks			-
Wildfires			-
Cyber Security			-
Systemwide Reliability			-
Natural Disaster and Disaster Recovery	-	604	604
Physical Security			-
Customer Services Operations - Brad Baugh			
Public Safety			-
Employee Safety			-
Infrastructure Integrity			-
Customer Data Privacy	-	771	771
Environmental Risks			-
Wildfires			-
Cyber Security			-
Systemwide Reliability			-
Natural Disaster and Disaster Recovery			-
Physical Security			-

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Risk type	SDG&E	SDG&E		SDG&E
	Capital	O&M		Total
IT- Stephen Mikovits				
Public Safety				-
Employee Safety				-
Infrastructure Integrity				-
Customer Data Privacy				-
Environmental Risks				-
Wildfires				-
Cyber Security	11,584	5,770		17,354
Systemwide Reliability				-
Natural Disaster and Disaster Recovery				-
Physical Security				-

Gas Risk-Cost-Mapping Detail

The table that follows is a breakdown of the expenditures show in the table at page DMS-9 of Exhibit SDG&E-03, by utility.

Detail of Exhibit SDG&E-03 Schneider, Gas risk types								
	SDG&E	SDG&E	SoCalGas	SoCalGas		Total	Total	All
Risk type	Capital	O&M	Capital	O&M		Capital	O&M	Total
	\$000	\$000	\$000	\$000		\$000	\$000	\$000
Infrastructure Integrity, Physical Security and Environmental	\$74,954	\$21,383	\$682,061	\$183,027		\$757,015	\$204,410	\$961,425
Cyber Security and Customer Data Privacy	\$-	\$-	\$31,570	\$1,294		\$31,570	\$1,294	\$32,864
System Reliability	\$60,754	\$9,021	\$441,641	\$106,056		\$502,395	\$115,077	\$617,472
Public & Employee Safety, Disaster Recovery	\$26,723	\$8,261	\$144,551	\$63,051		\$171,274	\$71,312	\$242,586
Total	\$162,431	\$38,665	\$1,299,823	\$353,428		\$1,462,254	\$392,093	\$1,854,347

The first table that follows identifies the witness area, name and exhibit number of the source information used to construct the table on DMS-9 of Exhibit SDG&E-03. The second table provides the value detail, organized first as a rollup summary in the top rows, and the values from individual witness areas follows in subsequent rows. For the purposes of the summary table shown in DMS-9, some categories were combined (e.g. Infrastructure Integrity, Physical Security and Environmental). In the detail table below, these categories are shown as individual line items.

Witness Area and Name	SDG&E Exhibit	SoCalGas Exhibit
Gas Distribution – Frank Ayala	SDG&E-04	SCG-04
Gas Transmission - John Dagg	SDG&E-05	SCG-05
Gas Engineering - Ray Stanford	SDG&E-06	SCG-07
Gas Storage - Phil Baker	none	SCG-06
TIMP/DIMP - Maria Martinez	SDG&E-07	SCG-08
Customer Services Operations - Evan Goldman	none	SCG-11
IT - Chris Olmsted	none	SCG-18

Electric Operations Risk Policy/Gas Operations Risk Policy/Exh No: SDG&E-03-WP/Witness:
D. Geier/D. Schneider

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Risk type	SDG&E	SDG&E	SoCalGas	SoCalGas	SDG&E	SoCalGas	Total
	Capital	O&M	Capital	O&M	Total	Total	All
Totals from all witnesses (\$thousands)							
Public Safety	21,032	4,953	116,279	28,143	25,985	144,422	170,407
Employee Safety	5,691	3,308	27,262	32,421	8,999	59,683	68,682
Infrastructure Integrity	74,954	21,383	671,337	179,735	96,337	851,072	947,409
Customer Data Privacy	-	-	2,995	507	-	3,502	3,502
Environmental Risks	-	-	-	3,292	-	3,292	3,292
Wildfires	-	-	1,010	-	-	1,010	1,010
Cyber Security	-	-	28,575	787	-	29,362	29,362
Systemwide Reliability	60,754	9,021	441,641	106,056	69,775	547,697	617,472
Natural Disaster and Disaster Recovery	-	-	-	2,487	-	2,487	2,487
Physical Security	-	-	10,724	-	-	10,724	10,724
Total	162,431	38,665	1,299,823	353,428	201,096	1,653,251	1,854,347
Gas Distribution - Frank Ayala							
Public Safety	21,032	4,492	116,279	24,585	25,524	140,864	166,388
Employee Safety	5,691	3,308	27,262	32,421	8,999	59,683	68,682
Infrastructure Integrity	32,616	8,640	278,359	53,600	41,256	331,959	373,215
Customer Data Privacy	-	-	-	-	-	-	-
Environmental Risks	-	-	-	-	-	-	-
Wildfires	-	-	-	-	-	-	-
Cyber Security	-	-	-	-	-	-	-
Systemwide Reliability	51,373	5,252	312,738	30,971	56,625	343,709	400,334
Natural Disaster and Disaster Recovery	-	-	-	-	-	-	-
Physical Security	-	-	-	-	-	-	-
Gas Engineering - Ray Stanford							
Public Safety	-	461	-	3,558	461	3,558	4,019
Employee Safety	-	-	-	-	-	-	-
Infrastructure Integrity	3,338	-	15,308	-	3,338	15,308	18,646
Customer Data Privacy	-	-	-	-	-	-	-
Environmental Risks	-	-	-	-	-	-	-
Wildfires	-	-	-	-	-	-	-
Cyber Security	-	-	-	-	-	-	-
Systemwide Reliability	9,381	349	104,933	26,436	9,730	131,369	141,099
Natural Disaster and Disaster Recovery	-	-	-	2,487	-	2,487	2,487
Physical Security	-	-	10,724	-	-	10,724	10,724

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Risk type	SDG&E	SDG&E	SoCalGas	SoCalGas		SDG&E	SoCalGas	Total
	Capital	O&M	Capital	O&M		Total	Total	All
Gas Storage - Phil Baker								
Public Safety	-	-	-	-		-	-	-
Employee Safety	-	-	-	-		-	-	-
Infrastructure Integrity	-	-	150,770	5,676		-	156,446	156,446
Customer Data Privacy	-	-	-	-		-	-	-
Environmental Risks	-	-	-	50		-	50	50
Wildfires	-	-	1,010	-		-	1,010	1,010
Cyber Security	-	-	200	-		-	200	200
Systemwide Reliability	-	-	23,970	34,101		-	58,071	58,071
Natural Disaster and Disaster Recovery	-	-	-	-		-	-	-
Physical Security	-	-	-	-		-	-	-
Gas Transmission - John Dagg								
Public Safety	-	-	-	-		-	-	-
Employee Safety	-	-	-	-		-	-	-
Infrastructure Integrity	-	1,243	-	23,259		1,243	23,259	24,502
Customer Data Privacy	-	-	-	-		-	-	-
Environmental Risks	-	-	-	3,242		-	3,242	3,242
Wildfires	-	-	-	-		-	-	-
Cyber Security	-	-	-	-		-	-	-
Systemwide Reliability	-	3,420	-	14,548		3,420	14,548	17,968
Natural Disaster and Disaster Recovery	-	-	-	-		-	-	-
Physical Security	-	-	-	-		-	-	-
TIMP/DIMP - Maria Martinez								
Public Safety	-	-	-	-		-	-	-
Employee Safety	-	-	-	-		-	-	-
Infrastructure Integrity	39,000	11,500	226,900	97,200		50,500	324,100	374,600
Customer Data Privacy	-	-	-	-		-	-	-
Environmental Risks	-	-	-	-		-	-	-
Wildfires	-	-	-	-		-	-	-
Cyber Security	-	-	-	-		-	-	-
Systemwide Reliability	-	-	-	-		-	-	-
Natural Disaster and Disaster Recovery	-	-	-	-		-	-	-
Physical Security	-	-	-	-		-	-	-

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Risk type	SDG&E	SDG&E	SoCalGas	SoCalGas		SDG&E	SoCalGas	Total
	Capital	O&M	Capital	O&M		Total	Total	All
Customer Services Operations - Evan Goldman								
Public Safety						-	-	-
Employee Safety						-	-	-
Infrastructure Integrity						-	-	-
Customer Data Privacy	-	-	2,995	507		-	3,502	3,502
Environmental Risks						-	-	-
Wildfires						-	-	-
Cyber Security						-	-	-
Systemwide Reliability						-	-	-
Natural Disaster and Disaster Recovery						-	-	-
Physical Security						-	-	-
IT - Chris Olmsted								
Public Safety						-	-	-
Employee Safety						-	-	-
Infrastructure Integrity						-	-	-
Customer Data Privacy						-	-	-
Environmental Risks						-	-	-
Wildfires						-	-	-
Cyber Security			28,375	787		-	29,162	29,162
Systemwide Reliability						-	-	-
Natural Disaster and Disaster Recovery						-	-	-
Physical Security						-	-	-

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