

Company: Southern California Gas Company (U 904 G)/San Diego Gas & Electric  
Company (U 902 M)  
Proceeding: 2019 General Rate Case  
Application: A.17-10-\_\_\_\_  
Exhibit: SCG-29/SDG&E-27

**SOCALGAS / SDG&E DIRECT TESTIMONY OF NEIL K. CAYABYAB**  
**(CORPORATE CENTER - INSURANCE)**

**October 6, 2017**

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**



A  Sempra Energy utility® A  Sempra Energy utility®

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## SUMMARY

O&M (Shared)	2016 (\$000's)	2019 (\$000's)	Change (\$000's)
SDG&E Allocations	107,362	126,270	18,908
SoCalGas Allocations	36,183	38,560	2,377
Total Utilities	143,545	164,830	21,285

- The total amount of increase from the General Rate Case (GRC) Base Year 2016 to the GRC Test Year (TY) 2019 is estimated to be \$21,285,000 for San Diego Gas & Electric Company (SDG&E) and Southern California Gas Company (SoCalGas) combined.
  - These changes are based on multiple factors, including expected insurance market conditions, insurance broker estimates (primarily provided by Marsh USA, Inc. (Marsh)), and loss history.
  - Requested increases are primarily driven by primary and excess property, and liability insurance.
    - Primary Property
      - Driven primarily by broker estimates and forecasted increase in values.
    - Excess Property
      - Based on Oil Insurance Limited's (OIL) premium forecast.
    - Excess Liability
      - Driven primarily by underwriter concerns with the California legal environment and broker estimates.
    - Fire Liability
      - Driven by insurer losses worldwide (particularly in California) and underwriter concerns with inverse condemnation.
- SDG&E and SoCalGas request the establishment of a new two-way Liability Insurance Premium Balancing Account. These new balancing accounts are necessary to protect against the possible increase in the need for additional amounts of liability insurance and because of market fluctuations in the cost of liability insurance.

**SOCALGAS/SDG&E DIRECT TESTIMONY OF NEIL K. CAYABYAB**  
**(CORPORATE CENTER - INSURANCE)**

**I. INTRODUCTION**

**A. Summary of Proposals**

I sponsor the TY 2019 forecast for operations and maintenance (O&M) costs associated with Corporate Center Insurance for SDG&E and SoCalGas. Table NKC-1 below summarizes my sponsored costs. As will be discussed in greater detail later in the chapter, our 2019 estimates are based on our loss history, input from our primary insurance broker Marsh, and expected insurance market conditions.

**TABLE NKC-1**

**Insurance**

**Test Year 2019 General Rate Case  
Testimony Table**

Services Provided	Corporate Center			Utility Allocations		
	Base Year 2016	2016-2019 Incr/(Decr)	Forecast 2019	Base Year 2016	2016-2019 Incr/(Decr)	Forecast 2019
<i>(2016 \$ - 000's)</i>						
A Property	12,160	8,144	20,304	10,117	5,959	16,076
B Liability	151,148	15,817	166,965	133,330	15,232	148,562
C Surety Bonds	199	120	319	98	93	192
Total	<u>\$163,506</u>	<u>\$24,082</u>	<u>\$187,588</u>	<u>\$143,545</u>	<u>\$21,285</u>	<u>\$164,830</u>
<b>Allocations</b>						
SDG&E	107,362	18,908	126,270			
So Cal Gas	36,183	2,377	38,560			
Total Utility	<u>143,545</u>	<u>21,285</u>	<u>164,830</u>			
Global / Retained	19,961	2,797	22,758			
Total	<u>\$163,506</u>	<u>\$24,082</u>	<u>\$187,588</u>			

**B. Cost Allocation Methods**

The Sempra Energy (Sempra) corporate insurance department procures insurance on behalf of SDG&E, SoCalGas, and other Sempra business units. Our insurance program generally provides coverage for all of Sempra's business units including SDG&E and SoCalGas. Insurance premiums are therefore billed in accordance with the following cost allocation priorities:

1. Direct Assignment,
2. Causal / Beneficial (CB), and
3. Multi-Factor Allocations

1 a. Multi-Factor Basic

2 b. Multi-Factor Split

3 Greater detail on allocation method by line of coverage is provided later in my testimony.

4 In general, Direct Assignment policies are procured for a specific business unit or when  
5 an insurance carrier provides a specific premium allocation for specific business units. These  
6 costs are directly allocated to the applicable business unit. For example, there are several  
7 railroad protective liability policies<sup>1</sup> and each policy provides coverage for specific projects  
8 performed by SDG&E and SoCalGas respectively.

9 The CB allocation method is used when insurance coverage is provided for multiple  
10 business units under a single insurance policy. This method is typically used when the primary  
11 driver of premiums is a single key risk factor. For example, the fire insurance premium  
12 allocation is based on overhead transmission and distribution miles for SDG&E, SoCalGas, and  
13 Sempra Global<sup>2</sup> business units in proportion to the total amount.

14 Multi-factor allocations are used when insurance policies provide coverage for a broad  
15 spectrum of risks that cannot be allocated by a single factor. For example, our excess liability  
16 policy provides coverage for non-wildfire third-party bodily injury and property damage. The  
17 multi-factor allocation method has been a Commission-approved method in the past. See the  
18 testimony and work papers of Corporate Center – General Administration witness Mia L.  
19 DeMontigny (Exhibit (Ex.) SCG-28/SDG&E-26) for more detail on the multi-factor allocation  
20 methods.

21 **II. SHARED COSTS**

22 SDG&E's and SoCalGas' insurance needs are generally grouped into three categories:

- 23 • Property – Provides coverage for losses or damage to Sempra assets;
- 24 • Liability – Provides coverage for legal liability resulting from third-party claims; and
- 25 • Surety Bonds – Backstops contractual performance obligations Sempra Energy has to  
26 other parties.

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<sup>1</sup> Provides coverage for Sempra business units' work within a railway's right of ways.

<sup>2</sup> Sempra Global (Global) is the holding company for most of Sempra Energy's business units that are not subject to regulation by the California Public Utilities Commission (Commission or CPUC).

1 **A. Property**

2 Table NKC-2 below provides a summary of Sempra’s property insurance and allocation  
3 of costs to SDG&E and SoCalGas for TY 2019.

4 **TABLE NKC-2**  
5 **Property Insurance**

**Test Year 2019 General Rate Case**  
**Testimony Table**

<i>(2016 \$ - 000's)</i>	Corporate Center			Utility Allocations		
	Base Year 2016	2016-2019 Incr/(Decr)	Forecast 2019	Base Year 2016	2016-2019 Incr/(Decr)	Forecast 2019
<b>Services Provided</b>						
A-1 Primary	6,082	3,075	9,157	4,796	1,612	6,409
A-2 Excess	4,941	5,253	10,194	4,359	4,549	8,908
A-3 Other Property	1,136	(184)	953	961	(202)	759
Total	<u>\$12,160</u>	<u>\$8,144</u>	<u>\$20,304</u>	<u>\$10,117</u>	<u>\$5,959</u>	<u>\$16,076</u>
<b>Allocations</b>						
SDG&E	6,199	3,710	9,910			
So Cal Gas	3,918	2,249	6,166			
Total Utility	10,117	5,959	16,076			
Global / Retained	2,043	2,185	4,228			
Total	<u>\$12,160</u>	<u>\$8,144</u>	<u>\$20,304</u>			

6  
7 **1. Activity Descriptions and Allocations**

8 **a. Primary Property (A1)**

9 Sempra’s primary property program (also known as the OIL “wrap” program)<sup>3</sup> provides  
10 coverage for direct physical damage to property owned by SDG&E, SoCalGas, and other  
11 Sempra business units. Business Interruption coverage is included for Sempra’s business units,  
12 except SDG&E and SoCalGas, and therefore is not included in the final costs allocated to  
13 SDG&E and SoCalGas. Covered perils include machinery breakdown, earthquake, flood, and  
14 terrorism. Significant exclusions include electric and gas distribution and transmission lines.  
15 Property is valued at full replacement cost.

16 **Allocation of Costs:** For Primary Property we allocate costs based on risk-adjusted rates  
17 applied to the replacement value of property for each business unit. We use a loss-sensitivity

<sup>3</sup> Referred to as the OIL “wrap” program because it is designed to supplement the excess property program coverage provided by OIL, our insurance mutual). The supplemental coverage includes the lowering of excess property’s minimum deductible level, the addition of business interruption insurance (excluding SDG&E and SoCalGas), and additional limits in excess of OIL’s maximum limits.

1 factor for business units that have sustained a loss. The allocation percentages are shown in  
2 Table NKC-3 below.

3 **TABLE NKC-3**

		<b>Allocation Rates</b>	
		2016	2019
<b>Primary Property</b>	SDG&E	59.2%	53.3%
	SoCalGas	19.6%	16.7%
	Global / Retained	21.1%	30.0%
		100.0%	100.0%

4  
5 **b. Excess Property (A2)**

6 The Excess Property Insurance program (provided by industry mutual OIL) includes  
7 coverage for physical damage, earthquake, flood, excess pollution liability, control of well, and  
8 does not exclude losses from terrorism. Major exclusions include business interruption, extra  
9 expense, and electric transmission and distribution systems.

10 **Allocation of Costs:** Excess Property Insurance is allocated based on reported asset  
11 values that cover Sempra business units benefitting from the program and is shown in Table  
12 NKC-4 below.

13 **TABLE NKC-4**

		<b>Allocation Rates</b>	
		2016	2019
<b>Excess Property</b>	SDG&E	47.9%	46.9%
	SoCalGas	40.3%	40.4%
	Global / Retained	11.8%	12.6%
		100.0%	100.0%

14  
15 **c. Other Property (A3)**

16 **i. Control of Well (A3.1)**

17 Control of Well provides coverage for gas storage wells for well-control incidents.  
18 Coverage includes cost to control a well that is out of control (as that term is defined by the  
19 policy). It also includes coverage for the cost to re-drill wells, and any pollution arising from an  
20 out-of-control incident.



1                                   **2. Forecast Approach**

2                   A forecast was developed for each individual type of insurance policy. In general,  
3 property insurance premiums are influenced by several factors that are directly related to Sempra  
4 business unit operations and impacts from the worldwide insurance marketplace. Each of our  
5 individual insurance programs are subject to specific market conditions. Worldwide losses such  
6 as earthquakes, floods, or hurricanes, as well as Sempra business unit losses, can negatively  
7 impact future premiums.

8                   Due to the unexpected nature of perils covered by our commercial insurance policies, it is  
9 difficult to forecast future premiums with reasonable certainty. As such, our premiums are  
10 primarily based on forecasts provided by our primary insurance broker, Marsh,<sup>4</sup> a forecast  
11 received from our Excess Property insurer (OIL),<sup>5</sup> as well as our loss history and projected  
12 increase in total insurable values. OIL’s base premium is calculated using a post-loss funding  
13 mechanism such that incurred losses are paid back over a period of five years. The base  
14 premium is then adjusted depending on deductible, limits, assets, and industry segment.

15                   Specific Factors Influencing Sempra within the Property Marketplace:

- 16                   • Program Structure – Our current property program utilizes a mutual insurance  
17 company, OIL and a commercially purchased insurance program (OIL “wrap”) that  
18 supplements OIL’s coverage. This type of program is somewhat unique within the  
19 power and utility space as there are a limited number of insurance carriers willing to  
20 provide this type of coverage. However, this arrangement results in lower costs and  
21 enhanced coverage, such as control of well and excess pollution liability coverage,  
22 which generally is not included under most property policies.
- 23                   • Catastrophe Exposure – SDG&E’s and SoCalGas’ assets are located in California and  
24 subject to potential earthquake risk. Generally, insurance capacity available for  
25 catastrophic risks is limited and if offered, is typically available at a higher cost and  
26 reduced coverage when compared to OIL.<sup>6</sup>

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<sup>4</sup> See the March 6, 2017 letter of Marsh USA titled Premium Estimates (Appendix B).

<sup>5</sup> See the September 12, 2017 premium indication email from OIL (Appendix C).

<sup>6</sup> See the June 6, 2017 email from Marsh outlining the cost to purchase equivalent earthquake coverage from commercial insurance markets (Appendix D).

1                                   **3.       Program Marketing Approach**

2                   Our primary property program is comprised of several insurance companies located in the  
3 United States (US) , United Kingdom (UK)/Europe, and Bermuda. We access global capacity as  
4 a means to diversify and potentially increase the amount of capacity available. This strategy  
5 helps to reduce our credit risk and increases competition. For example, in 2014 our property  
6 program consisted of approximately 74% UK/Europe and 26% US market participation. As of  
7 2016, our property program consists of approximately 50% UK/Europe, 44% US, and 6%  
8 Bermuda participation. We meet with existing and potential new insurance markets annually.  
9 During those meetings, we typically review our assets, property risk mitigation strategies, and  
10 risk controls in place for each business unit covered by our property program. This strategy has  
11 helped reduce our property premiums from 2013 to 2016 as listed in my workpapers at A-1.

12                   Our excess property program insurance is provided by OIL. OIL is a mutual insurance  
13 company providing coverage for members engaged in energy operations. Premiums are  
14 formulaic, but, as a mutual, OIL relies on member input, which helps to influence product  
15 offering, evolution, and development. To that end, OIL holds an annual general meeting to give  
16 members an opportunity to provide input and vote on OIL policy proposals. A representative  
17 from Sempra’s corporate insurance department typically participates in that meeting.

18                                   **B.       Liability**

19                   Table NKC-6 below provides a summary of Sempra’s liability insurance and allocation  
20 of costs to SDG&E and SoCalGas for TY 2019.

**Table NKC-6**  
**Liability Insurance**

**Test Year 2019 General Rate Case**  
**Testimony Table**

Services Provided	(2016 \$ - 000's)					
	Corporate Center			Utility Allocations		
	Base Year 2016	2016-2019 Incr/(Decr)	Forecast 2019	Base Year 2016	2016-2019 Incr/(Decr)	Forecast 2019
B-1 General Excess	69,714	(490)	69,224	53,893	(1,110)	52,783
B-2 Fire	74,599	14,667	89,266	74,546	14,644	89,190
B-3 D&O	1,374	173	1,547	687	87	774
B-4 Fiduciary	616	97	713	471	73	544
B-5 Workers Comp	2,689	1,537	4,226	2,357	1,529	3,887
B-6 Other Liability	2,155	(167)	1,988	1,375	10	1,385
Total	<u>\$151,148</u>	<u>\$15,817</u>	<u>\$166,965</u>	<u>\$133,330</u>	<u>\$15,232</u>	<u>\$148,562</u>
<b>Allocations</b>						
SDG&E	101,115	15,115	116,231			
So Cal Gas	32,214	117	32,331			
Total Utility	<u>133,330</u>	<u>15,232</u>	<u>148,562</u>			
Global / Retained	17,818	585	18,403			
Total	<u>\$151,148</u>	<u>\$15,817</u>	<u>\$166,965</u>			

**1. Activity Descriptions and Cost Allocation**

**a. General Excess Liability (B-1)**

General excess liability provides coverage against Sempra business units for their legal liability resulting from third-party property damage, bodily injury or personal injury. Coverage includes operational pollution liability, auto liability, and employer’s liability. Major exclusions include property damage to property owned by the insured, injury to the insured’s employees, and pollution liability subsequent to disposal.

**Allocation of Costs:** Coverage costs are allocated using the Multi-Factor Basic as shown in Table NKC-7 below.

**TABLE NKC-7**

Multi-Factor Basic		Allocation Rates	
		2016	2019
	SDG&E	36.5%	35.3%
	SoCalGas	39.5%	40.9%
	Global / Retained	24.0%	23.8%
		<u>100.0%</u>	<u>100.0%</u>

1                                   **b.     Wildfire Liability (B2)**

2                                   i.     Wildfire Liability (B2.1)

3             Wildfire liability provides coverage for third-party liability for bodily injury, property  
4 damage or personal injury arising from wildfires. Major exclusions include property damage to  
5 property owned by the insured, injury to the insured’s employees, and international losses.

6             **Allocation of Costs:** Costs are allocated based on a causal relationship, using the miles  
7 of overhead electrical line as the factor. The allocation is shown in Table NKC-8 below.

8                                   **TABLE NKC-8**

		<b>Allocation Rates</b>	
		<u>2016</u>	<u>2019</u>
<b>Fire Insurance</b>	SDG&E	99.5%	99.7%
	SoCalGas	0.4%	0.2%
	Global / Retained	0.1%	0.1%
		<u>100.0%</u>	<u>100.0%</u>

9  
10                                   ii.    Wildfire Property Damage Reinsurance (B2.2)

11             Wildfire property damage reinsurance provides coverage for third-party legal liability for  
12 property damage arising out of wildfires. Coverage is provided by reinsurance markets, a  
13 different market from the insurers providing coverage in section B2.1 above. Major exclusions  
14 include bodily injury and fire following earthquake.

15             **Allocation of Costs:** Based on a causal relationship, using the miles of overhead  
16 electrical line as the factor, costs are allocated as shown in Table NKC-9 below.

17                                   **TABLE NKC-9**

		<b>Allocation Rates</b>	
		<u>2016</u>	<u>2019</u>
<b>Fire Insurance</b>	SDG&E	99.5%	99.7%
	SoCalGas	0.4%	0.2%
	Global / Retained	0.1%	0.1%
		<u>100.0%</u>	<u>100.0%</u>

1 **c. D&O Liability (B3)**

2 Directors and officers (D&O) liability provides coverage for corporate directors and  
3 officers against claims alleging financial loss arising from mismanagement. Major exclusions  
4 include fraudulent or criminal acts, and claims covered under other liability policies.

5 **Allocation of Costs:** Costs are allocated using the Multi-Factor Split as shown in Table  
6 NKC-10 below.

7 **TABLE NKC-10**  
8

<b>Multi-Factor Split</b>		<b>Allocation Rates</b>	
		<b>2016</b>	<b>2019</b>
	SDG&E	24.0%	23.2%
	SoCalGas	26.0%	26.8%
	Global / Retained	50.0%	50.0%
		100.0%	100.0%

9  
10 **d. Fiduciary Liability (B4)**

11 Fiduciary liability provides coverage for liability arising from wrongful acts committed  
12 by employee benefit program fiduciaries.

13 **Allocation of Costs:** Costs are allocated using the Multi-Factor Basic, as shown in Table  
14 NKC-11 below.

15 **TABLE NKC-11**

<b>Multi-Factor Basic</b>		<b>Allocation Rates</b>	
		<b>2016</b>	<b>2019</b>
	SDG&E	36.5%	35.3%
	SoCalGas	39.5%	40.9%
	Global / Retained	24.0%	23.8%
		100.0%	100.0%

16  
17 **e. Worker's Compensation (B5)**

1 Worker's compensation provides coverage for employee job-related injuries or diseases.  
 2 Each state requires that benefits be paid to injured employees with the amount and term set by  
 3 the state based upon the type and extent of injury. These benefits can be paid by insurance or  
 4 state approved self-insurance. Both may be used as proof that the state-required benefits can and  
 5 will be paid by the employer.

6 i. Excess Workers' Compensation (XS WC) Insurance (B5.1)

7 Sempra self-insures its workers' compensation exposure for Corporate Center, Global,  
 8 SDG&E, and SoCalGas employees in the State of California. However, Sempra purchases an  
 9 XS WC policy to provide coverage for large claims for California employees.

10 **Allocation of Costs:** Costs are allocated based on payroll per business units covered as  
 11 shown in Table NKC-12 below.

12 **TABLE NKC-12**

		<b>Allocation Rates</b>	
		2016	2019
<b>California Excess Workers Comp</b>	SDG&E	36.4%	36.9%
	SoCalGas	58.8%	57.3%
	Global / Retained	4.8%	5.9%
		<u>100.0%</u>	<u>100.0%</u>

13  
 14 ii. Workers' Compensation & Employers' Liability (WC/EL)  
 15 Insurance – All states other than California (B5.2)

16 WC/EL liability insurance provides coverage to Sempra companies outside of California,  
 17 for statutory benefits payable under the workers' compensation statutes of the various states. It  
 18 also covers Corporate Center employees permanently assigned outside of California and  
 19 employer liability arising from employee injuries not covered by workers' compensation.

20 **Allocation of Costs:** Coverage costs are allocated based on payroll per business units  
 21 covered as shown in Table NKC-13 below.

**TABLE NKC-13**

		<b>Allocation Rates</b>	
		2016	2019
<b>Non-California Workers Comp</b>	SDG&E	4.9%	10.5%
	SoCalGas	0.7%	2.0%
	Global / Retained	94.4%	87.5%
		100.0%	100.0%

**f. Other Liability (B-6)**

**i. Cyber Insurance (B6.1)**

Sempra’s cyber policy provides coverage for loss of personal information relating to customers or employees that have been caused by a cyber incident. This policy also includes breach response, data asset restoration, and cyber extortion coverage for cyber incidents to Sempra’s systems. Sempra purchased cyber liability insurance starting in 2014.

**Allocation of Costs:** Costs are allocated using the Multi-Factor Basic, as shown in Table NKC-14 below.

**TABLE NKC-14**

		<b>Allocation Rates</b>	
		2016	2019
<b>Multi-Factor Basic</b>	SDG&E	36.5%	35.3%
	SoCalGas	39.5%	40.9%
	Global / Retained	24.0%	23.8%
		100.0%	100.0%

**ii. Auto Liability (B6.2)**

Primary auto liability provides coverage for third-party bodily injury and property damage coverage, as well as comprehensive and collision coverage for actual vehicle value. It also covers all autos within the United States except those owned by SDG&E or SoCalGas in California, which are self-insured in the State of California.

**Allocation of Costs:** Coverage costs are allocated based upon the number of covered vehicles owned per business unit. Corporate Center vehicles are re-allocated by the Multi-Factor

1 method to result in a blended method referred to as “Vehicle.” The allocation is shown in Table  
2 NKC-15 below.

3 **TABLE NKC-15**

<b>Vehicle</b>		<b>Allocation Rates</b>	
		2016	2019
	SDG&E	5.2%	9.3%
	SoCalGas	4.8%	7.6%
	Global / Retained	90.0%	83.1%
		100.0%	100.0%

4  
5 **iii. APS Yuma 500kV Transmission System – Liability (B6.3)**

6 APS procures insurance to cover third-party bodily injury and property damage arising  
7 out of the Yuma 500kV transmission system operations, which is jointly owned by APS and  
8 SDG&E, and charges SDG&E for its portion.

9 **Allocation of Costs:** 100% SDG&E

10 **iv. Railroad Protective (B11)**

11 Railroad protective provides coverage for Sempra business units’ work within railway’s  
12 right of ways.

13 **Allocation of cost:** The costs are directly allocated to the applicable business unit.

14 **v. Broker Service Fee (B4 and A8)**

15 Broker service fee represents compensation for broker services.

16 **Allocation of Costs:** Costs are allocated using the Multi-Factor Basic as shown in Table  
17 NKC-16 below.

18 **TABLE NKC-16**

<b>Multi-Factor Basic</b>		<b>Allocation Rates</b>	
		2016	2019
	SDG&E	36.5%	35.3%
	SoCalGas	39.5%	40.9%
	Global / Retained	24.0%	23.8%
		100.0%	100.0%

1                                   **2. Forecast Approach**

2                   A forecast was developed for each individual type of insurance policy. In general,  
3 liability insurance premiums are influenced by several factors that are directly related to Sempra  
4 business unit operations and conditions that impact the global insurance market place. Each of  
5 our insurance programs are subject to specific market conditions that have various impacts on  
6 insurance pricing. Significant worldwide losses<sup>7</sup> and Sempra business unit losses can negatively  
7 impact future premiums. In fact, the forecast provided herein in my testimony was arrived given  
8 the set of circumstances known to me today. If another event in or outside of our service  
9 territory were to occur before 2019 when our GRC takes effect, these forecasts could be  
10 understated. Due to the unexpected nature of perils covered by our commercial insurance  
11 policies, it is difficult to forecast future premiums with reasonable certainty. As such, our  
12 premiums are primarily based on forecasts provided by our primary insurance broker Marsh, as  
13 well as our loss history and growing insurer concerns with California’s legal environment.

14                   Specific Factors Influencing Sempra within the Liability Marketplace:

- 15                   • Wildfire – Insurers providing wildfire capacity have experienced significant losses  
16                   within the United States and worldwide. Because of this, the number of insurers  
17                   willing to provide wildfire insurance is limited. Despite these challenges, from  
18                   2013 to 2015, Sempra was able to reduce its wildfire premiums by approximately  
19                   18%.<sup>8</sup> However, the September 2015 Butte wildfire in Pacific Gas and Electric  
20                   Company (PG&E)’s service territory<sup>9</sup> negatively impacted wildfire insurance  
21                   markets. This resulted in an increase of Sempra’s fire insurance costs from  
22                   approximately \$69.7M in 2015 to \$74.6M in 2016,<sup>10</sup> and caused several of our  
23                   existing insurers to reduce their renewed capacity. For example, one insurer  
24                   reduced its wildfire capacity by approximately 70%. Replacement of lost capacity  
25                   was ultimately achieved at a higher cost. Increase in premiums and reduction of

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<sup>7</sup> See excerpts from Chubb Bermuda’s 2017 Liability Limit Benchmarks & Large Loss Profile by Individual Sector report (Appendix E).

<sup>8</sup> See my workpapers at B-2.

<sup>9</sup> California Department of Forestry and Fire Protection (CAL FIRE) Incident Information for Butte Fire: [http://calfire.ca.gov/fire\\_protection/downloads/FireReports/Butte/\(Butte\)%2015-CA-AEU-024918\\_Redacted.pdf](http://calfire.ca.gov/fire_protection/downloads/FireReports/Butte/(Butte)%2015-CA-AEU-024918_Redacted.pdf). PG&E’s initial estimated losses ranged between \$350 to \$450 million per PG&E 2015 Annual Report. Estimated losses have since increased to \$750 million per PG&E 2016 Annual Report.

<sup>10</sup> See my workpapers at B-2.

1 capacity was based solely on wildfire insurance market conditions because Sempra  
2 did not have an insurance loss caused by a wildfire during that time period.

- 3 • California Legal Environment relating to strict liability and inverse condemnation –  
4 This California doctrine assigns strict liability to the utility through inverse  
5 condemnation, such that options for a utility’s defense are extremely limited in  
6 certain circumstances. As the Federal Energy Regulatory Commission (FERC) has  
7 recognized, “California utilities can be held strictly liable for damages caused by  
8 their facilities. California’s inverse condemnation doctrine can require a utility to  
9 pay damages whenever its facilities, operating as deliberately designed and  
10 constructed for the public use, are involved in an event that damages third-party  
11 property, regardless of fault.”<sup>11</sup> Because of California’s inverse condemnation  
12 doctrine, insurers require a higher premium than in other States with similar  
13 exposures, or they may refuse to provide insurance coverage at all.
- 14 • Lack of Competition in the Insurance Market – SDG&E and SoCalGas face limited  
15 number of insurance companies willing to write utility insurance. Insurer liability  
16 losses over the last 10 years within California has been particularly challenging and  
17 have caused many insurers to reduce the amount of capacity available. Because of  
18 this, in 2010 Sempra began to access property reinsurance markets as a means to  
19 broaden the available supply of wildfire insurance.

### 20 3. Program Marketing Approach

21 Our Excess Liability, Excess Fire, and Wildfire Damage Reinsurance programs are  
22 comprised of insurance carriers based in the United States, the United Kingdom, and Bermuda.  
23 We have meetings with these insurance markets annually to review our risk reduction measures  
24 and address any concerns and/or questions underwriters may have for each policy. For instance,  
25 wildfire has been a significant concern with insurance carriers over the last several years. In  
26 additional to our annual meetings, approximately every two years we invite our underwriters to  
27 personally tour our wildfire mitigation assets and meet with our experts to address any concerns.

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<sup>11</sup> *San Diego Gas & Electric Company*, 146 FERC ¶ 63,017 at P 23 (2014). See also 146 FERC ¶ 63,017 at P 61 (“presence or absence of fault by the public entity ordinarily is irrelevant”) (quoting *Pacific Bell v. City of San Diego*, 81 Cal. App. 4<sup>th</sup> 596, 602 (2000); *Pacific Bell v. S. Cal. Edison Co.*, 208 Cal. App. 4<sup>th</sup> 1400, 1408 (2012) (finding that strict liability applies to inverse condemnation cases involving power lines).

1 As discussed earlier, this strategy has helped reduce our wildfire insurance premiums from 2013  
2 to 2015. However, we experienced wildfire premium increases in 2016 due to wildfire insurance  
3 market conditions, as previously described.

#### 4 **4. Liability Insurance Premium Balancing Account (LIPBA)**

5 Sempra continues to face increased pressures on litigation and regulatory fronts when it  
6 comes to insurable incidents. As explained above, we continuously work to lower our insurance  
7 costs but have been challenged by insurance industry losses (particularly wildfire) and the  
8 California legal environment. For example, California utilities continue to be subject to Inverse  
9 Condemnation, by which utilities are strictly liable for property damage, irrespective of fault:

10 Article I, section 19 (formerly art. I, § 14) of the California Constitution requires  
11 that just compensation be paid when private property is taken or damaged for  
12 public use. Therefore, a public entity may be liable in an inverse condemnation  
13 action for any physical injury to real property proximately caused by a public  
14 improvement as deliberately designed and constructed, whether or not that injury  
15 was foreseeable, and in the absence of fault by the public entity.<sup>12</sup>

16 In 2010, the Commission recognized this problem in granting SDG&E's Z Factor  
17 application for liability insurance premium and deductible expense increases: "SDG&E has a  
18 heightened risk profile due to its excessive wildfire risk exposure, its legal liability under inverse  
19 condemnation, and the imposition on California investor-owned utilities of strict liability for  
20 wildfires."<sup>13</sup>

21 As described in the testimony of Sandra Hrna (Ex. SDG&E-31), Account 925 in the  
22 Federal Energy Regulatory Commission's (FERC) Uniform System of Accounts (18 C.F.R. Part  
23 101), entitled "Injuries and Damages," includes the costs of losses for injuries and damages  
24 claims not covered by insurance and these expenses are recoverable through rates according to  
25 the standard practice of following FERC's chart of accounts. Further, liability insurance is  
26 necessary to provide a level of protection against inverse condemnation claims and ratepayers  
27 benefit from having lower amounts of liability claims to pay.

28 Because of inverse condemnation claims, SDG&E and SoCalGas may require more  
29 liability insurance than what is projected in the rest of this testimony. With respect to the 2007  
30 Wildfires, for instance, the amounts SDG&E paid out to property owners in settling inverse

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<sup>12</sup> *Marshall v. Dept. of Water and Power*, 219 Cal. App. 3d 1124, 1138 (1990) (citing *Souza v. Silver Development Co.*, (1985) 164 Cal.App.3d 165, 170).

<sup>13</sup> D.10-12-053, Finding of Fact 8.

1 condemnation claims exceeded SDG&E's liability insurance. In addition, due to the uncertainty  
 2 around the need for and the price of additional insurance and because of market fluctuations in  
 3 the cost of liability insurance, SDG&E and SoCalGas are proposing a new two-way balancing  
 4 account for liability insurance premiums. The direct testimonies of Norma Jasso (Ex. SDG&E-  
 5 41) and Rae Marie Yu (Ex. SCG-42) discuss the details of this new account.

6 **C. Surety Bonds**

7 Surety bonds guarantee the contractual performance obligations Sempra Energy has to  
 8 other parties. Bonds are usually required by city, state or federal governmental agencies. The  
 9 types of bonds typically required are franchise bonds, tax bonds, license and permit bonds, and  
 10 appeals bonds. Bond premiums are paid either as a one-time premium for the life of the bond or  
 11 as an annual premium and are procured on an as-required basis. Costs are directly assigned to  
 12 the business unit requiring the bond.

13 **III. CONCLUSION**

14 Table NKC-17 below summarizes all forecasted insurance allocations to SDG&E and  
 15 SoCalGas. The non-Shared Services Administrative and General testimonies for SDG&E and  
 16 SoCalGas respectively show these allocations as charges under appropriate FERC accounts.

17 **TABLE NKC-17**

SDG&E Allocations - Company Code 2100										
		Recorded					Forecast			
		FY2012- NSE	FY2013- NSE	FY2014- NSE	FY2015- NSE	FY2016- NSE	FY2017- NSE	FY2018- NSE	FY2019- NSE	
2100-8953	Property Insurance (non-nuclear)	F924.0	\$ 7,013	\$ 7,723	\$ 7,226	\$ 6,097	\$ 6,185	\$ 6,912	\$ 8,076	\$ 9,895
2100-8954	Property Insurance (nuclear)	F924.1	909	1,050	(369)	16	14	14	14	14
2100-8955	Excess Liability Insurance (PLPD)	F925.0	8,388	9,043	9,067	8,673	24,708	19,383	22,699	24,446
2100-8956	Excess Workers Compensation Insurance	F925.1	944	1,086	796	810	909	1,266	1,392	1,529
2100-8957	Other Liability Insurance (non-nuclear)	F925.3	3,921	2,482	1,372	855	1,272	1,323	1,362	1,401
2100-8958	Other Liability Insurance (nuclear)	F925.4	-	-	-	-	-	-	-	-
2100-8962	Wildfire Liability Insurance	F925.5	84,584	85,146	81,824	69,400	74,274	79,930	85,595	88,985
<b>Total</b>			<b>\$ 105,759</b>	<b>\$ 106,530</b>	<b>\$ 99,916</b>	<b>\$ 85,850</b>	<b>\$ 107,362</b>	<b>\$ 108,829</b>	<b>\$ 119,138</b>	<b>\$ 126,270</b>

SCG Allocations - Company Code 2200										
		Recorded					Forecast			
		FY2012- NSE	FY2013- NSE	FY2014- NSE	FY2015- NSE	FY2016- NSE	FY2017- NSE	FY2018- NSE	FY2019- NSE	
2200-8953	Property Insurance (non-nuclear)	F924.0	\$ 2,635	\$ 3,725	\$ 4,022	\$ 3,570	\$ 3,918	\$ 4,058	\$ 4,929	\$ 6,166
2200-8954	Property Insurance (nuclear)	F924.1	-	-	-	-	-	-	-	-
2200-8955	Excess Liability Insurance (PLPD)	F925.0	8,646	8,801	9,398	9,285	29,185	23,688	26,610	28,337
2200-8956	Excess Workers Compensation Insurance	F925.1	1,070	1,223	1,235	1,301	1,449	1,947	2,143	2,358
2200-8957	Other Liability Insurance (non-nuclear)	F925.3	1,561	1,237	1,585	1,327	1,360	1,355	1,426	1,494
2200-8958	Other Liability Insurance (nuclear)	F925.4	-	-	-	-	-	-	-	-
2200-8962	Wildfire Liability Insurance	F925.5	314	316	309	258	272	184	197	205
<b>Total</b>			<b>\$ 14,227</b>	<b>\$ 15,301</b>	<b>\$ 16,549</b>	<b>\$ 15,742</b>	<b>\$ 36,183</b>	<b>\$ 31,231</b>	<b>\$ 35,305</b>	<b>\$ 38,560</b>

18 This concludes my prepared direct testimony.

1 **IV. WITNESS QUALIFICATIONS**

2 My name is Neil K. Cayabyab. My business address is 488 8<sup>th</sup> Ave, San Diego,  
3 California 92101. I am currently employed by Sempra Energy as the Manager - Insurance &  
4 Risk Management, a position I was hired into in November 2016. Sempra Energy is the parent  
5 company of San Diego Gas & Electric Company (SDG&E) and Southern California Gas  
6 Company (SoCalGas).

7 Prior to joining Sempra, I was employed at Marsh USA for 10 years where I held various  
8 roles ranging from property and casualty placement/client advisor to client executive. My last  
9 role at Marsh was as Client Executive/Associate Client Executive with a focus on Power and  
10 Utility clients. Prior to joining Marsh, I was employed by the United States Navy serving as  
11 nuclear submarine officer for five years.

12 I received a Bachelor's of Science degree in Marine Engineering Systems from the  
13 United States Merchant Marine Academy. I also have Master degrees in Business  
14 Administration from Pepperdine University, and Engineering Management from Old Dominion  
15 University.

16 I have not previously testified before the California Public Utilities Commission.

**APPENDIX A**  
**GLOSSARY OF TERMS**

APS: Arizona Public Service Corporation  
CAL FIRE: California Department of Forestry and Fire Protection  
CB: Causal/Beneficial  
CPUC: California Public Utilities Commission  
D&O: Directors and Officers  
FERC: Federal Energy Regulatory Commission  
GRC: General Rate Case  
LIPBA: Liability Insurance Premium Balancing Account  
Marsh: Marsh USA, Inc.  
O&M: Operations and Maintenance  
OIL: Oil Insurance Limited  
PG&E: Pacific Gas and Electric Company  
SCE: Southern California Edison  
SDG&E: San Diego Gas & Electric Company  
SoCalGas: Southern California Gas Company  
SONGS: San Onofre Nuclear Generating Station  
TY: Test Year  
UK: United Kingdom  
US: United States  
USofA: Uniform System of Accounts  
WC/EL: Workers' Compensation and Employers' Liability  
XS WC: Excess Workers' Compensation

## APPENDIX B



Eric Kolstad  
Managing Director

Marsh USA Inc.  
345 California Ave #1300  
San Francisco, CA 94104  
415 743 8181  
Eric.kolstad@marsh.com  
www.marsh.com

Neil Cayabyab  
Manager - Insurance & Risk  
Sempra Energy  
488 8th Ave  
San Diego, CA 92101

March 6, 2017

**Subject:** Premium Estimates

Dear Neil:

Based upon current market conditions, pricing, expiring program structure and exposures, Marsh projects Sempra Energy's premium to change, at the renewal dates, as follows:

Line of coverage	2017	2018	2019
Property	10.5%	20%	7%
Excess Liability, non-Wildfire	20%	20%	10%
Wildfire, Global Markets	18%	10%	10%
Supplemental Property Damage Wildfire Reins.	-2%	0	5%
D&O	0%	5%	5%
Fiduciary	0%	5%	5%
Work Comp	5%	5%	5%
Excess Work Comp	5%	5%	5%
Auto	10%	5%	5%
Environmental, Gas Storage (Liberty)	0%	5%	5%
International Package	5%	5%	5%
Marine excl Control of Well	3%	3%	3%
Control of Well*	50%	35%	35%
Misc Policies	5%	5%	5%

\*contemplates policy audit adjustment estimates

Page 2  
February 22, 2017  
Neil Cayabyab  
Sempra Energy

Please keep in mind these projections are based on Sempra's existing market relationships. They do not contemplate additional adverse claims or catastrophic industry losses.

Regards,



Eric Kolstad  
Managing Director

EK/vhv

cc: Van H Vong, Marsh  
Wendy Sokol, Marsh  
Luke Stemeck, Marsh  
Janice Kowell, Marsh  
Robert Reader, Guy Carpenter  
Brenda Shelly, Marsh

document2

## APPENDIX C

**From:** Dunlop, Nicole C.  
**To:** [Cayabyab, Neil K](#)  
**Cc:** [Dunlop, Theresa](#)  
**Subject:** [EXTERNAL] FW: Sempra - Premium indication  
**Date:** Tuesday, September 12, 2017 12:52:51 PM

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Neil,

Further to your discussions with Theresa please note the following premium projections for years 2018-2022:

2018	\$7,800,000
2019	\$10,700,000
2020	\$11,000,000
2021	\$12,800,000
2022	\$13,800,000

You will note that premiums increased from the indication sent to you 24-Feb-17. This is due to the increase in Pool %. Take note as Sempra's UGA increase, their percentage of the pool will increase. Specifically Sempra's UGA increased from \$39.6Bn as at 12/31/15 to \$45.3Bn as at 12/31/16 (15% increase).

Please let us know if you have any questions.

Regards,  
Nicole

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## APPENDIX D

NKC-D

**From:** Slemeck, Luke  
**To:** [Cayabyab, Neil K](#)  
**Cc:** [Kolstad, Eric T](#); [Insurance & Risk Advisory](#)  
**Subject:** [EXTERNAL] Rate Case - Data Request - REPLACE OIL  
**Date:** Friday, June 9, 2017 10:09:44 AM

---

Dear Neil

In the event that we need to replace OIL capacity with the commercial market capacity as follows:

We estimate that a rate of 0.075% would apply for an all risk placement including \$200,000,000 of California Earthquake coverage. Using \$18,000,000,000 in value premium would be calculated as follows:

➤  $\$18,000,000,000 \times 0.075\% = \$13,750,000$

As OIL provides \$400,000,000 per occurrence limit additional limits would need to be purchased with estimated costs as follows:

- $\$100,000,000 \text{ at } \$35,000 = \$3,500,000$
- $\$50,000,000 \text{ at } \$25,000 = \$1,250,000$
- $\$50,000,000 \text{ at } \$18,000 = \$900,000$ 
  - SUBTOTAL = \$5,650,000

**ESTIMATED TOTAL = \$19,400,000**

NOTES:

This is a desk quote

California Earthquake limit is \$400,000,000 per occurrence and in the annual aggregate – OIL is on a per occurrence basis

We have not included any costs that Sempra would incur in exiting from OIL

Kind regards

**Luke Slemeck** | Managing Director  
**Marsh** | Energy & Power  
345 California Street, Suite 1300, San Francisco, CA 94104, United States of America  
Office: +1 415 743 7792 | Mobile: +1 917 428 6608 | [luke.slemeck@marsh.com](mailto:luke.slemeck@marsh.com)  
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California Insurance License 0437153

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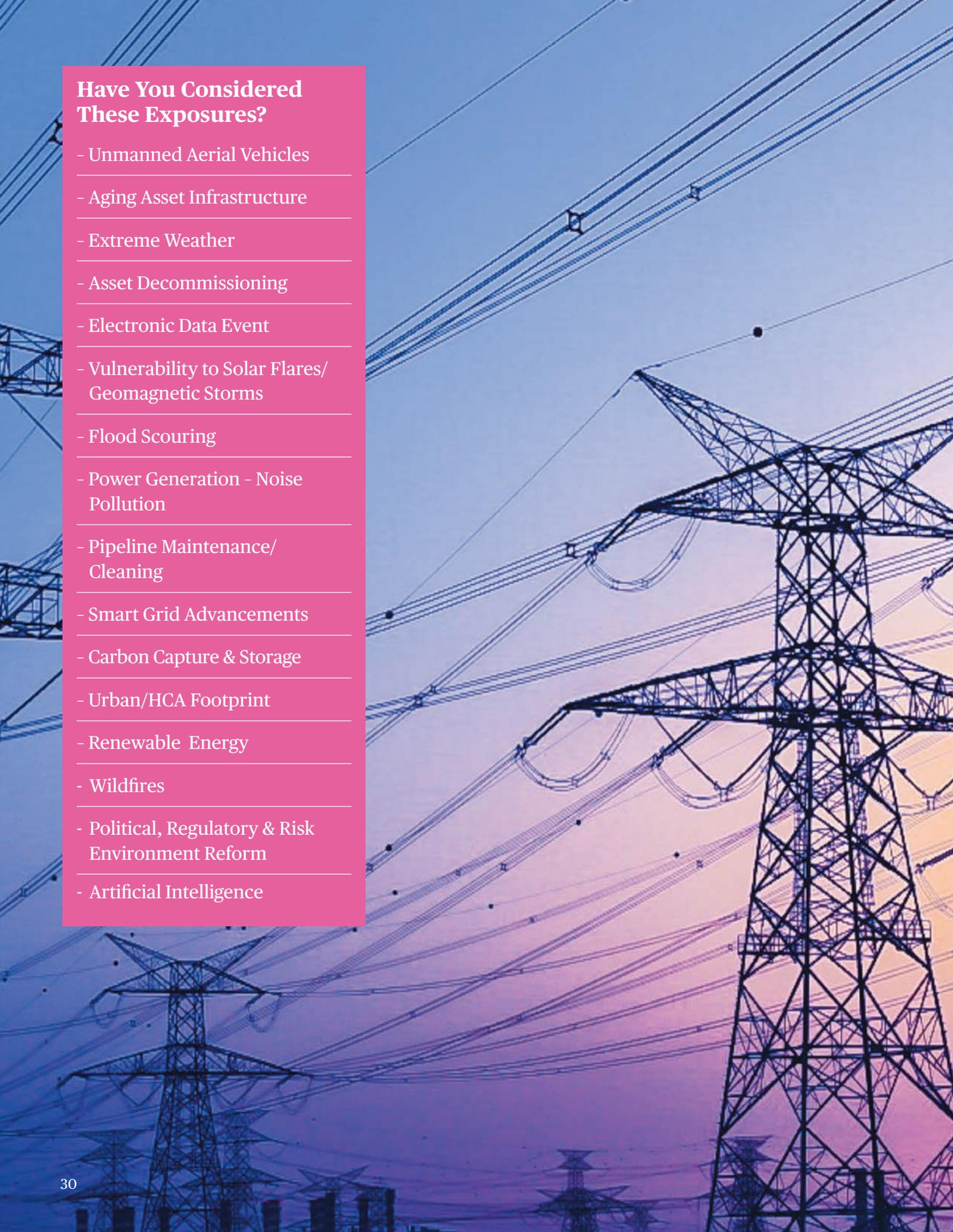
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## APPENDIX E

NKC-E



## Have You Considered These Exposures?

- Unmanned Aerial Vehicles
- Aging Asset Infrastructure
- Extreme Weather
- Asset Decommissioning
- Electronic Data Event
- Vulnerability to Solar Flares/  
Geomagnetic Storms
- Flood Scouring
- Power Generation - Noise  
Pollution
- Pipeline Maintenance/  
Cleaning
- Smart Grid Advancements
- Carbon Capture & Storage
- Urban/HCA Footprint
- Renewable Energy
- Wildfires
- Political, Regulatory & Risk  
Environment Reform
- Artificial Intelligence

# Utilities Sector - Energy



# Utilities Sector – Energy

Companies engaged in the generation, transmission and distribution of electricity including the transmission or distribution of gas.

## Sample Large Losses for Industry - 10 year

Date of Loss	Loss Details	Location	Incurred Amount
2007	Water from hydroelectric power plant damaged nearby property	USA	\$173 million
2007	Wildfire	USA	\$2.2 billion
2007	Utility company vessel crashed into anchored oil tanker causing oil spill	China	\$142 million
2007	Wildfire	USA	\$370 million
2008	Impoundment failure	USA	\$1.1 billion <sup>1</sup>
2008	Gas line explosion resulted in fatality and injuries	USA	\$25 million
2009	Explosion at hydroelectric plant with multiple fatalities	Russia	3rd Party Unknown
2009	Electrocution caused fatality	USA	\$109 million
2009	Bushfire resulted in multiple fatalities and property damage	Australia	\$379 million
2009	Bushfire resulted in property damage	Australia	\$50 million
2010	Pipeline explosion with multiple fatalities and property damage	USA	\$650 million
2010	Natural gas pipeline explosion with multiple fatalities	USA	\$27 million
2012	A natural gas explosion resulting in multiple injuries and property damage	USA	Pending
2012	Downed power line caused electrocution resulting in fatality	USA	\$60 million
2013	Tree collapsed causing a fatality and multiple injuries	USA	Pending
2013	Gas explosion resulted in fatality and multiple injuries	USA	Pending
2013	Multiple fatalities as a result of electrocution	USA	Pending
2013	Alleged negligence during maintenance resulting in serious injuries	USA	\$22 million
2014	Gas explosion at residential building resulted in multiple fatalities and injuries.	USA	\$153 million <sup>2,3</sup>
2014	Contamination of drinking water	USA	Pending
2014	Home explosion resulted in fatality and multiple injuries	USA	Pending
2014	Alleged negligence resulted in apartment explosion	USA	Pending
2015	Wildfire	USA	\$750 million <sup>4</sup>
2015	Gas leak caused explosion at residence resulting in third party property damage and several injuries	USA	Pending
2015	Natural gas leak resulted in alleged illnesses and mandatory evacuation of a few thousand families	USA	\$717 million <sup>4</sup>
2016	Gas build up in apartment basement lead to explosion and fatalities	USA	Pending
2016	Dam/Reservoir spillway release alleged to contribute to the flooding damage of hundreds of homes	USA	Pending

<sup>1</sup>Inclusive of 1st Party Property Damage <sup>2</sup>Civil Claims Pending <sup>3</sup>Inclusive of 1st Party Property Damage and or Economic Loss

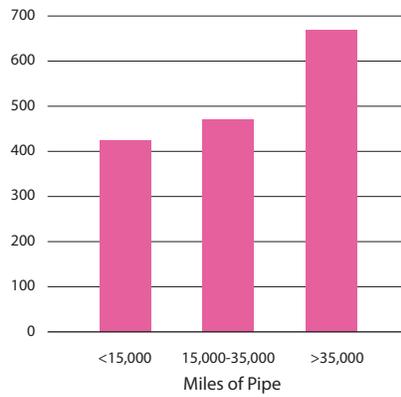
<sup>4</sup>Estimate

# Utilities Sector - Energy

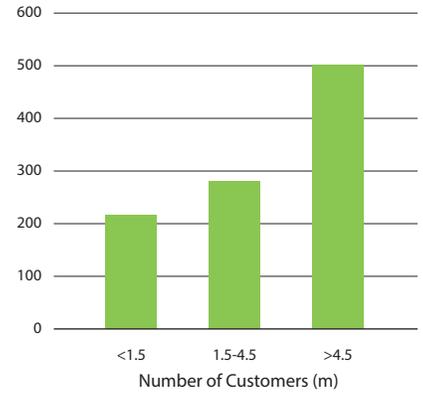
**Average Program Limits Purchased Based on Chubb Bermuda's 2016 Portfolio (\$M)**  
*(inclusive of Self-Insured Retentions)*

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## Gas



## Electric



## Combined Gas & Electric

