

SAN DIEGO GAS & ELECTRIC COMPANY

2016 PHASE II TCAP

Workpapers to the Prepared Written Testimony of

Jason Bonnett

Revised November 19, 2015

SAN DIEGO GAS & ELECTRIC
2016 Phase II TCAP

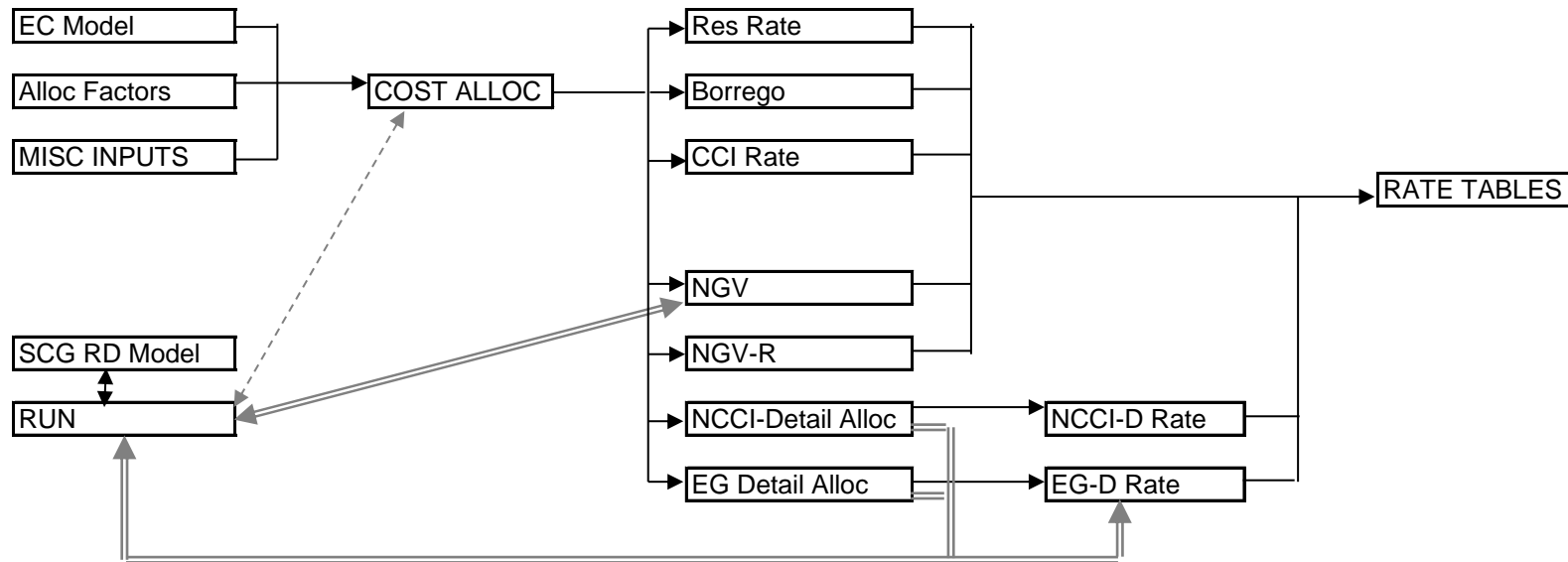
Section 1
Rate Design Model

Workpapers to the Prepared Written Testimony of
Jason Bonnett

Gas Transportation Rates and Revenues
San Diego Gas & Electric
2016 PHASE II TRIENNIAL COST ALLOCATION PROCEEDING

	Worksheet Tab	Purpose
1	Table of Contents	Table of Contents
2	Flowchart	Rate Design Model Flowchart
3	Rate Tables	Proposed rates & revenue compared to Current Rates & Revenue
4	Revenue Check	Verifies that revenue requirements are properly recovered in rates
5	Cost Alloc	Allocates costs to customer classes
6	AB32 Admin Fees	Allocates costs of AB32 Admin Fees
7	Alloc Factors	Factors used to allocate costs to classes, primarily demand forecast
8	CA Model	Results of base margin cost allocation model
9	Misc Input	Miscellaneous inputs, such as cost of gas
10	Res Rate	Calculation of Residential rates
11	Borrego	Data used in calculation of Borrego Springs Surcharge Rate
12	CCI Rates	Calculation of Core C&I rates
13	NGV Rates	Calculation of NGV rate
14	NGV-R Rate	Calculation of NGV Residential rate
15	NCCI-D Rates	Calculation of Noncore C&I rate for Distribution level service
16	EG-D Rates	Calculation of Electric Generation rate for Distribution level service
17	SDFFD	Calculation of San Diego Franchise Fee Differential
18	Current Cost Alloc	Results of Current Cost Allocation
19	Reconcile	Reconciles revenue requirement and rates between Proposal and Current
20	Res Bill	Compare residential bill under current rates and proposed rates
21	RUN	Data that transfers between SCG and SDGE Rate Design Models

SDG&E - FLOWCHART of Rate Design model
2016 TCAP Phase II Rates



KEY:

- ==== Data exchanged with SCG for Sempra Wide NGV, EG-D and TLS rates.
- - - - Data exchanged with SCG for System Integration and FAR revenue.

Tabs not shown in flowchart

- Table of Contents
- Flowchart
- Revenue Check
- SDFFD
- Current Cost Alloc
- Reconcile
- Res Bill

TABLE 1
Natural Gas Transportation Rate Revenues
San Diego Gas & Electric
2016 TCAP Phase II Rates

2016 TCAP Phase II Application

	At Present Rates			At Proposed Rates			Changes		
	Jan-1-15	Average	Jan-1-15	Jan-1-17	Average	Jan-1-17	Revenues \$000's	Rates \$/therm	Rate change %
	Volumes mtherms A	Rate \$/therm B	Revenues \$000's C	Volumes mtherms D	Rate \$/therm E	Revenues \$000's F			
CORE									
Residential	321,869	\$0.92062	\$296,319	319,982	\$0.74199	\$237,425	(\$58,894)	(\$0.17862)	-19.4%
Commercial & Industrial	177,578	\$0.34893	\$61,962	182,660	\$0.16496	\$30,132	(\$31,831)	(\$0.18397)	-52.7%
NGV - Pre SempraWide	11,417	\$0.24253	\$2,769	18,501	\$0.05728	\$1,060	(\$1,709)	(\$0.18524)	-76.4%
SempraWide Adjustment	11,417	(\$0.08949)	(\$1,022)	18,501	\$0.06109	\$1,130	\$2,152	\$0.15057	-168.3%
NGV Post SempraWide	11,417	\$0.15304	\$1,747	18,501	\$0.11837	\$2,190	\$443	(\$0.03467)	-22.7%
Total CORE	510,864	\$0.70474	\$360,028	521,144	\$0.51761	\$269,747	(\$90,282)	(\$0.18714)	-26.6%
NONCORE COMMERCIAL & INDUSTRIAL									
Distribution Level Service	25,161	\$0.05420	\$1,364	27,807	\$0.01663	\$462	(\$901)	(\$0.03757)	-69.3%
Transmission Level Service (2)	13,582	\$0.01901	\$258	17,168	\$0.01418	\$243	(\$15)	(\$0.00483)	-25.4%
Total Noncore C&I	38,743	\$0.04186	\$1,622	44,975	\$0.01570	\$706	(\$916)	(\$0.02617)	-62.5%
NONCORE ELECTRIC GENERATION									
Distribution Level Service									
Pre Sempra Wide	103,761	\$0.01729	\$1,794	95,807	\$0.00267	\$255	(\$1,539)	(\$0.01462)	-84.6%
Sempra Wide Adjustment	103,761	\$0.02947	\$3,058	95,807	\$0.03921	\$3,757	\$699	\$0.00975	33.1%
Distribution Level post SW	103,761	\$0.04676	\$4,852	95,807	\$0.04188	\$4,012	(\$839)	(\$0.00488)	-10.4%
Transmission Level Service (2)	577,118	\$0.01461	\$8,431	574,075	\$0.01310	\$7,521	(\$910)	(\$0.00151)	-10.3%
Total Electric Generation	680,879	\$0.01951	\$13,283	669,882	\$0.01722	\$11,534	(\$1,749)	(\$0.00229)	-11.7%
TOTAL NONCORE	719,622	\$0.02071	\$14,904	714,857	\$0.01712	\$12,239	(\$2,665)	(\$0.00359)	-17.3%
SYSTEM TOTAL	1,230,486	\$0.30470	\$374,933	1,236,000	\$0.22814	\$281,986	(\$92,947)	(\$0.07656)	-25.1%

- 1) These rates are for Natural Gas Transportation Service from "Citygate to Meter". The BTS rate is for service from Receipt Point to Citygate. BTS is a SoCalGas tariff and service is purchased from SoCalGas.
- 2) Average transmission level service rate is shown here, see Rate Table 6 for detail list of TLS rates.
- 3) All rates include Franchise Fees & Uncollectible charges

TABLE 2
Core Gas Transportation Rates
San Diego Gas & Electric
January, 2015 Rates

2016 TCAP Phase II Application

	At Present Rates			At Proposed Rates			Changes		
	Jan-1-15	Average	Jan-1-15	Jan-1-17	Average	Jan-1-17	Revenues	Rates	Rate
	Volumes mtherms A	Rate \$/therm B	Revenues \$000's C	Volumes mtherms D	Rate \$/therm E	Revenues \$000's F	Revenues \$000's G	\$/therm H	change % I
1 RESIDENTIAL RATES Schedule GR,GM									
2 Rates Excluding CSITMA & CAT									
3 Customer Charge \$/month	848,086	\$0.00	\$0	884,624	\$10.00	\$106,155	\$106,155	\$10.00	
4									
5 Baseline \$/therm	217,220	\$0.86716	\$188,364	215,947	\$0.33753	\$72,888	(\$115,476)	(\$0.52963)	-61.1%
6 Non-Baseline \$/therm	104,649	\$1.05344	\$110,241	104,035	\$0.59753	\$62,164	(\$48,077)	(\$0.45591)	-43.3%
7 Average Rate \$/therm	321,869	\$0.92772	\$298,605	319,982	\$0.42206	\$241,207	(\$57,398)	(\$0.50566)	-54.5%
8 NBL/BL Ratio									
9 NBL/BL rate ratio		1.14			1.35				
10 NBL- BL rate difference \$/th					\$0.26000				
11									
12 Rates Including CSITMA, Excluding CAT									
13 CSITMA Adder to Volumetric Rate	256,575	\$0.00407	\$1,045	258,048	\$0.00112	\$288	(\$758)	(\$0.00296)	-72.6%
14 Baseline \$/therm		\$0.87123			\$0.33864			(\$0.53259)	-61.1%
15 Non-Baseline \$/therm		\$1.05751			\$0.59864			(\$0.45887)	-43.4%
16 Average NonCARE Rate \$/therm		\$0.93180			\$0.42318			(\$0.50862)	-54.6%
17									
18 Sub Meter Credit Schedule GS,GT									
19 GS Unit Discount \$/day	6,004	(\$0.29392)	(\$644)	5,870	(\$0.38268)	(\$820)	(\$176)	(\$0.08877)	30.2%
20 GT Unit Discount \$/day	27,745	(\$0.36460)	(\$3,692)	27,189	(\$0.40932)	(\$4,062)	(\$370)	(\$0.04471)	12.3%
21									
22 Schedule GL-1									
23 LNG Facility Charge, domestic use \$/m	289	\$14.79	\$51	321	\$14.79	\$57		\$0.00000	0.0%
24 LNG Facility Charge, non-domestic \$/mth/mbtu		\$0.05480			\$0.05480			\$0.00000	0.0%
25 LNG Volumetric Surcharge \$/th	100	\$0.16571	\$16	74	\$0.16571	\$12		\$0.00000	0.0%
26			\$68			\$69			
27 Volumetric Rates Including CSITMA & CAT									
28 CAT Adder to Volumetric Rate	247	\$0.00000	\$0	2,764	\$0.00000	\$0	\$0	\$0.00000	
29 Baseline \$/therm		\$0.87123			\$0.33864			(\$0.53259)	-61.1%
30 Non-Baseline \$/therm		\$1.05751			\$0.59864			(\$0.45887)	-43.4%
31 Average Rate \$/therm		\$0.93180			\$0.42318			(\$0.50862)	-54.6%
32									
33 Other Adjustments :									
34 Employee Discount			(\$412)			(\$349)	\$63		
35 SDDFD			\$1,349			\$1,092	(\$257)		
36									
37 Credit for CSITMA Exempt Cutomers:		(\$0.00407)			(\$0.00112)			\$0.00296	-72.6%
38									
39									
40 Total Residential	321,869	\$0.92062	\$296,319	319,982	\$0.74199	\$237,425	(\$58,894)	(\$0.17862)	-19.4%

See footnotes Table 1

TABLE 3
Natural Gas Transportation Rate Revenues
San Diego Gas & Electric
2016 TCAP Phase II Rates
2016 TCAP Phase II Application

	At Present Rates			At Proposed Rates			Changes		
	Jan-1-15	Average	Jan-1-15	Jan-1-17	Average	Jan-1-17	Revenues	Rates	Rate
	Volumes mtherms A	Rate \$/therm B	Revenues \$000's C	Volumes mtherms D	Rate \$/therm E	Revenues \$000's F	Revenues \$000's G	Rates \$/therm H	change % I
1 Other Core Rates \$/therm									
2 Schedule GPC - Procurement Price		\$0.42840			\$0.40492			(\$0.02348)	-5.5%
3									
4 CORE COMMERCIAL & INDUSTRIAL RATES Schedule GN-3									
5 Customer Charge \$/month	29,865	\$10.00	\$3,584	30,265	\$10.00	\$3,632	\$48	\$0.00000	0.0%
6									
7 Rates Excluding CSITMA & CAT									
8 Tier 1 = 0 to 1,000 therms/month	79,475	\$0.41947	\$33,337	82,658	\$0.21448	\$17,729	(\$15,609)	(\$0.20499)	-48.9%
9 Tier 2 = 1,001 to 21,000 therms/month	82,322	\$0.25230	\$20,770	84,219	\$0.08958	\$7,544	(\$13,225)	(\$0.16272)	-64.5%
10 Tier 3 = over 21,000 therms/month	15,781	\$0.20507	\$3,236	15,783	\$0.05429	\$857	(\$2,379)	(\$0.15078)	-73.5%
11									
12 Rates Including CSITMA, Excluding CAT									
13 CSITMA Adder to Volumetric Rate	169,353	\$0.00407	\$690	182,649	\$0.00112	\$204	(\$486)	(\$0.00296)	-72.6%
14 Tier 1 = 0 to 1,000 therms/month		\$0.42354			\$0.21560			(\$0.20795)	-49.1%
15 Tier 2 = 1,001 to 21,000 therms/month		\$0.25637			\$0.09069			(\$0.16568)	-64.6%
16 Tier 3 = over 21,000 therms/month		\$0.20915			\$0.05541			(\$0.15374)	-73.5%
17									
18 Rates Including CSITMA & CAT									
19 CAT Adder to Volumetric Rate	23,606	\$0.00000	\$0	35,463	\$0.00000	\$0	\$0	\$0.00000	
20 Tier 1 = 0 to 1,000 therms/month		\$0.42354			\$0.21560			(\$0.20795)	-49.1%
21 Tier 2 = 1,001 to 21,000 therms/month		\$0.25637			\$0.09069			(\$0.16568)	-64.6%
22 Tier 3 = over 21,000 therms/month		\$0.20915			\$0.05541			(\$0.15374)	-73.5%
23									
24 Other Adjustments :									
25 Adjustment for SDDFD			\$346			\$167	(\$179)		
26 Credit for CSITMA Exempt Customers:		(\$0.00407)			(\$0.00112)			\$0.00296	-72.6%
27									
28 Total Core C&I	177,578	\$0.34893	\$61,962	182,660	\$0.16496	\$30,132	(\$31,831)	(\$0.18397)	-52.7%

1) CSITMA - Tariff rate includes CSITMA, exempt customers (including CARE participants and Constitutionally Exempt) receive Credit for CSITMA. CARE participants receive 20% CARE discount (Tariff rate less Credit for CSITMA Exempt Customers)*20%

See footnotes Table 1

TABLE 4
Other Core Gas Transportation Rates
San Diego Gas & Electric
2016 TCAP Phase II Rates

2016 TCAP Phase II Application

	At Present Rates			At Proposed Rates			Changes		
	Jan-1-15	Average	Jan-1-15	Jan-1-17	Average	Jan-1-17	Revenues	Rates	Rate
	Volumes mtherms A	Rate \$/therm B	Revenues \$000's C	Volumes mtherms D	Rate \$/therm E	Revenues \$000's F	\$000's G	\$/therm H	% I
1 NATURAL GAS VEHICLE RATES G-N	Sempra-Wide NGV Rates			Sempra-Wide NGV Rates					
2 Customer Charge									
3 P1 \$/month	24	\$13.00	\$4	28	\$13.00	\$4	\$1	\$0.00	0.0%
4 P2A \$/month	10	\$65.00	\$8	10	\$65.00	\$8	\$0	\$0.00	0.0%
5									
6 Uncompressed Rate Excl CSITMA & C	11,417	\$0.12819	\$1,464	18,501	\$0.07514	\$1,390	(\$73)	(\$0.05305)	-41.4%
7 Compressor Adder \$/therm Excludes C	209	\$1.05591	\$220	744	\$1.03712	\$772	\$552	(\$0.01879)	-1.8%
8 Combined transport & compressor adder \$/th		\$1.18410			\$1.11226			(\$0.07184)	-6.1%
9									
10 Volumetric Rates Includes CSITMA, Excludes CAT									
11 CSITMA Adder to Volumetric Rate	11,399	\$0.00407	\$46	11,409	\$0.00112	\$13	(\$34)	(\$0.00296)	-72.6%
12 Uncompressed Rate \$/therm		\$0.13227			\$0.07626			(\$0.05601)	-42.3%
13 Combined transport & compressor adder \$/th		\$1.18818			\$1.11338			(\$0.07480)	-6.3%
14									
15 Volumetric Rates Includes CSITMA & CAT									
16 CAT Adder to Volumetric Rate		\$0.00000			\$0.00000				
17 Uncompressed Rate \$/therm		\$0.13227			\$0.07626		\$0	(\$0.05601)	-42.3%
18 Combined transport & compressor adder \$/th		\$1.18818			\$1.11338			(\$0.07480)	-6.3%
19 Other Adjustments :									
20 Adjustment for SDDFD			\$6			\$3	(\$3)		
21 Credit for CSITMA Exempt Cutomers \$/th		(\$0.00407)			(\$0.00112)			\$0.00296	-72.6%
22									
23									
24 Total NGV	11,417	\$0.15304	\$1,747	18,501	\$0.11837	\$2,190	\$443	(\$0.03467)	-22.7%
25									
26 RESIDENTIAL NATURAL GAS VEHICLES (optional rate)									
27 Customer Charge	848	\$5.00	\$51	885	\$5.00	\$53	\$2	\$0.00	0.0%
28 Uncompressed Rate w/o CSITMA & C	929	\$0.28739	\$267	969	\$0.21144	\$205	(\$62)	(\$0.07595)	-26.4%
29	929	\$0.34215	\$318	969	\$0.26620	\$258	(\$60)	(\$0.07595)	-22.2%
30									
31 Volumetric Rates Including CSITMA , Excluding CAT									
32 CSITMA Adder to Volumetric Rate		\$0.00407			\$0.00112			(\$0.00296)	-72.6%
33 Uncompressed Rate \$/therm		\$0.29146			\$0.21256			(\$0.07891)	-27.1%
34									
35 Volumetric Rates Includes CSITMA & CAT									
36 CAT Adder to Volumetric Rate	0	\$0.00000	\$0	0	\$0.00000	\$0	\$0	\$0.00000	
37 Uncompressed Rate \$/therm		\$0.29146			\$0.21256		\$0	(\$0.07891)	-27.1%
38									
39 Other Adjustments :									
40 Adjustment for SDDFD			\$0			\$0	\$0		
41 Credit for CSITMA Exempt Cutomers \$/th		(\$0.00407)			(\$0.00112)			\$0.00296	-72.6%
42									
43 Total Res NGV	929	\$0.34215	\$318	969	\$0.26620	\$258	(\$60)	(\$0.07595)	-22.2%

1) CSITMA - Tariff rate includes CSITMA, exempt customers (including CARE participants and Constitutionally Exempt) receive Credit for CSITMA.

TABLE 5
NonCore Gas Transportation Rates
San Diego Gas & Electric
2016 TCAP Phase II Rates

2016 TCAP Phase II Application

	At Present Rates			At Proposed Rates			Changes		
	Jan-1-15	Average	Jan-1-15	Jan-1-17	Average	Jan-1-17	Revenues	Rates	Rate
	Volumes	Rate	Revenues	Volumes	Rate	Revenues			
mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%	
	A	B	C	D	E	F	G	H	I
NonCore Commercial & Industrial Distribution Level									
Customer Charges \$/month	54	\$350.00	\$228	42	\$350.00	\$177	(\$51)	\$0.00	0.0%
Volumetric Charges Incl CARB Fee, Excl CSITMA	25,161	\$0.04161	\$1,047	27,807	\$0.00925	\$257	(\$790)	(\$0.03236)	-77.8%
CSITMA Adder to Volumetric Rate	21,818	\$0.00407	\$89	25,154	\$0.00112	\$28	(\$61)	(\$0.00296)	-72.6%
Volumetric Charges Incl CARB Fee, Incl CSITMA									
Volumetric Rates \$/therm		\$0.04568			\$0.01036			(\$0.03532)	-77.3%
Other Adjustments :									
SDDFD									
Credit for CSITMA Exempt Cutomers \$/th		(\$0.00407)			(\$0.00112)			\$0.00296	-72.6%
Credit for CARB Fee Exempt Customers \$/th		(\$0.00041)			\$0.00004				
NCCI-Distribution Total	25,161	\$0.05420	\$1,364	27,807	\$0.01663	\$462	(\$901)	(\$0.03757)	-69.3%
NCCI-Transmission Total (1)	13,582	\$0.01901	\$258	17,168	\$0.01418	\$243	(\$15)	(\$0.00483)	-25.4%
Total NonCore C&I	38,743	\$0.04186	\$1,622	44,975	\$0.01570	\$706	(\$916)	(\$0.02617)	-62.5%
ELECTRIC GENERATION									
Small EG Distribution Level Service (a Sempra-Wide rate) Excludes CARB Fee & CSITMA									
Customer Charge, \$/month	40	\$50.00	\$24	46	\$50.00	\$28	\$4	\$0.00	0.0%
Volumetric Rate \$/therm	16,347	\$0.10438	\$1,706	19,210	\$0.08460	\$1,625	(\$81)	(\$0.02)	-18.9%
Small EG Distribution Level Service	16,347	\$0.10584	\$1,730	19,210	\$0.08604	\$1,653	(\$77)	(\$0.01980)	-18.7%
Large EG Distribution Level Service (a Sempra-Wide rate) Excludes CARB Fee, CSITMA									
Customer Charge, \$/month		\$0.00			\$0.00			\$0.00	
Volumetric Rate (Incl ITCS) \$/th	87,414	\$0.03526	\$3,082	76,596	\$0.03085	\$2,363	(\$719)	(\$0.00)	-12.5%
EG Distribution excl CARB Fee, CSITMA	103,761	\$0.04638	\$4,812	95,807	\$0.04192	\$4,016	(\$796)	(\$0.00)	-9.6%
Volumetric Rates Including CARB Fee, Excluding CSITMA:									
Carb Fee Cost Adder - Small	14,770	\$0.00041	\$6	17,633	(\$0.00004)	(\$1)	(\$7)	(\$0.00045)	
CARB Fee Cost Adder - Large	81,853	\$0.00041	\$33	71,035	(\$0.00004)	(\$3)			
EG-Distribution Tier 1 Incl CARB fee, Excl CSITMA		\$0.10478			\$0.08456			(\$0.02022)	-19.3%
EG-Distribution Tier 2 Incl CARB Fee, Excl CSITMA		\$0.03567			\$0.03081			(\$0.00486)	-13.6%
Total - EG Distribution Level	103,761	\$0.04676	\$4,852	95,807	\$0.04188	\$4,012	(\$839)	(\$0.00488)	-10.4%
Credit for CARB Fee Exempt Customers \$/th		(\$0.00041)			\$0.00004				
EG Transmission Level Service Excl CA	471,084	\$0.01453	\$6,847	471,084	\$0.01311	\$6,175			
EG Transmission Level Service Incl CA	106,034	\$0.01494	\$1,584	102,991	\$0.01307	\$1,346	(\$238)	(\$0.00)	-12.5%
EG Transmission Level Service - Average	577,118	\$0.01461	\$8,431	574,075	\$0.01310	\$7,521			
TOTAL ELECTRIC GENERATION	680,879	\$0.01951	\$13,283	669,882	\$0.01722	\$11,534	(\$1,749)	(\$0.00229)	-11.7%

1) CSITMA - Tariff rate includes CSITMA, exempt customers (including CARE participants and Constitutionally Exempt) receive Credit for CSITMA.

Schedule EG Tariff Rate excludes CSITMA, since EG customers are exempt.

2) EFMA - GTNC and EG Tariff rates includes EFMA. Those EG and GTNC customers that are exempt will receive EFMA credit.

See footnotes Table 1

TABLE 6
Transmission Level Service Gas Transportation Rates
San Diego Gas & Electric
2016 TCAP Phase II Rates

2016 TCAP Phase II Application

	At Present Rates			At Proposed Rates			Changes		
	Jan-1-15	Average	Jan-1-15	Jan-1-17	Average	Jan-1-17	Revenues	Rates	Rate
	Volumes	Rate	Revenues	Volumes	Rate	Revenues			
mtherms	\$/therm	\$000's	mtherms	\$/therm	\$000's	\$000's	\$/therm	%	
	A	B	C	D	E	F	G	H	I
1 Transmission Level Service Rate Excluding CSITMA & CARB Fee									
2 Reservation Service Option (RS):									
3 Daily Reservation rate \$/th/day		\$0.00600			\$0.00655		\$0	\$0.00055	9.2%
4 Usage Charge for RS \$/th		\$0.00653			\$0.00328		\$0	(\$0.00325)	-49.7%
5									
6 Class Average Volumetric Rate (CA)									
7 Volumetric Rate \$/th		\$0.00808			\$0.00991		\$0	\$0.00183	22.6%
8 Usage Charge for CA \$/th		\$0.00653			\$0.00328		\$0	(\$0.00325)	-49.7%
9 Class Average Volumetric Rate CA \$/th		\$0.01461			\$0.01319		\$0	(\$0.00142)	-9.7%
10									
11 115% CA (for NonBypass Volumetric NV) \$/th		\$0.01681			\$0.01517		\$0	(\$0.00164)	-9.7%
12 135% CA (for Bypass Volumetric BV) \$/th		\$0.01973			\$0.01781		\$0	(\$0.00192)	-9.7%
13									
14 Average Transmission Level Service	590,700	\$0.01453	\$8,585	591,243	\$0.01311	\$7,750	(\$835)	(\$0.00143)	-9.8%
15									
16 C&I Rate Including CSITMA & CARB Fee									
17 CSITMA Adder to Usage Rate \$/th	13,582	\$0.00407	\$55	17,168	\$0.00112	\$19	(\$36)	(\$0.00296)	-72.6%
18 EFMA Cost Adder	119,616	\$0.00041	\$49	120,159	(\$0.00004)	(\$5)		(\$0.00045)	
19 Reservation Service Option (RS):									
20 Daily Reservation rate \$/th/day		\$0.00600			\$0.00655		\$0	\$0.00055	9.2%
21 Usage Charge for RS \$/th		\$0.01101			\$0.00436		\$0	(\$0.00666)	-60.4%
22									
23 Class Average Volumetric Rate (CA)									
24 Volumetric Rate \$/th		\$0.00808			\$0.00991		\$0	\$0.00183	22.6%
25 Usage Charge for CA \$/th		\$0.01101			\$0.00436		\$0	(\$0.00666)	-60.4%
26 Class Average Volumetric Rate CA \$/th		\$0.01909			\$0.01426		\$0	(\$0.00483)	-25.3%
27									
28 115% CA (for NonBypass Volumetric NV) \$/th		\$0.02129			\$0.01624		\$0	(\$0.00504)	-23.7%
29 135% CA (for Bypass Volumetric BV) \$/th		\$0.02421			\$0.01888		\$0	(\$0.00533)	-22.0%
30									
31 Other Adjustments:									
32 Credit for CSITMA Exempt Customers \$/th		(\$0.00407)			(\$0.00112)			\$0.00296	-72.6%
33 CARB Fee Credit for Exempt Customers \$/th		(\$0.00041)			\$0.00004			\$0.00045	-110.1%
34									
35 EG Rate Including CARB Fee, excluding CSITMA:									
36 CARB Fee Cost Adder		\$0.00041			(\$0.00004)			(\$0.00045)	
37 Reservation Service Option (RS):									
38 Daily Reservation rate \$/th/day		\$0.00600			\$0.00655		\$0	\$0.00055	9.2%
39 Usage Charge for RS \$/th		\$0.00694			\$0.00324		\$0	(\$0.00370)	-53.3%
40									
41 Class Average Volumetric Rate (CA)									
42 Volumetric Rate \$/th		\$0.00808			\$0.00991		\$0	\$0.00183	22.6%
43 Usage Charge for CA \$/th		\$0.00694			\$0.00324		\$0	(\$0.00370)	-53.3%
44 Class Average Volumetric Rate CA \$/th		\$0.01502			\$0.01315		\$0	(\$0.00187)	-12.5%
45									
46 115% CA (for NonBypass Volumetric NV) \$/th		\$0.01721			\$0.01513		\$0	(\$0.00208)	-12.1%
47 135% CA (for Bypass Volumetric BV) \$/th		\$0.02013			\$0.01777		\$0	(\$0.00237)	-11.8%
48									
49 Other Adjustments:									
50 CARB Fee Credit for Exempt Customers \$/th		(\$0.00041)			\$0.00004			\$0.00045	-110.1%
51									
52 Average Transmission Level Service	590,700	\$0.01471	\$8,689	591,243	\$0.01313	\$7,765	(\$924)	(\$0.00158)	-10.7%

See footnotes Table 1

Verify TLS Revenue:

NCCI-T	13,582	\$0.01901	\$258	17,168	\$0.01418	\$243	(15)	(\$0.00483)	(\$0)
EG-T	577,118	\$0.01461	\$8,431	574,075	\$0.01310	\$7,521	(910)	(\$0.00151)	(\$0)
	590,700	\$0.01471	\$8,689	591,243	\$0.01313	\$7,765	(924)	(\$0.00158)	(\$0)
difference	0	\$0.00000	\$0	0	\$0.00000	\$0	0	\$0.00000	

Revenue Check of Base Margin, Revenue Requirement and Rates
2016 TCAP Phase II Rates

Base Margin in Transportation rates		\$000's	
Authorized Base Margin in 2008GRC		\$286,919	
2013 attrition w/FFU		\$7,603	
2014 attrition w/FFU		\$7,982	
2015 attrition w/ffu		\$8,201	
Rounding Adjustment		\$0	
AMI Adjustment		\$0	
Cost of Capital Adjustment		(\$4,261)	
Full Authorized Margin		\$306,444	
Less AB32 fees different allocation:			
AB32 Fees	(\$539)	102.33%	(\$552) Cost Alloc
Base Margin in Transportation Rates w/oSI; w/FFU \$000		\$305,893	<i>Cost Alloc = \$305,893</i> \$0

Reconcile Base Margin with Revenue Requirement

Base Margin in 2007 Rates under 2009BCAP rules w/FFU		\$305,893	
System Integration:			
Less Backbone Transmission Costs		(\$38,229)	Cost Alloc
Less Local Transmission Costs		\$0	Cost Alloc
Plus Backbone Transmission Costs w/SI		\$0	
Plus Local Transmission Costs w/SI		\$8,278	Cost Alloc
Plus Unbundled BBT amount w/FFU		\$24,100	
System Integration		(\$5,851)	
less Unbundled BBT amount w/FFU		(\$24,100)	
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU		\$275,942	
Other Operating Costs and Revenues		\$21,454	Cost Alloc
Regulatory Accounts adjustment \$000		(\$30,337)	Cost Alloc
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr		\$267,059	<i>cost allocation total = \$267,059</i> \$0
plus change due to TLS (NCCI/EG/WS/DGN)		\$10,040	
plus SW Adjustments		\$4,887	
Final Revenue Requirement in Rate Tables w/oBTS Revenue		\$281,986	<i>Rate Table Total = \$281,986</i> \$0

Summary of Rate Table 1, Revenues

	A (w/o FAR, RG,SW)	B=SW Adj	C=A+B (w/o FAR, RG)	D=RegGap	E=C+D (w/o FAR)	F=FAR	Total G=E+F
Core	\$268,617	\$1,130	\$269,747		\$269,747		\$269,747
NCCI-D	\$462		\$462		\$462		\$462
NCCI-T	(\$43)		(\$43)	\$287	\$244		\$244
	\$419	\$0	\$419	\$287	\$707		\$707
EG-D	\$255	\$3,757	\$4,012		\$4,012		\$4,012
EG-T	(\$2,232)		(\$2,232)	\$9,753	\$7,521		\$7,521
	(\$1,977)	\$3,757	\$1,780	\$9,753	\$11,533		\$11,533
Transport Rev Req \$000/yr	\$267,059	\$4,887	\$271,946	\$10,040	\$281,986	\$0	\$281,986
<i>Table 1 Total Revenue (Incl SI, FAR, TLS, SW Adj)</i>	<u>\$267,059</u>				<u>\$281,986</u>		<u>\$281,986</u>
	\$0				\$0		\$0

A = Transport Rev Req w/ FFU, SI; w/o FAR revenue, Reg GAP, SW
 B = Sempra Wide Adjustments
 C = Transport Rev Req w/ FFU, SI, SW; w/o FAR revenue, Reg GAP
 D = Regulatory Gap (revenue from SDGE's NCCI-T and EG-T customers)
 E = Transport Rev Req w/ FFU, SI, SW, Reg Gap; w/o FAR revenue
 F = Estimated FAR Charge paid by ALL SDGE's customers
 G = Total System Transportation Revenue per Table 1 includes SI, Reg Gap, SW, FAR revenue

Summary of Rate tables 2 thru 5

Table 2 - Core Res & Core C&I:			
Residential Service \$000	\$237,425		
Core C&I Service \$000	\$30,132		
Table 3 - other Core service:			
NGV \$000	\$2,190		
CORE	\$269,747		
Table 4 - NonCore Distribution Level:			
C&I \$000	\$462		
Sw-EG \$000	\$4,012		
NonCore Distribution	\$4,475		
Table 5 - Local Transmission Level			
System Total Rev Req w/SW adjustments \$000	\$281,986	Rev Req w/o BTS =	\$281,986 \$0
Est FAR Revenues to SDGE - \$000	\$0		
System Total Rev Req w/ SW adjustments \$000	\$281,986	Rev Req w/BTS =	\$281,986 \$0

SDG&E Cost Alloc
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	Res	NGV	Core C&I	Total Core
Embedded Costs:				
Customer Related Costs	\$171,945	\$138	\$11,309	\$183,392
Medium Pressure Distribution Costs	\$55,487	\$382	\$16,750	\$72,618
High Pressure Distribution Costs	\$5,567	\$99	\$1,712	\$7,378
Backbone Transmission Costs	\$10,601	\$554	\$5,677	\$16,833
Local Transmission Costs	\$0	\$0	\$0	\$0
Storage - Borrego	\$0	\$0	\$0	\$0
Core Seasonal Storage	\$0	\$0	\$0	\$0
Storage - Load Balancing	\$0	\$0	\$0	\$0
NGV	\$0	\$494	\$0	\$494
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU	\$243,600	\$1,667	\$35,449	\$280,716
Less Backbone Transmission Costs	(\$10,601)	(\$554)	(\$5,677)	(\$16,833)
Less Local Transmission Costs	\$0	\$0	\$0	\$0
Plus Local Transmission Costs w/SI,FFU	\$3,058	\$95	\$1,210	\$4,363
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU	\$236,057	\$1,209	\$30,981	\$268,246

Other Operating Costs and Revenues	Non-ECPT?	Add FFU Y or N?	Amount to Allocate (w/o F&U)				
SCG Transport excl Core Storge & Load Balance \$000		Y	\$6,378	\$1,690	\$98	\$965	\$2,752
SCG Core Seasonal Storage		Y	\$7,481	\$6,067	\$91	\$1,497	\$7,656
SCG Load Balancing Allocated to ALL SDGE \$000		Y	\$3,610	\$957	\$55	\$546	\$1,558
n/a							
LUAUF		Y	\$2,697	\$1,300	\$75	\$742	\$2,117
Company Use Gas: Other		Y	\$259	\$69	\$4	\$39	\$112
AMI rev req incl FF&U AL 1693-G	Y	Y	\$0	\$0	\$0	\$0	\$0
AB32 Fees (subtracted from base margin and allocated here)		Y	\$539	\$233	\$13	\$133	\$379
Subtotal Other Operating Costs and Revenues			\$20,965	\$10,315	\$337	\$3,922	\$14,574

SDG&E Cost Alloc
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total
Embedded Costs:						
Customer Related Costs	\$428	\$305	\$118	\$423	\$851	\$184,243
Medium Pressure Distribution Costs	\$1,095	\$740	\$430	\$1,170	\$2,265	\$74,884
High Pressure Distribution Costs	\$151	\$116	\$397	\$513	\$665	\$8,042
Backbone Transmission Costs	\$1,346	\$637	\$19,413	\$20,050	\$21,396	\$38,229
Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0
Storage - Borrego	\$0	\$0	\$0	\$0	\$0	\$0
Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$0
Storage - Load Balancing	\$0	\$0	\$0	\$0	\$0	\$0
NGV	\$0	\$0	\$0	\$0	\$0	\$494
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU	\$3,021	\$1,797	\$20,359	\$22,156	\$25,177	\$305,893
Less Backbone Transmission Costs	(\$1,346)	(\$637)	(\$19,413)	(\$20,050)	(\$21,396)	(\$38,229)
Less Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0
Plus Local Transmission Costs w/SI,FFU	\$236	\$104	\$3,575	\$3,679	\$3,915	\$8,278
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU	\$1,910	\$1,265	\$4,521	\$5,786	\$7,696	\$275,942

Other Operating Costs and Revenues							F&U Amount \$000	Total Allocated \$000
SCG Transport excl Core Storge & Load Balance \$000	\$237	\$112	\$3,425	\$3,537	\$3,775	\$6,527	\$149	\$6,378
SCG Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$7,656	\$175	\$7,481
SCG Load Balancing Allocated to ALL SDGE \$000	\$134	\$64	\$1,939	\$2,002	\$2,137	\$3,695	\$84	\$3,610
n/a								
LUAUF	\$40	\$19	\$583	\$602	\$643	\$2,760	\$63	\$2,697
Company Use Gas: Other	\$10	\$5	\$139	\$144	\$153	\$265	\$6	\$259
AMI rev req incl FF&U AL 1693-G	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AB32 Fees (subtracted from base margin and allocated here)	\$33	\$10	\$130	\$140	\$172	\$552	\$13	\$539
Subtotal Other Operating Costs and Revenues	\$455	\$209	\$6,216	\$6,426	\$6,880	\$21,454	\$489	\$20,965

SDG&E Cost Alloc
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	Source	Allocation	Allocation %						
			Total System	Res	NGV	Core C&I	Total Core	NCCI	EG <3 mmth/yr
Embedded Costs:									
Customer Related Costs	EC Model	0							
Medium Pressure Distribution Costs	EC Model	0							
High Pressure Distribution Costs	EC Model	0							
Backbone Transmission Costs	EC Model	0							
Local Transmission Costs	EC Model	0							
Storage - Borrego	EC Model	0							
Core Seasonal Storage	EC Model	0							
Storage - Load Balancing	EC Model	0							
NGV	EC Model	0							
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU									
Less Backbone Transmission Costs									
Less Local Transmission Costs									
Plus Local Transmission Costs w/SI,FFU	SCG/ SI & FAR								
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU									
Other Operating Costs and Revenues									
SCG Transport excl Core Storge & Load Balance \$000	SCG RD Model/RUN	ECPT	100.0%	25.9%	1.5%	14.8%	42.2%	3.6%	1.7%
SCG Core Seasonal Storage	SCG RD Model/RUN	% CYPD MP Res & CCI	100.0%	79.2%	1.2%	19.6%	100.0%	0.0%	0.0%
SCG Load Balancing Allocated to ALL SDGE \$000	SCG RD Model/RUN	ECPT	100.0%	25.9%	1.5%	14.8%	42.2%	3.6%	1.7%
n/a									
LUAUF	Misc Inputs	Method #3 - 59% core @ ECPT / 41%	100.0%	47.1%	2.7%	26.9%	76.7%	1.5%	0.7%
Company Use Gas: Other	Misc Inputs	ECPT	100.0%	25.9%	1.5%	14.8%	42.2%	3.6%	1.7%
AMI rev req incl FF&U AL 1693-G	Misc Inputs, AL 1693-G	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
AB32 Fees (subtracted from base margin and allocated here)		ECPT AB32 Fee Non-Exempt	100.0%	42.2%	2.4%	24.1%	68.8%	5.9%	1.7%
Subtotal Other Operating Costs and Revenues									

SDG&E Cost Alloc
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	EG>=3 mmth/yr	Total EG	Total NonCore
Embedded Costs:			
Customer Related Costs			
Medium Pressure Distribution Costs			
High Pressure Distribution Costs			
Backbone Transmission Costs			
Local Transmission Costs			
Storage - Borrego			
Core Seasonal Storage			
Storage - Load Balancing			
NGV			
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU			
Less Backbone Transmission Costs			
Less Local Transmission Costs			
Plus Local Transmission Costs w/SI,FFU			
<hr/>			
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU			
<hr/>			
Other Operating Costs and Revenues			
SCG Transport excl Core Storge & Load Balance \$000	52.5%	0.0%	57.8%
SCG Core Seasonal Storage	0.0%	0.0%	0.0%
SCG Load Balancing Allocated to ALL SDGE \$000	52.5%	0.0%	57.8%
n/a			
LUAUF	21.1%	21.8%	23.3%
Company Use Gas: Other	52.5%	0.0%	57.8%
AMI rev req incl FF&U AL 1693-G	1.6%	0.0%	2.8%
AB32 Fees (subtracted from base margin and allocated here)	23.6%	25.3%	31.2%
Subtotal Other Operating Costs and Revenues			

SDG&E Cost Alloc
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's				Res	NGV	Core C&I	Total Core
Regulatory Accounts							
Adv Mtring Infrastructure Balancing Acct AMIBA	Y	Y	\$0	\$0	\$0	\$0	\$0
On-Bill Financing Balancing Account (OBFBFA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Baseline Balance BA		Y	\$0	\$0	\$0	\$0	\$0
CFCA -Margin Only		Y	(\$10,898)	(\$6,848)	(\$396)	(\$3,909)	(\$11,153)
CFCA -Nonmargin Other		Y	(\$773)	(\$485)	(\$28)	(\$277)	(\$791)
CFCA -Nonmargin SCG		Y	(\$2,097)	(\$1,318)	(\$76)	(\$752)	(\$2,146)
Environmental Fee Balance Account EFBA		Y	\$0	\$0	\$0	\$0	\$0
Disconnect Memorandum Account (DMA)		Y	\$0	\$0	\$0	\$0	\$0
Distribution Integrity Management Program Memorandum Account (DIMPBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Transmission Integrity Management Program Memorandum Account (TIMPBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
FERC Settlement Proceeds MA		Y	\$0	\$0	\$0	\$0	\$0
Core Gas Storage Balancing Acct. GSBA-C		Y	\$0	\$0	\$0	\$0	\$0
Hazardous Substance Cleanup Cost Acct HSCCA		Y	(\$207)	(\$55)	(\$3)	(\$31)	(\$89)
Master Meter Balancing Account (MMBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Natural Gas Supp Refund Track Acct		Y	\$0	\$0	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount		Y	(\$569)	(\$246)	(\$14)	(\$140)	(\$401)
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	Y	Y	\$508	\$445	\$2	\$58	\$505
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	Y	Y	(\$1,184)	(\$1,036)	(\$5)	(\$136)	(\$1,178)
NFCA -Margin Only	Y	Y	(\$4,899)	\$0	\$0	\$0	\$0
NFCA -Nonmargin Other		Y	(\$1,360)	\$0	\$0	\$0	\$0
NFCA -Nonmargin SCG		Y	(\$10,072)	\$0	\$0	\$0	\$0
NGVA		Y	\$0	\$0	\$0	\$0	\$0
Non-Core Gas Storage Balancing Acct GSBA-NC		Y	\$0	\$0	\$0	\$0	\$0
PBOPBA	Y	Y	(\$436)	(\$382)	(\$2)	(\$50)	(\$434)
Pension BA	Y	Y	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission		Y	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmission		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBA) - Local Transmission		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBA) - Distribution		Y	\$0	\$0	\$0	\$0	\$0
RD&D 1-Way Bal Acct (Pre-2001)		Y	\$0	\$0	\$0	\$0	\$0
Rewards & Penalties Bal Acct RPBA	Y	Y	\$302	\$265	\$1	\$35	\$301
Self Gen Memo Acct - SGPMA-CSI	Y	Y	\$0	\$0	\$0	\$0	\$0
Self Gen Memo Acct - SGPMA-NonCSI	Y	Y	\$0	\$0	\$0	\$0	\$0
SGPMA - Rev Req for NEXT Year	Y	Y	\$0	\$0	\$0	\$0	\$0
Gain/Loss on Sale Memo Acct GLOSMA	Y	Y	\$0	\$0	\$0	\$0	\$0
Integrated Transmission Margin ITBA		Y	\$1,502	\$426	\$22	\$228	\$677
Integrated Transmission Nonmargin ITBA		Y	\$0	\$0	\$0	\$0	\$0
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	Y	N	\$0	\$0	\$0	\$0	\$0
GRCRRMA Sub allocation for AB32 Admin Fees		N	\$0	\$0	\$0	\$0	\$0
CSI Thermal Program memoradum Account		Y	\$539	\$288	\$13	\$204	\$504
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Z-Factor Memorandum Account	Y	Y	\$0	\$0	\$0	\$0	\$0
Total Regulatory Accounts			(\$29,645)	(\$8,946)	(\$486)	(\$4,771)	(\$14,204)

SDG&E Cost Alloc
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total		
Regulatory Accounts								
Adv Mtring Infrastructure Balancing Acct AMIBA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
On-Bill Financing Balancing Account (OBFBFA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Baseline Balance BA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CFCA -Margin Only	\$0	\$0	\$0	\$0	\$0	(\$11,153)	(\$254)	(\$10,898)
CFCA -Nonmargin Other	\$0	\$0	\$0	\$0	\$0	(\$791)	(\$18)	(\$773)
CFCA -Nonmargin SCG	\$0	\$0	\$0	\$0	\$0	(\$2,146)	(\$49)	(\$2,097)
Environmental Fee Balance Account EFBA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Disconnect Memorandum Account (DMA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Distribution Integrity Management Program Memorandum Account (DIMPBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Transmission Integrity Management Program Memorandum Account (TIMPBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FERC Settlement Proceeds MA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Core Gas Storage Balancing Acct. GSBA-C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hazardous Substance Cleanup Cost Acct HSCCA	(\$8)	(\$4)	(\$111)	(\$115)	(\$122)	(\$212)	(\$5)	(\$207)
Master Meter Balancing Account (MMBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Natural Gas Supp Refund Track Acct	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount	(\$35)	(\$10)	(\$137)	(\$147)	(\$182)	(\$583)	(\$13)	(\$569)
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	\$4	\$2	\$9	\$11	\$14	\$520	\$12	\$508
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	(\$8)	(\$6)	(\$20)	(\$25)	(\$34)	(\$1,211)	(\$28)	(\$1,184)
NFCA -Margin Only	(\$1,244)	(\$824)	(\$2,945)	(\$3,769)	(\$5,014)	(\$5,014)	(\$114)	(\$4,899)
NFCA -Nonmargin Other	(\$88)	(\$41)	(\$1,263)	(\$1,304)	(\$1,392)	(\$1,392)	(\$32)	(\$1,360)
NFCA -Nonmargin SCG	(\$648)	(\$307)	(\$9,352)	(\$9,659)	(\$10,307)	(\$10,307)	(\$235)	(\$10,072)
NGVA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Non-Core Gas Storage Balancing Acct GSBA-NC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PBOPBA	(\$3)	(\$2)	(\$7)	(\$9)	(\$12)	(\$446)	(\$10)	(\$436)
Pension BA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmission	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBA) - Local Transmission	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBA) - Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RD&D 1-Way Bal Acct (Pre-2001)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rewards & Penalties Bal Acct RPBA	\$2	\$1	\$5	\$6	\$9	\$309	\$7	\$302
Self Gen Memo Acct - SGPMA-CSI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Self Gen Memo Acct - SGPMA-NonCSI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SGPMA - Rev Req for NEXT Year	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Gain/Loss on Sale Memo Acct GLOSMA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Integrated Transmission Margin ITBA	\$54	\$26	\$780	\$806	\$860	\$1,537	\$35	\$1,502
Integrated Transmission Nonmargin ITBA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
GRCRRMA Sub allocation for AB32 Admin Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CSI Thermal Program memoradum Account	\$47	\$0	\$0	\$0	\$47	\$551	\$13	\$539
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Z-Factor Memorandum Account	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Regulatory Accounts	(\$1,927)	(\$1,164)	(\$13,042)	(\$14,206)	(\$16,133)	(\$30,337)	(\$692)	(\$29,645)

SDG&E Cost Alloc
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MARGINAL COST COMPONENTS \$000's	Source	Allocation	Allocation %						
			Total System	Res	NGV	Core C&I	Total Core	NCCI	EG <3 mmth/yr
Regulatory Accounts									
Adv Mtring Infrastructure Balancing Acct AMIBA	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
On-Bill Financing Balancing Account (OBFBA)	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Baseline Balance BA	Reg. Acct Filing 10/2014	100% Res	100.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%
CFCA -Margin Only	Reg. Acct Filing 10/2014	ECPT-Core	100.0%	61.4%	3.6%	35.0%	100.0%	0.0%	0.0%
CFCA -Nonmargin Other	Reg. Acct Filing 10/2014	ECPT-Core	100.0%	61.4%	3.6%	35.0%	100.0%	0.0%	0.0%
CFCA -Nonmargin SCG	Reg. Acct Filing 10/2014	ECPT-Core	100.0%	61.4%	3.6%	35.0%	100.0%	0.0%	0.0%
Environmental Fee Balance Account EFBA	Reg. Acct Filing 10/2014	ECPT AB32 Fee Non-Exempt	100.0%	42.2%	2.4%	24.1%	68.8%	5.9%	1.7%
Disconnect Memorandum Account (DMA)	Reg. Acct Filing 10/2014	100% Res	100.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%
Distribution Integrity Management Program Memorandum Account (DIMPBA)	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Transmission Integrity Management Program Memorandum Account (TIMPBA)	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
FERC Settlement Proceeds MA	Reg. Acct Filing 10/2014	CAT allocation	100.0%	5.5%	23.5%	70.9%	100.0%	0.0%	0.0%
Core Gas Storage Balancing Acct. GSBA-C	Reg. Acct Filing 10/2014	ECPT-Core	100.0%	61.4%	3.6%	35.0%	100.0%	0.0%	0.0%
Hazardous Substance Cleanup Cost Acct HSCCA	Reg. Acct Filing 10/2014	ECPT	100.0%	25.9%	1.5%	14.8%	42.2%	3.6%	1.7%
Master Meter Balancing Account (MMBA)	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Natural Gas Supp Refund Track Acct	Reg. Acct Filing 10/2014	ECPT	100.0%	25.9%	1.5%	14.8%	42.2%	3.6%	1.7%
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount	Reg. Acct Filing 10/2014	ECPT AB32 Fee Non-Exempt	100.0%	42.2%	2.4%	24.1%	68.8%	5.9%	1.7%
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
NFCA -Margin Only	Reg. Acct Filing 10/2014	EPAM Noncore Only	100.0%	0.0%	0.0%	0.0%	0.0%	24.8%	16.4%
NFCA -Nonmargin Other	Reg. Acct Filing 10/2014	ECPT-Noncore	100.0%	0.0%	0.0%	0.0%	0.0%	6.3%	3.0%
NFCA -Nonmargin SCG	Reg. Acct Filing 10/2014	ECPT-Noncore	100.0%	0.0%	0.0%	0.0%	0.0%	6.3%	3.0%
NGVA	Reg. Acct Filing 10/2014	ECPT	100.0%	25.9%	1.5%	14.8%	42.2%	3.6%	1.7%
Non-Core Gas Storage Balancing Acct GSBA-NC	Reg. Acct Filing 10/2014	ECPT-Noncore	100.0%	0.0%	0.0%	0.0%	0.0%	6.3%	3.0%
PBOPBA	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Pension BA	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission	Reg. Acct Filing 10/2014	CYPM	100.0%	36.9%	1.2%	14.6%	52.7%	2.8%	1.3%
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution	Reg. Acct Filing 10/2014	%HPD Peak day	100.0%	69.2%	1.2%	21.3%	91.7%	1.9%	1.4%
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmission	Reg. Acct Filing 10/2014	CYPM	100.0%	36.9%	1.2%	14.6%	52.7%	2.8%	1.3%
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution	Reg. Acct Filing 10/2014	%HPD Peak day	100.0%	69.2%	1.2%	21.3%	91.7%	1.9%	1.4%
Safety Enhancement Expense Balancing Account (SEEBBA) - Local Transmission	Reg. Acct Filing 10/2014	CYPM	100.0%	36.9%	1.2%	14.6%	52.7%	2.8%	1.3%
Safety Enhancement Expense Balancing Account (SEEBBA) - Distribution	Reg. Acct Filing 10/2014	%HPD Peak day	100.0%	69.2%	1.2%	21.3%	91.7%	1.9%	1.4%
RD&D 1-Way Bal Acct (Pre-2001)	Reg. Acct Filing 10/2014	ECPT	100.0%	25.9%	1.5%	14.8%	42.2%	3.6%	1.7%
Rewards & Penalties Bal Acct RPBA	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Self Gen Memo Acct - SGPMA-CSI	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Self Gen Memo Acct - SGPMA-NonCSI	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
SGPMA - Rev Req for NEXT Year	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Gain/Loss on Sale Memo Acct GLOSMA	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Integrated Transmission Margin ITBA	Reg. Acct Filing 10/2014	CYTP	100.0%	27.7%	1.4%	14.9%	44.0%	3.5%	1.7%
Integrated Transmission Nonmargin ITBA	Reg. Acct Filing 10/2014	CYTP	100.0%	27.7%	1.4%	14.9%	44.0%	3.5%	1.7%
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
GRCRRMA Sub allocation for AB32 Admin Fees	Reg. Acct Filing 10/2014	ECPT AB32 Fee Non-Exempt	100.0%	42.2%	2.4%	24.1%	68.8%	5.9%	1.7%
CSI Thermal Program memorandum Account	Reg. Acct Filing 10/2014	ECPT ex CARE, EG, Cost. Exempt	100.0%	52.2%	2.3%	36.9%	91.4%	8.6%	0.0%
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Z-Factor Memorandum Account	Reg. Acct Filing 10/2014	EPAM	100.0%	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%
Total Regulatory Accounts									

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MARGINAL COST COMPONENTS \$000's	EG>=3 mmth/yr	Total EG	Total NonCore
Regulatory Accounts			
Adv Mtring Infrastructure Balancing Acct AMIBA	1.6%	0.0%	2.8%
On-Bill Financing Balancing Account (OBFBA)	1.6%	0.0%	2.8%
Baseline Balance BA	0.0%	0.0%	0.0%
CFCA -Margin Only	0.0%	0.0%	0.0%
CFCA -Nonmargin Other	0.0%	0.0%	0.0%
CFCA -Nonmargin SCG	0.0%	0.0%	0.0%
Environmental Fee Balance Account EFBA	23.6%	25.3%	31.2%
Disconnect Memorandum Account (DMA)	0.0%	0.0%	0.0%
Distribution Integrity Management Program Memorandum Account (DIMPBA)	1.6%	0.0%	2.8%
Transmission Integrity Management Program Memorandum Account (TIMPBA)	1.6%	0.0%	2.8%
FERC Settlement Proceeds MA	0.0%	0.0%	0.0%
Core Gas Storage Balancing Acct. GSBA-C	0.0%	0.0%	0.0%
Hazardous Substance Cleanup Cost Acct HSCCA	52.5%	0.0%	57.8%
Master Meter Balancing Account (MMBA)	1.6%	0.0%	2.8%
Natural Gas Supp Refund Track Acct	52.5%	0.0%	57.8%
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount	23.6%	25.3%	31.2%
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	1.6%	0.0%	2.8%
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	1.6%	0.0%	2.8%
NFCA -Margin Only	58.7%	75.2%	100.0%
NFCA -Nonmargin Other	90.7%	0.0%	100.0%
NFCA -Nonmargin SCG	90.7%	0.0%	100.0%
NGVA	52.5%	0.0%	57.8%
Non-Core Gas Storage Balancing Acct GSBA-NC	90.7%	0.0%	100.0%
PBOPBA	1.6%	0.0%	2.8%
Pension BA	1.6%	0.0%	2.8%
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission	43.2%	0.0%	47.3%
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution	4.9%	6.4%	8.3%
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmission	43.2%	0.0%	47.3%
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution	4.9%	6.4%	8.3%
Safety Enhancement Expense Balancing Account (SEEBA) - Local Transmission	43.2%	0.0%	47.3%
Safety Enhancement Expense Balancing Account (SEEBA) - Distribution	4.9%	6.4%	8.3%
RD&D 1-Way Bal Acct (Pre-2001)	52.5%	0.0%	57.8%
Rewards & Penalties Bal Acct RPBA	1.6%	0.0%	2.8%
Self Gen Memo Acct - SGPMA-CSI	1.6%	0.0%	2.8%
Self Gen Memo Acct - SGPMA-NonCSI	1.6%	0.0%	2.8%
SGPMA - Rev Req for NEXT Year	1.6%	0.0%	2.8%
Gain/Loss on Sale Memo Acct GLOSMA	1.6%	0.0%	2.8%
Integrated Transmission Margin ITBA	50.8%	0.0%	56.0%
Integrated Transmission Nonmargin ITBA	50.8%	0.0%	56.0%
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	1.6%	0.0%	2.8%
GRCRRMA Sub allocation for AB32 Admin Fees	23.6%	25.3%	31.2%
CSI Thermal Program memoradum Account	0.0%	0.0%	8.6%
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	1.6%	0.0%	2.8%
Z-Factor Memorandum Account	1.6%	0.0%	2.8%
Total Regulatory Accounts			

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MARGINAL COST COMPONENTS \$000's	Res	NGV	Core C&I	Total Core
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr	\$237,425	\$1,060	\$30,132	\$268,617
AVERAGE YEAR THROUGHPUT, Mth/yr	319,982	18,501	182,660	521,144
Average Rate \$/th	\$0.74199	\$0.05728	\$0.16496	\$0.51544
FFU Rate	102.33%	102.33%	102.33%	102.33%

SDG&E Cost Alloc
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MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr	\$438	\$310	(\$2,305)	(\$1,995)	(\$1,557)	\$267,059
AVERAGE YEAR THROUGHPUT, Mth/yr	44,975	21,281	648,600	669,882	714,857	1,236,000
Average Rate \$/th	\$0.00973	\$0.01455	(\$0.00355)	(\$0.00298)	(\$0.00218)	\$0.21607
FFU Rate	102.33%	102.33%	102.33%	102.33%	102.33%	102.33%

SDG&E Cost Alloc
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MARGINAL COST COMPONENTS \$000's	Source	Allocation	Allocation %							
			Total System	Res	NGV	Core C&I	Total Core	NCCI	EG <3 mmth/yr	
<u>Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr</u>										
AVERAGE YEAR THROUGHPUT, Mth/yr										
Average Rate \$/th										
FFU Rate	MISC Inputs									

SDG&E Cost Alloc
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MARGINAL COST COMPONENTS \$000's	EG>=3	Total
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr	mmth/yr	Total EG NonCore
AVERAGE YEAR THROUGHPUT, Mth/yr		
Average Rate \$/th		
FFU Rate		



SDG&E Cost Alloc
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MARGINAL COST COMPONENTS \$000's	Res	NGV	Core C&I	Total Core
Sempra Wide & TLS Adjustments::				
Transport Rev Req w/Sl, FFU w/o BTS Rev, SW adj, TLS \$000/yr	\$237,425	\$1,060	\$30,132	\$268,617
SW NGV Adjustment		\$1,130		\$1,130
SW EG Adjustment				\$0
TLS Adjustment				
Amount allocated to TLS Class \$000				\$0
TLS revenue paid by class @ average TLS rate \$000				\$0
	\$0	\$0	\$0	\$0
Transport Rev Req w/Sl, FFU, SW adj, TLS w/o BTS Rev \$000/yr	\$237,425	\$2,190	\$30,132	\$269,747
<i>Rate Tables</i>	<i>\$237,425</i>	<i>\$2,190</i>	<i>\$30,132</i>	<i>\$269,747</i>
<i>difference</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>
AYTP Mth/yr	319,982	18,501	182,660	521,144
Average Rate w/oBTS \$/th	\$0.74199	\$0.11837	\$0.16496	\$0.51761
<i>Rate Tables</i>	<i>\$0.74199</i>	<i>\$0.11837</i>	<i>\$0.16496</i>	<i>\$0.51761</i>
<i>difference</i>	<i>\$0.00000</i>	<i>\$0.00000</i>	<i>\$0.00000</i>	<i>\$0.00000</i>
BTS w/FFU Charge \$000	\$6,822	\$356	\$3,653	\$10,832
Transport Rev Req w/Sl, FFU, SW adj, TLS, BTS Rev \$000/yr	\$244,247	\$2,546	\$33,785	\$280,579
Average Rate w/ BTS \$/th	\$0.76331	\$0.13763	\$0.18496	\$0.53839

SDG&E Cost Alloc
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MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total
Sempra Wide & TLS Adjustments::						
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr	\$438			(\$1,995)	(\$1,557)	\$267,059
SW NGV Adjustment					\$0	\$1,130
SW EG Adjustment				\$3,757	\$3,757	\$3,757
TLS Adjustment						
Amount allocated to TLS Class \$000	\$25			\$2,250	\$2,275	\$2,275
TLS revenue paid by class @ average TLS rate \$000	\$243			\$7,521	\$7,765	\$7,765
	\$268			\$9,772	\$10,040	\$10,040
Transport Rev Req w/SI, FFU, SW adj, TLS w/o BTS Rev \$000/yr	\$706			\$11,534	\$12,239	\$281,986
<i>Rate Tables difference</i>	<i>\$706</i>			<i>\$11,534</i>	<i>\$12,239</i>	<i>\$281,986</i>
<i>difference</i>	<i>\$0</i>			<i>\$0</i>	<i>\$0</i>	<i>\$0</i>
AYTP Mth/yr	44,975			669,882	714,857	1,236,000
Average Rate w/oBTS \$/th	\$0.01570			\$0.01722	\$0.01712	\$0.22814
<i>Rate Tables difference</i>	<i>\$0.01570</i>			<i>\$0.01722</i>	<i>\$0.01712</i>	<i>\$0.22814</i>
<i>difference</i>	<i>\$0.00000</i>			<i>\$0.00000</i>	<i>\$0.00000</i>	<i>\$0.00000</i>
BTS w/FFU Charge \$000	\$866	\$410	\$12,492	\$12,902	\$13,769	\$24,600
Transport Rev Req w/SI, FFU, SW adj, TLS, BTS Rev \$000/yr	\$1,572			\$24,436	\$26,008	\$306,587
Average Rate w/ BTS \$/th	\$0.03496			\$0.03648	\$0.03638	\$0.24805

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MARGINAL COST COMPONENTS \$000's	Source	Allocation	Allocation %					EG <3 mmth/yr
			Total System	Res	NGV	Core C&I	Total Core	
Sempra Wide & TLS Adjustments::								
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr								
SW NGV Adjustment								
SW EG Adjustment								
TLS Adjustment								
Amount allocated to TLS Class \$000								
TLS revenue paid by class @ average TLS rate \$000								
<hr/> Transport Rev Req w/SI, FFU, SW adj, TLS w/o BTS Rev \$000/yr <hr/>								
Rate Tables difference		Cost Alloc						
<hr/>								
AYTP Mth/yr								
Average Rate w/oBTS \$/th								
Rate Tables difference		Cost Alloc						
<hr/>								
BTS w/FFU Charge \$000		SCG/ Local & BBT						
Transport Rev Req w/SI, FFU, SW adj, TLS, BTS Rev \$000/yr								
Average Rate w/ BTS \$/th								

SDG&E Cost Alloc
 2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	EG>=3 mmth/yr	Total EG	Total NonCore
Sempra Wide & TLS Adjustments::			
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr			
SW NGV Adjustment			
SW EG Adjustment			
TLS Adjustment			
Amount allocated to TLS Class \$000			
TLS revenue paid by class @ average TLS rate \$000			
Transport Rev Req w/SI, FFU, SW adj, TLS w/o BTS Rev \$000/yr			
<i>Rate Tables</i>			
<i>difference</i>			
AYTP Mth/yr			
Average Rate w/oBTS \$/th			
<i>Rate Tables</i>			
<i>difference</i>			
BTS w/FFU Charge \$000			
Transport Rev Req w/SI, FFU, SW adj, TLS, BTS Rev \$000/yr			
Average Rate w/ BTS \$/th			

**SDG&E AB 32 Admin Fees
2016 TCAP Phase II Rates**

Summary of Rate Adder Components

	System Total	Rate Adder Contribution	Relative Contribution
AB32 Fees (subtracted from base margin and allocated here)	\$552	\$0.00073	-1773%
Environmental Fee Memorandum Account EFMA	\$0	\$0.00000	0%
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount	(\$583)	(\$0.00077)	1873%
GRCRRMA Sub allocation for AB32 Admin Fees	\$0	\$0.00000	0%
Total	(\$31)		100%
AYTP Mth/yr AB32 Fee Non-Exempt Customers Mth/y	757,779		
Rate Adder \$/th	(\$0.00004)	(\$0.00004)	

AB 32 Admin Fee Components from Cost Alloc

	Res	NGV	Core C&I
AB32 Fees (subtracted from base margin and allocated here)	\$233	\$13	\$133
Environmental Fee Memorandum Account EFMA	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount	(\$246)	(\$14)	(\$140)
GRCRRMA Sub allocation for AB32 Admin Fees	\$0	\$0	\$0
Total	(\$13)	(\$1)	(\$8)
AYTP Mth/yr AB32 Fee Non-Exempt Customers Mth/y	319,982	18,501	182,660
Rate Adder \$/th	(\$0.00004)	(\$0.00004)	(\$0.00004)

AB 32 Admin Fee Components from NCCI Detail Alloc

	NCCI-D	NCCI-T	Total Allocated to NCCI
AB32 Fees (subtracted from base margin and allocated here)	\$20	\$12	\$33
Environmental Fee Memorandum Account EFMA	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount	(\$21)	(\$13)	(\$35)
GRCRRMA Sub allocation for AB32 Admin Fees	\$0	\$0	\$0
Total	(\$1)	(\$1)	(\$2)
AYTP Mth/yr AB32 Fee Non-Exempt Customers Mth/y	27,807	17,168	44,975
Rate Adder	(\$0.00004)	(\$0.00004)	(\$0.00004)

AB 32 Admin Fee Components from EG Detail Alloc

	EG-D-T1	EG-D-T2	EG-T
AB32 Fees (subtracted from base margin and allocated here)	\$13	\$52	\$75
Environmental Fee Memorandum Account EFMA	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount	(\$14)	(\$55)	(\$79)
GRCRRMA Sub allocation for AB32 Admin Fees	\$0	\$0	\$0
Total	(\$1)	(\$3)	(\$4)
AYTP Mth/yr AB32 Fee Non-Exempt Customers Mth/y	17,633	71,035	102,991
Rate Adder	(\$0.00004)	(\$0.00004)	(\$0.00004)

Total Core	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total	F&U Amount \$000	Total Allocated \$000	Source
\$379	\$33	\$10	\$130	\$140	\$172	\$552	\$13	\$539	Cost Alloc
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Cost Alloc
(\$401)	(\$35)	(\$10)	(\$137)	(\$147)	(\$182)	(\$583)	(\$13)	(\$569)	Cost Alloc
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Cost Alloc
(\$21)	(\$2)	(\$1)	(\$7)	(\$8)	(\$10)	(\$31)	(\$1)	(\$30)	
521,144	44,975	13,053	178,607	191,661	236,636	757,779			Alloc Factors
(\$0.00004)	(\$0.00004)	(\$0.00004)	(\$0.00004)	(\$0.00004)	(\$0.00004)	(\$0.00004)			

Source

NCCI Detail Alloc
NCCI Detail Alloc
NCCI Detail Alloc
NCCI Detail Alloc

NCCI Detail Alloc

Total EG	Source
\$140	EG Detail Alloc
\$0	EG Detail Alloc
(\$147)	EG Detail Alloc
\$0	EG Detail Alloc
(\$8)	
191,660	EG Detail Alloc
(\$0.00004)	

SDGE Allocation Factors
2016 TCAP Phase II Rates

Toggle **2** (1=Old, 2=New)

	Res	NGV	Core C&I	Total Core	Non Core			Total EG	Total Non Core	Total System
					C&I	EG Tier 1	EG Tier 2			
DIRECT (%s Load or Cust/Mtrs Sum to 100%)										
Transmission										
Average Year Throughput (MTh)	0	0	0	0	17,168	2,071	572,004	574,075	591,243	591,243
Cold Year Throughput (1-in-35) (MTh)	0	0	0	0	17,168	2,071	572,004	574,075	591,243	591,243
Cold Year Peak Month (December) (MTh)	0	0	0	0	1,516	166	53,795	53,961	55,477	55,477
Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	0	0	0	0	49	19	1,968	1,987	2,036	2,036
Number of Customers	0	0	0	0	10	5	13	18	27	27
High Pressure										
Average Year Throughput (MTh)	93	11,340	3,429	14,862	7,630	4,914	68,276	73,190	80,820	95,681
Cold Year Throughput (1-in-35) (MTh)	102	11,340	3,561	15,003	7,630	4,914	68,276	73,190	80,820	95,823
Cold Year Peak Month (December) (MTh)	15	984	383	1,382	674	388	5,744	6,133	6,806	8,188
Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	1	32	17	49	22	22	185	207	229	278
Number of Customers	1	8	6	15	9	6	5	11	20	35
Medium Pressure										
Average Year Throughput (MTh)	319,890	7,162	179,231	506,282	20,177	14,297	8,320	22,617	42,794	549,076
Cold Year Throughput (1-in-35) (MTh)	354,096	7,162	186,126	547,383	20,177	14,297	8,320	22,617	42,794	590,177
Cold Year Peak Month (December) (MTh)	51,518	622	19,998	72,138	1,781	1,203	700	1,903	3,684	75,822
Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,911	20	879	3,810	57	39	23	61	119	3,928
Number of Customers	884,623	30	30,259	914,912	33	40	2	42	75	914,987
CUMULATIVE (Calc'd from DIRECT %s)										
Transmission										
Average Year Throughput (MTh)	319,982	18,501	182,660	521,144	44,975	21,281	648,600	669,882	714,857	1,236,000
Cold Year Throughput (1-in-35) (MTh)	354,198	18,501	189,687	562,386	44,975	21,281	648,600	669,882	714,857	1,277,243
Cold Year Peak Month (December) (MTh)	51,533	1,606	20,381	73,520	3,970	1,757	60,239	61,997	65,967	139,487
Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,912	52	896	3,859	128	79	2,176	2,255	2,383	6,242
Number of Customers	884,624	38	30,265	914,927	52	51	20	71	123	915,050
High Pressure										
Average Year Throughput (MTh)	319,982	18,501	182,660	521,144	27,807	19,210	76,596	95,807	123,614	644,757
Cold Year Throughput (1-in-35) (MTh)	354,198	18,501	189,687	562,386	27,807	19,210	76,596	95,807	123,614	686,000
Cold Year Peak Month (December) (MTh)	51,533	1,606	20,381	73,520	2,455	1,591	6,444	8,036	10,490	84,010
Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,912	52	896	3,859	79	61	208	268	348	4,207
Number of Customers	884,624	38	30,265	914,927	42	46	7	53	95	915,022
Medium Pressure										
Average Year Throughput (MTh)	319,890	7,162	179,231	506,282	20,177	14,297	8,320	22,617	42,794	549,076
Cold Year Throughput (1-in-35) (MTh)	354,096	7,162	186,126	547,383	20,177	14,297	8,320	22,617	42,794	590,177
Cold Year Peak Month (December) (MTh)	51,518	622	19,998	72,138	1,781	1,203	700	1,903	3,684	75,822
Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh)	2,911	20	879	3,810	57	39	23	61	119	3,928
Number of Customers	884,623	30	30,259	914,912	33	40	2	42	75	914,987
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU	\$236,057	\$1,209	\$30,981	\$268,246	\$1,910	\$1,265	\$4,521	\$5,786	\$7,696	\$275,942

SDGE Allocation Factors
2016 TCAP Phase II Rates

Toggle **2** (1=Old, 2=New)

	Res	NGV	Core C&I	Total Core	Non Core			Total EG	Total Non Core	Total System
					C&I	EG Tier 1	EG Tier 2			
Calculation of Allocation Factors:										
Cumulative Transmission # Customers	884,624	38	30,265	914,927	52	51	20	71	123	915,050
Cumulative Transmission AYTP Mth/yr	319,982	18,501	182,660	521,144	44,975	21,281	648,600	669,882	714,857	1,236,000
AYTP System	25.9%	1.5%	14.8%	42.2%	3.6%	1.7%	52.5%		57.8%	100.0%
AYTP Core	61.4%	3.6%	35.0%	100.0%					-	100.0%
AYTP Noncore				-	6.3%	3.0%	90.7%		100.0%	714,857
AYTP Core & NonCore Distribution Only:										
System Total Mth/yr	319,982	18,501	182,660	521,144	44,975	21,281	648,600	669,882	714,857	1,236,000
Less NonCore Transmission Mth/yr					(17,168)	(2,071)	(572,004)	(574,075)	(591,243)	(591,243)
AYTP Core & NonCore Distribution Only	319,982	18,501	182,660	521,144	27,807	19,210	76,596	95,807	123,614	644,757
%AYTP Core & NonCore Distribution	49.6%	2.9%	28.3%	80.8%	4.3%	3.0%	11.9%	14.9%	19.2%	100.0%
Cumulative Transmission CYTP Mth/yr	354,198	18,501	189,687	562,386	44,975	21,281	648,600	669,882	714,857	1,277,243
CYTP System	27.7%	1.4%	14.9%	44.0%	3.5%	1.7%	50.8%		56.0%	100.0%
Cumulative Transmission CYPM Mth/mo	51,533	1,606	20,381	73,520	3,970	1,757	60,239	61,997	65,967	139,487
CYCPM System Total	36.9%	1.2%	14.6%	52.7%	2.8%	1.3%	43.2%		47.3%	100.0%
CYPM Core Only	70.1%	2.2%	27.7%	100.0%				0.0%	0.0%	100.0%
CYPM Noncore Only				0.0%	6.0%	2.7%	91.3%	94.0%	100.0%	100.0%
CYPM EG-T Only mth/mo						166	53,795	53,961	53,961	53,961
% CYPM EG-T Only						0.3%	99.7%	100.0%	100.0%	100.0%
Cumulative Transmission Peak Day Mth/day	2,912	52	896	3,859	128	79	2,176	2,255	2,383	6,242
PDD System Total	46.6%	0.8%	14.3%	61.8%	2.1%	1.3%	34.9%		38.2%	100.0%
Cumulative HP Distribution Peak Day Mth/day	2,912	52	896	3,859	79	61	208	268	348	4,207
CYPM System Total	69.2%	1.2%	21.3%	91.7%	1.9%	1.4%	4.9%	6.4%	8.3%	100.0%
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU	\$236,057	\$1,209	\$30,981	\$268,246	\$1,910	\$1,265	\$4,521	\$5,786	\$7,696	\$275,942
EPAM All	85.5%	0.4%	11.2%	97.2%	0.7%	0.5%	1.6%		2.8%	100.0%
Core EPAM	88.0%	0.5%	11.5%	100.0%					-	100.0%
NonCore EPAM					24.8%	16.4%	58.7%	75.2%	100.0%	268,246
										7,696

LUAF Allocator:

Method #1 = Based on 2007 Rates: NOT USED

LUAF in 2007 Rates	\$827	\$10	\$329	\$1,167	\$219	\$428	\$1,849	\$2,277	\$2,496	\$3,663
% 2007 UAF Allocation	22.6%	0.3%	9.0%	31.9%	6.0%	11.7%	50.5%	62.2%	68.1%	100.0%

Method #2 - 65% core @ ECPT / 35% noncore @ ECPT: NOT USED

Core ECPT	61.4%	3.6%	35.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
NonCore ECPT	0.0%	0.0%	0.0%	0.0%	6.3%	3.0%	90.7%	0.0%	100.0%	100.0%
% Core	77.0%	77.0%	77.0%	77.0%	77.0%	77.0%	77.0%	77.0%	77.0%	77.0%
% Noncore	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%	23.0%
% LUAF Allocation	47.3%	2.7%	27.0%	77.0%	1.4%	0.7%	20.9%	21.6%	23.0%	100.0%

Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh) Direct	2,911	20	879	3,810	57	39	23	61	119	3,928
Peak Day (1-in-35 Core; 1-in-10 Noncore) (MTh) Direct Res & CCI	2,911		879	3,790				0	0	3,790
% CYPD MP Res & CCI	76.8%	0.0%	23.2%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

SDGE Allocation Factors
2016 TCAP Phase II Rates

Toggle 2 (1=Old, 2=New)

	Res	NGV	Core C&I	Total Core	Non Core			Total EG	Total Non Core	Total System
					C&I	EG Tier 1	EG Tier 2			
Method #3 - 59% core @ ECPT / 41% noncore @ ECPT - USED										
Core ECPT	61.4%	3.6%	35.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
NonCore ECPT	0.0%	0.0%	0.0%	0.0%	6.3%	3.0%	90.7%	0.0%	100.0%	100.0%
% Core	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%
% Noncore	23.3%	23.3%	23.3%	23.3%	23.3%	23.3%	23.3%	23.3%	23.3%	23.3%
% LUAF Allocation	47.1%	2.7%	26.9%	76.7%	1.5%	0.7%	21.1%	21.8%	23.3%	100.0%

Calculation of CAT allocation:

AYTP Core Transport Mth/yr	2,764	11,765	35,463	49,992	0	0	0	0	0	49,992
CAT allocation	5.5%	23.5%	70.9%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%

Allocators for California Solar Initiative Thermal Memorandum Account (CSITMA):

AYTP Mth/yr all customers Mth/y	319,982	18,501	182,660	521,144	44,975	21,281	648,600	669,882	714,857	1,236,000
CARE Participants Mth/y	(61,319)	0	0	(61,319)	0	0	0	0	0	(61,319)
FERA Participants Mth/y	0	0	0	0	0	0	0	0	0	0
SGIP Exempt Mth/y	0	0	0	0	0	0	0	0	0	0
EG Exempt Mth/y	0	0	0	0	0	(21,281)	(648,600)	(669,882)	(669,882)	(669,882)
Constitutionally Exempt Mth/y	(615)	(7,093)	(11)	(7,719)	(2,653)	0	0	0	0	(10,372)
AYTP Mth/yr excl CARE Participant & EOR Mth/y	258,048	11,409	182,649	452,105	42,322	0	0	0	42,322	494,427
% ECPT excl CARE, FERA, SGIP, EG, Constitutional Exempt	52.2%	2.3%	36.9%	91.4%	8.6%	0.0%	0.0%	0.0%	8.6%	100.0%
CSI Thermal Program memorandum Account (\$000)										\$551
CSITMA Adder to Volumetric Rate										\$0.00112

Allocator for California Air Resources Board AB 32 Admin Fee:

AYTP Mth/yr all customers Mth/y	319,982	18,501	182,660	521,144	44,975	21,281	648,600	669,882	714,857	1,236,000
Less: AB32Fees Exempt Customers Mth/y	0	0	0	0	0	(8,228)	(469,993)	(478,221)	(478,221)	(478,221)
AYTP Mth/yr AB32 Fee Non-Exempt Customers Mth/y	319,982	18,501	182,660	521,144	44,975	13,053	178,607	191,661	236,636	757,779
% ECPT AB32 Fee Non-Exempt	42.2%	2.4%	24.1%	68.8%	5.9%	1.7%	23.6%	25.3%	31.2%	100.0%

Cost Allocation Model Results
2016 TCAP Phase II Rates

Transition Adjustments Toggle 0

Procedure:

#1) Input from Cost Allocation Tab

#2) Transition Adjustments by Year

#3) Transition Adjustments Added to Customer Cost - output to Cost Alloc tab

	Res	NGV	Core C&I	Total Core	Total NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total	
#1) Input from Cost Allocation Tab											
Customer Related Costs	\$171,945	\$138	\$11,309	\$183,392	\$428	\$305	\$118	\$423	\$851	\$184,243	
Medium Pressure Distribution Costs	\$55,487	\$382	\$16,750	\$72,618	\$1,095	\$740	\$430	\$1,170	\$2,265	\$74,884	
High Pressure Distribution Costs	\$5,567	\$99	\$1,712	\$7,378	\$151	\$116	\$397	\$513	\$665	\$8,042	
Backbone Transmission Costs	\$38,229	\$10,601	\$5,677	\$16,833	\$1,346	\$637	\$19,413	\$20,050	\$21,396	\$38,229	
Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Storage - Borrego	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Storage - Load Balancing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
NGV	\$0	\$494	\$0	\$494	\$0	\$0	\$0	\$0	\$0	\$494	
Total Margin Allocation w/o SI, w/FAR, FF&U, Seas	\$38,229	\$243,600	\$1,667	\$35,449	\$280,716	\$3,021	\$1,797	\$20,359	\$22,156	\$25,177	\$305,893
Total Margin Allocation w/o SI or Fuel Use, W/ FF&U as % total	79.6%	0.5%	11.6%	91.8%	1.0%	0.6%	6.7%	7.2%	8.2%	100.0%	

#2) Transition Adjustments by Year

2013 Transition Adjustment	\$0	\$0	\$0	\$0	\$42	(\$445)	\$403	(\$42)	(\$0)	(\$0)
2014 Transition Adjustment	\$0	\$0	\$0	\$0	\$28	(\$297)	\$269	(\$28)	(\$0)	(\$0)
2015 Transition Adjustment	\$0	\$0	\$0	\$0	\$14	(\$148)	\$134	(\$14)	(\$0)	(\$0)
2016 Transition Adjustment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2017 Transition Adjustment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2018 Transition Adjustment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019 Transition Adjustment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Amount of Adjustments to include in Proposal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

#3) Transition Adjustments Added to Customer Cost - output to Cost Alloc tab

Customer Related Costs	\$171,945	\$138	\$11,309	\$183,392	\$428	\$305	\$118	\$423	\$851	\$184,243
Medium Pressure Distribution Costs	\$55,487	\$382	\$16,750	\$72,618	\$1,095	\$740	\$430	\$1,170	\$2,265	\$74,884
High Pressure Distribution Costs	\$5,567	\$99	\$1,712	\$7,378	\$151	\$116	\$397	\$513	\$665	\$8,042
Backbone Transmission Costs	\$10,601	\$554	\$5,677	\$16,833	\$1,346	\$637	\$19,413	\$20,050	\$21,396	\$38,229
Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Storage - Borrego	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Storage - Load Balancing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NGV	\$0	\$494	\$0	\$494	\$0	\$0	\$0	\$0	\$0	\$494
Total Margin Allocation w/o SI, w/FAR, FF&U, Season Storage	\$243,600	\$1,667	\$35,449	\$280,716	\$3,021	\$1,797	\$20,359	\$22,156	\$25,177	\$305,893

Cost Allocation Model Results
2016 TCAP Phase II Rates

Procedure:

- #1) Input from Cost Allocation Tab
- #2) Transition Adjustments by Year
- #3) Transition Adjustments Added to Customer Cost -

	NCCI-D	NCCI-T	Total NCCI	EG Tier 1 Dist	EG Tier 2 Dist	EG Tier 1 Trans	EG Tier 2 Trans	EG Trans	Total EG	SOURCE
#1) Input from Cost Allocation Tab										
Customer Related Costs	\$347	\$81	\$428	\$276	\$42	\$29	\$76	\$105	\$423	Cost Allocation Tab
Medium Pressure Distribution Costs	\$1,095	\$0	\$1,095	\$740	\$430	\$0	\$0	\$0	\$1,170	Cost Allocation Tab
High Pressure Distribution Costs	\$151	\$0	\$151	\$116	\$397	\$0	\$0	\$0	\$513	Cost Allocation Tab
Backbone Transmission Costs	\$832	\$514	\$1,346	\$575	\$2,293	\$62	\$17,121	\$17,183	\$20,050	Cost Allocation Tab
Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Cost Allocation Tab
Storage - Borrego	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Cost Allocation Tab
Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Cost Allocation Tab
Storage - Load Balancing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Cost Allocation Tab
NGV	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	Cost Allocation Tab
Total Margin Allocation w/o SI, w/FAR, FF&U, Seas	\$2,426	\$595	\$3,021	\$1,706	\$3,162	\$91	\$17,197	\$17,288	\$22,156	
Total Margin Allocation w/o SI or Fuel Use, W/ FF&	0.8%	0.2%	1.0%	0.6%	1.0%	0.0%	5.6%	5.7%	7.2%	
#2) Transition Adjustments by Year										
										NCCI-D NCCI-T EG-T Tier 1
										17,168 2,071
2013 Transition Adjustment	\$0	\$42	\$42	(\$450)	(\$1,000)	\$5	\$1,403	\$1,408	(\$42)	0% 3% 0%
2014 Transition Adjustment	\$0	\$28	\$28	(\$300)	(\$667)	\$3	\$935	\$939	(\$28)	\$0 \$42 \$5
2015 Transition Adjustment	\$0	\$14	\$14	(\$150)	(\$333)	\$2	\$468	\$469	(\$14)	\$0 \$28 \$3
2016 Transition Adjustment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$14 \$2
2017 Transition Adjustment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0 \$0
2018 Transition Adjustment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0 \$0
2019 Transition Adjustment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0 \$0
Amount of Adjustments to include in Proposal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
#3) Transition Adjustments Added to Customer Co										
Customer Related Costs	\$347	\$81	\$428	\$276	\$42	\$29	\$76	\$105	\$423	
Medium Pressure Distribution Costs	\$1,095	\$0	\$1,095	\$740	\$430	\$0	\$0	\$0	\$1,170	
High Pressure Distribution Costs	\$151	\$0	\$151	\$116	\$397	\$0	\$0	\$0	\$513	
Backbone Transmission Costs	\$832	\$514	\$1,346	\$575	\$2,293	\$62	\$17,121	\$17,183	\$20,050	
Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Storage - Borrego	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Storage - Load Balancing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
NGV	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Total Margin Allocation w/o SI, w/FAR, FF&U, Seas	\$2,426	\$595	\$3,021	\$1,706	\$3,162	\$91	\$17,197	\$17,288	\$22,156	

Cost Allocation Model Results
2016 TCAP Phase II Rates

Transition Adjustments Toggle 0

Procedure:

#1) *Input from Cost Allocation Tab*
#2) *Transition Adjustments by Year*
#3) *Transition Adjustments Added to Customer Cost - output to Cost Alloc tab*

	Res	NGV	Core C&I	Total Core	Total NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total
Total Margin Allocation w/o SI or Fuel Use, W/ FF&U as % total	79.6%	0.5%	11.6%	91.8%	1.0%	0.6%	6.7%	7.2%	8.2%	100.0%

Cost Allocation Model Results
2016 TCAP Phase II Rates

Procedure:
 #1) *Input from Cost Allocation Tab*
 #2) *Transition Adjustments by Year*
 #3) *Transition Adjustments Added to Customer Cost -*

	<u>NCCI-D</u>	<u>NCCI-T</u>	<u>Total NCCI</u>	<u>EG Tier 1</u>	<u>EG Tier 2</u>	<u>EG Tier 1</u>	<u>EG Tier 2</u>	<u>EG</u>	<u>Total EG</u>	<u>SOURCE</u>
				<u>Dist</u>	<u>Dist</u>	<u>Trans</u>	<u>Trans</u>	<u>Trans</u>		
Total Margin Allocation w/o SI or Fuel Use, W/ FF&	0.8%	0.2%	1.0%	0.6%	1.0%	0.0%	5.6%	5.7%	7.2%	

**SDG&E Miscellaneous Inputs
2016 TCAP Phase II Rates**

Calculation of UnAccounted For Gas:

UAF Volumes Mth/yr	6,661	
System AYTP Mth/yr	1,236,000	Alloc Factors
% UAF	0.539%	
Citygate price \$/dth	\$4.05	
UAF \$/yr	\$2,697	

Sempra Utilities Retail CORE Commodity Weighted-Average-Cost-of-Gas (WACOG) for Purchases

Gas Cost \$/dth **\$4.05** Gas Cost TCAP

BTU Factor

1.0351 **Mbtu/cf** Demand FC
 1,018 Mbtu/mcf
 1 th = 100,000 BTUs
 1,000 Mth = 100,000MBTUs

Calculation of Brokerage Fee:

	TCAP	
Core Broker Fee Rate \$/th	\$0.00162	
Core AYTP Mth/yr	521,144	Alloc Factors
	\$843	
FFU	\$20	2.33%
Core Broker Fee w/FFU \$000	\$863	
Core Broker Fee Rate \$/th without FFU	\$0.00162	

Calculation of Company Use Other \$/therm:

Co Use Other usage (Mth)	640
WACOG \$/th	\$0.405
Co Use Transmission \$000	\$259

FFU Rates & Example Calculation:	SDGEGas	Source
Gross Revenue Billed	\$100.000	2012 GRC
Uncollectable	0.17400% \$0.170	2012 GRC
Franchise Rate	2.11040% \$2.110	2012 GRC
Net Revenue	\$97.719	
<hr/>		
if I want this net revenue	\$97.719	
Net to Gross= Gross Revenue/Net revenue =	102.3340%	
then I need to bill this amount	\$100.000	
If I bill this amount	\$100.00	
Gross-to-Net = Net Revenue/Gross Revenue	97.7193%	
then I will get this net revenue	\$97.719	
If I bill this amount	\$100.00	
Gross to Net = 1-(Net Revenue/Gross Revenue) =	2.2807%	
then I will get this net revenue	\$97.719	

**SDG&E Residential Rate Design
2016 TCAP Phase II Rates**

Procedure:

Calculate revenue from GR rate

Calculate BL rate given total revenue, BL & NBL volumes and NBL/BL ratio

RESULTS of Resid Rate:

	Customer Charge \$/mo	BL \$/th	NBL \$/th	Average Volumetric Rate \$/th	# Customers/Res Units of MM Cust	BL Volume mth/y	NBL Volume mth/yr	Total Volume mth/yr	Customer Charge \$000/yr	BL revenue \$000/yr	NBL Revenue \$000/yr	Total Volumetric Revenue \$000/yr	Total Revenue \$000/yr
Res (Schd GR)	\$10.00	\$0.33753	\$0.59753	\$0.42206	884,624	215,947	104,035	319,982	\$106,155	\$72,888	\$62,164	\$135,052	\$241,207
Submeter Credit \$/unit/day (Schd GS)				(\$0.38268)	5,870							(\$820)	(\$820)
Submeter Credit \$/unit/day (Schd GT)				(\$0.40932)	27,189							(\$4,062)	(\$4,062)
Borrego Revenue												\$69	\$69
Employee Discount (Schd GR)												(\$349)	(\$349)
SDFFD												\$1,092	\$1,092
CAT Adder				\$0.00000				2,764				\$0	\$0
CSITMA Adder				\$0.00112				258,048				\$288	\$288
Total Residential													\$237,425

Calculations

Source

Total Res Rev \$000		\$237,425		Cost Alloc
less CAT adder costs		\$0		Cost Alloc
less CSITMA adder costs		(\$288)		Cost Alloc
less Borrego \$000		(\$69)		Borrego
plus Employee Discount \$000		\$349		Recorded 2014
plus Submeter Credit GS		\$820		
plus Submeter Credit GT		\$4,062		
		\$242,299		
less SDFFD	0.451%	(\$1,092)		SDFFD
Vol. Rev from GR Rate		\$241,207		
BL Vols Mth/yr	67.5%	215,947		
NBL Vols Mth/yr		104,035		
GR Volumes Mth/yr		319,982		Alloc Factors
2013 TCAP Res Vols:				
BL		217,220	67.5%	Rate Tables
NBL		104,649	32.5%	Rate Tables
Total		321,869	100.0%	
Commodity Rate = \$/th		\$0.40492		Misc Inputs
total vols Mth/yr		319,982		
Commodity Rev		\$129,568		
Transport Rev		\$241,207		
Total rev		\$370,775		

NBL/BL Composite Rate Ratio	1.14	
BL rate w/commodity =	\$1.10698	$BL\ rate = 1 / ((BL\ Vol + (ratio * NBL\ vol)) * (1 / revenue))$
NBL rate w/commodity =	\$1.26615	$NBL\ rate = BL\ rate * ratio$
verify ratio	1.14	
BL rate w/o commodity =	\$0.70206	
NBL rate w/o commodity =	\$0.86123	
Verify Total Revenue:		
BL Revenue	\$151,608	
NBL Revenue	\$89,598	
	\$241,207	
plus CAT adder	\$0	
plus CSITMA adder	\$288	
plus Borrego	\$69	
less employee discount	(\$349)	
less Submeter Credit GS	(\$820)	
less Submeter Credit GT	(\$4,062)	
plus SDDFD	\$1,092	
total res reve	\$237,425	
verify revenue	\$0	

<u>Calculate Submeter Credit Revenues:</u>	<u>Sched GS, MultiFamily</u>	<u>Sched GT, Mobilehome</u>	
Based on Current Rate:			
Number of Res Units Behind Master Meter Customer	5,870	27,189	Recorded 2014
Number of Master Meter Customers	224	237	Recorded 2014
Number of Res Units per Master Meter Customer	26	115	
Number of Master Meter Customers-Forecast	224	237	Recorded 2014
Number of Res Units Behind Master Meter Customers-F	5,870	27,189	
Submeter Credit, \$/day/unit	(\$0.38268)	(\$0.40932)	2016TCAP Phase II SubMtr Cr Model
Number of days for subMeter CR =	365	365	
Submeter Credit Revenues \$000/yr =	(\$820)	(\$4,062)	

<u>Calculation of CAT Adder:</u>	<u>Source</u>
Costs allocated to Res class \$000	\$0
CAT Volumes Mth	2,764
	\$0.00000

<u>Calculation of CSITMA Adder, Decision 10-01-022 January 21, 2010</u>	<u>Source</u>
Costs allocated to Res class \$000	\$288
Non Care/FERA Res Volumes Mth/yr	258,048
	\$0.00112

Res Rates with Customer Charge

Calculate BL & NBL Rates based on targeted RATIO between NBL Rate & Composite Rate (including gas costs)

Calculate BL & NBL Rates based on a rate difference cap between NBL & BL rates (excluding gas costs)

Rates to be Used are those in the RATIO column, unless Difference CAP is exceeded in which case DIFFERENCE column is used.

Formulae:

$$NBL \text{ rate} = (RATIO * Composite \text{ Rate}) - Gas \text{ Rate}$$

$$Composite \text{ Rate} = ((Baseline \text{ Revenue} + Customer \text{ Charge Revenue} + SubMeter \text{ Credit})/Baseline \text{ Volumes}) + Gas \text{ Rate}$$

$$TR = (BLR * BLV) + (NBLR * NBLV) + CCR + SMCr$$

$$NBLR = (((BLR * BLV) + CCR + SMCr) * (1/BLV) + Gas \text{ Rate}) * RATIO - Gas \text{ Rate}$$

$$BLR = (TR - (NBLR * NBLV) - CCR - SMCr) * (1/BLV)$$

Base Line Rate calculation causes a CIRCULAR REFERENCE, this may be removed by copy/paste/values the BL rates

Rev from GR Rate	\$241,207
less Submeter Credit GT	(\$4,062)
less Submeter Credit GS	(\$820)
less Employee Discount \$000	(\$349)
plus Borrego \$000	\$69
Total	\$236,045

	DIFFERENCE	RATIO	Rates to Use	Sources
Base Line Rate \$/th = blr = (calculated)	\$0.33753	\$0.19983		
Base Line Rate \$/th= blr = (input in model)	\$0.33753	\$0.19983	\$0.33753	RES Rate/RUN (this is done to avoid circ ref)
Base Line Vols mth/yr = blv =	215,947	215,947	215,947	
Baseline Revenue \$000 =	\$72,888	\$43,153	\$72,888	

NBL rate based on NBL-BL Difference CAP:

Base Line Rate \$/th = blr =	\$0.33753
DIFFERENCE CAP	\$0.26000
NonBaseline Rate \$/th	\$0.59753

NBL rate based on NBL/Composite Ratio:

Composite Rate \$/th	\$1.12023		
Targeted RATIO	1.15		
Gas Rate \$/th =	\$0.40492		Misc Inputs
NonBaseline Rate \$/th	\$0.88335	\$0.59753	

NonBaseline Vols mth/yr= nbvlv =	104,035	104,035	104,035
NonBaseline Revenue \$000	\$62,164	\$91,899	\$62,164

Borego Springs	\$69	\$69	\$69
Emp Disc	(\$349)	(\$349)	(\$349)
Customer Charge revenue = ccr =	\$106,155	\$106,155	\$106,155
SubMeter Credit = sc =	(\$4,882)	(\$4,882)	(\$4,882)
Subtotal Revenue	\$236,045	\$236,045	\$236,045
Less SDFFD	\$0	\$0	\$0
Total Revenue	\$236,045	\$236,045	\$236,045
<i>target revenue</i>	<i>\$236,045</i>	<i>\$236,045</i>	<i>\$236,045</i>
	\$0	\$0	\$0

Difference between NBL and BL rate:

NBL Rate \$/th	\$0.59753	\$0.88335	\$0.59753
BL rate \$/th	\$0.33753	\$0.19983	\$0.33753
difference \$/th	\$0.26000	\$0.68352	\$0.26000

Effective NBL/Composite Ratio:

NBL Rate \$/th	\$0.59753	\$0.88335	\$0.59753	
Gas Rate \$/th =	\$0.40492	\$0.40492	\$0.40492	Misc Inputs
	\$1.00245	\$1.28827	\$1.00245	
Composite Rate \$/th	\$1.25793	\$1.12023	\$1.25793	
Effective Ratio	0.80	1.15	0.80	

Composite Rate:

Baseline Revenue \$000 =	\$72,888	\$43,153	\$72,888	
Customer Charge revenue = ccr =	\$106,155	\$106,155	\$106,155	
Borego Springs	(\$69)	(\$69)	(\$69)	
Employee Discount	\$349	\$349	\$349	
SubMeter Credit = sc =	\$4,882	\$4,882	\$4,882	
	\$184,204	\$154,469	\$184,204	
Base Line Vols mth/yr = blv =	215,947	215,947	215,947	
	\$0.85301	\$0.71531	\$0.85301	
Gas Rate \$/th =	\$0.40492	\$0.40492	\$0.40492	Misc Inputs
Composite Rate \$/th	\$1.25793	\$1.12023	\$1.25793	

**SDG&E
CALCULATION OF LNG SERVICE RATES
San Diego Gas & Electric**

	2014	2014	Present Rates		Proposed Rates		Change	Source
	Billing Months	Borrego Volumes (therms)	Rates \$/therm	Revenues \$'s	Rates \$/therm	Revenues \$'s		
WACOG			\$0.40492		\$0.40492			Misc Inputs Rate Tables Rate Tables
GR Baseline w/o WACOG			\$0.86716		\$0.33753			
GR NBL w/o WACOG			\$1.05344		\$0.59753			
GR Baseline w/wacog	3,257	42,283	\$1.27208	\$53,787	\$0.74245	\$31,393		
GR NBL w/wacog		20,366	\$1.45836	\$29,701	\$1.00245	\$20,416		
GR-LI BL	598	9,395	\$1.01766	\$9,561	\$0.59396	\$5,580		
GR-LI NBL		1,855	\$1.16669	\$2,164	\$0.80196	\$1,488		
GR total	3,855	73,899	\$1.28843	\$95,213		\$58,877	(\$36,337)	
GL-1 Facility Charge (\$/mo.)		3,855	<u>Present</u> \$14.79	\$57,017	<u>Proposed</u> \$14.79	\$57,017	0.0%	
GL-1 Surcharge \$/th		73,899	\$0.16571	\$12,245	\$0.16571	\$12,245	0.0%	
				\$69,262		\$69,262		
GL-1 Total				\$69,262		\$69,262	0.0%	
LNGSTA Tracking Acct Balance				\$0				
Grand Total (\$)				\$164,476		\$128,139		
divided by Gas Volumes				73,899		73,899		
= Average LNG Rate \$/therm				\$2.22568		\$1.73398		
%Change from Present Rates						-22.1%		
Grand Total (\$)				\$164,476		\$128,139		
divided by Billing Months				3,855		3,855		
= Average Gas LNG Service Bill \$/bill				\$42.67		\$33.24		
plus Electric Service Bill \$/bill				\$119.31		\$119.31	Electric FC	
= Total Service Bills \$/bill				\$161.98		\$152.55		
less All-Electric Service Bill for Borrego \$/bill				\$107.73		\$107.73	Electric FC	
Difference from All-Electric Bill				\$54.25		\$44.82		
%Change from All-Electric				50.4%		41.6%		
%Change, Total Bill				0.0%				

**SDG&E Core C&I Rates
2016 TCAP Phase II Rates**

Procedure

Calculate Customer Charge Revenue

Calculate Volumetric Revenue by Tiers

Volumetric revenue = Total Revenue less Customer Charge revenue
difference in rate tiers based on proportional difference in existing tiers

Results		Rate \$/mo or \$/th	# Customers	AYTP mth/yr	revenue \$000/yr	Source
Customer Charge		\$10.00	30,265		\$3,632	Alloc Factors
TIER 1	0-1000 th/mo	\$0.21448		82,658	\$17,729	
TIER 2	1001-21k th/mo	\$0.08958		84,219	\$7,544	
TIER 3	> 21k th/mo	\$0.05429		15,783	\$857	
Total Volumetric		\$0.14305		182,660	\$26,129	
Total Volumetric & Customer Charge		\$0.16293		182,660	\$29,761	
SDFFD					\$167	
Cat Adder \$/th		\$0.00000		35,463	\$0	Alloc Factors
CSITMA Adder \$/th		\$0.00112		182,649	\$204	Alloc Factors
Total CCI		\$0.16496		182,660	\$30,132	

Calculation of Volumetric Rates

	% difference from Tier 1	Forecast Vol Mth/yr	Vol Rate Base Margin Items \$/th	Vol Rev Base Margin Items \$000	Vol Rate NonBase Margin Items \$/th	Total Vol Rate \$/th	Total Vol Rev \$000	Source
Tier 1		82,658	\$0.22065	\$18,238	(\$0.00617)	\$0.21448	\$17,729	
Tier 2	43%	84,219	\$0.09574	\$8,063	(\$0.00617)	\$0.08958	\$7,544	
Tier 3	27%	15,783	\$0.06046	\$954	(\$0.00617)	\$0.05429	\$857	
		182,660		\$27,256		\$0.14305	\$26,129	

Total Allocated Base Margin Costs		\$30,981	
less customer charge revenue		<u>(\$3,632)</u>	
Plus Non-ECPT items		(\$93)	
Target Vol Rev \$000 =		\$27,256	
Vol revenue Check should be \$0		\$0	
Total Allocated Costs		\$30,132	Cost Alloc
less SDDFD	0.553%	<u>\$167</u>	
Subtotal Allocated Costs		\$29,965	
Total Allocated Base Margin Costs		\$30,981	Cost Alloc
Less CAT costs \$000		\$0	Cost Alloc
Less CSITMA Adder \$/th		<u>\$204</u>	Cost Alloc
Total Allocated NonBase Margin Costs		<u>(\$1,126)</u>	
Forecast AYTP Mth/yr		182,660	
Volumetric Rate for NonBaseMargin Items \$/th		<u>(\$0.00617)</u>	

Notes:

$Rate\ 1 = [((1 * volume1) + (1 * tier\ 2\ \% \ difference * Volume2) + (1 * tier\ 3\ \% \ difference * Volume3)) * (1 / volumetric\ revenue)]^{1/3}$

$Rate\ 2 = Rate\ 1 * \% \ difference\ from\ tier\ 1$

$Rate\ 3 = Rate\ 1 * \% \ difference\ from\ tier\ 1$

Volumetric rates are calculated in 2 parts:

part 1 = base margin less customer charge revenue and is spread amongst the tiers based on current rates.

part 2 = non base margin items and is the same rate for each tier.

Calculation of AYTP by Tier & Band Mth/year

	TIER 1 0-100 th/mo	TIER 2 101-250 th/mo	TIER 3 251-1k th/mo	TIER 4 1,001-4,167 th/mo	TIER 5 4,168-12,500 th/mo	TIER 6 12,501-21k th/mo	TIER 7 > 21k th/mo	TOTAL	Source
2010 Recorded Annual Data Normalized to AYTP HDD Mth/yr									
Band 1 0-100 th/yr	268	0	0	0	0	0	0	268	Recorded 2014
Band 2 101-300 th/yr	735	9	0	0	0	0	0	744	Recorded 2014
Band 3 301-3k th/yr	5,544	2,501	621	15	0	0	0	8,681	Recorded 2014
Band 4 3,001-12k th/yr	6,530	9,428	18,689	1,023	5	0	0	35,675	Recorded 2014
Band 5 12,001-50k th/yr	2,604	3,877	18,631	21,704	1,037	8	0	47,861	Recorded 2014
Band 6 50,001-250k th/yr	552	827	4,117	16,661	19,769	4,137	755	46,818	Recorded 2014
Band 7 > 250k th/yr	65	98	488	2,054	5,365	5,235	13,677	26,982	Recorded 2014
Therm Totals	16,299	16,740	42,546	41,456	26,176	9,380	14,433	167,030	

2010 Recorded Annual Data as % of Total

Band 1 0-100 th/yr	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Band 2 101-300 th/yr	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%
Band 3 301-3k th/yr	3.3%	1.5%	0.4%	0.0%	0.0%	0.0%	0.0%	5.2%
Band 4 3,001-12k th/yr	3.9%	5.6%	11.2%	0.6%	0.0%	0.0%	0.0%	21.4%
Band 5 12,001-50k th/yr	1.6%	2.3%	11.2%	13.0%	0.6%	0.0%	0.0%	28.7%
Band 6 50,001-250k th/yr	0.3%	0.5%	2.5%	10.0%	11.8%	2.5%	0.5%	28.0%
Band 7 > 250k th/yr	0.0%	0.1%	0.3%	1.2%	3.2%	3.1%	8.2%	16.2%
Therm Totals	9.8%	10.0%	25.5%	24.8%	15.7%	5.6%	8.6%	100.0%

Forecasted AYTP Mth/yr

Forecasted AYTP for CCI class th/yr 182,660 Alloc factors

Band 1 0-100 th/yr	293	0	0	0	0	0	0	293
Band 2 101-300 th/yr	804	10	0	0	0	0	0	814
Band 3 301-3k th/yr	6,063	2,735	679	16	0	0	0	9,493
Band 4 3,001-12k th/yr	7,141	10,310	20,438	1,119	6	0	0	39,014
Band 5 12,001-50k th/yr	2,848	4,240	20,375	23,735	1,134	8	0	52,340
Band 6 50,001-250k th/yr	604	905	4,502	18,220	21,619	4,524	826	51,199
Band 7 > 250k th/yr	71	107	533	2,246	5,867	5,725	14,957	29,507
Total Forecast AYTP Mth/yr	17,824	18,307	46,527	45,335	28,626	10,258	15,783	182,660

Combine Tiers 1+2+3; 4+5+6; 7

Total Forecast AYTP Mth/yr **82,658** **84,219** **15,783** **182,660**

Calculation of # Customers by Tier & Band

	TIER 1 0-100 th/mo	TIER 2 101-250 th/mo	TIER 3 251-1k th/mo	TIER 4 1,001-4,167 th/mo	TIER 5 4,168-12,500 th/mo	TIER 6 12,501-21k th/mo	TIER 7 > 21k th/mo	TOTAL	Source
# of Customer Bills/year in 2010									
Band 1 0-100 th/yr	47,935	0	0	0	0	0	0	47,935	Recorded 2014
Band 2 101-300 th/yr	41,397	300	4	0	0	0	0	41,701	Recorded 2014
Band 3 301-3k th/yr	51,862	26,745	5,295	43	0	0	0	83,945	Recorded 2014
Band 4 3,001-12k th/yr	1,951	4,337	56,727	3,362	5	0	0	66,382	Recorded 2014
Band 5 12,001-50k th/yr	208	217	2,952	21,886	892	1	0	26,156	Recorded 2014
Band 6 50,001-250k th/yr	8	5	47	717	3,728	859	163	5,527	Recorded 2014
Band 7 > 250k th/yr	1	1	0	3	10	59	578	652	Recorded 2014
Total # bills/year	143,362	31,605	65,025	26,011	4,635	919	741	272,298	

2010 Recorded Data as % of Total

Band 1 0-100 th/yr	17.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	17.6%
Band 2 101-300 th/yr	15.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	15.3%
Band 3 301-3k th/yr	19.0%	9.8%	1.9%	0.0%	0.0%	0.0%	0.0%	30.8%
Band 4 3,001-12k th/yr	0.7%	1.6%	20.8%	1.2%	0.0%	0.0%	0.0%	24.4%
Band 5 12,001-50k th/yr	0.1%	0.1%	1.1%	8.0%	0.3%	0.0%	0.0%	9.6%
Band 6 50,001-250k th/yr	0.0%	0.0%	0.0%	0.3%	1.4%	0.3%	0.1%	2.0%
Band 7 > 250k th/yr	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%
	52.6%	11.6%	23.9%	9.6%	1.7%	0.3%	0.3%	100.0%

Forecasted # Customers

Forecasted # Customers for CCI class 30,265 Alloc factors

Band 1 0-100 th/yr	5,328	0	0	0	0	0	0	5,328
Band 2 101-300 th/yr	4,601	33	0	0	0	0	0	4,635
Band 3 301-3k th/yr	5,764	2,973	589	5	0	0	0	9,330
Band 4 3,001-12k th/yr	217	482	6,305	374	1	0	0	7,378
Band 5 12,001-50k th/yr	23	24	328	2,433	99	0	0	2,907
Band 6 50,001-250k th/yr	1	1	5	80	414	95	18	614
Band 7 > 250k th/yr	0	0	0	0	1	7	64	72
Total Forecast # Customers	15,934	3,513	7,227	2,891	515	102	82	30,265

Combine Tiers 1+2+3; 4+5+6; 7

Total Forecast # Customers 26,674 3,508 82 30,265

**SDGE NGV Rate Design
2016 TCAP Phase II Rates**

Procedure:

Rates based on allocated costs divided by AYTP.

SW rate based on combined allocated costs divided by combined AYTP.

Calculation of Costs Allocated to NGV:

		Source
NGV Revs on a Pre-Semprawide Basis	\$1,060	Cost Alloc
Less Compression Costs	\$494	Cost Alloc
Less SDDFD	0.255% \$3	
Less CSITMA Adder \$/th	\$13	Cost Alloc
Total Transport Rev	\$550	

Pre SW Calculation of Compression Adder Rate:

EC Compression Costs	\$494	
Compression Volumes mth/yr	744	2016 TCAP Phase II Compression Rate Adder Model
Pre SW Compression Adder Rate \$/th	\$0.66418	

Calculation of Customer Charge Revenue:

	P-1	P-2A	Total	Source
# Customers	28	10	38	NGV Dept FC 12-18-2007/ Alloc Factors
Customer Charge \$/mo	\$13.00	\$65.00	\$26.57	
Customer Charge Revenue \$000	\$4	\$8	\$12	

Pre-SW Calculation of NGV Transportation Rate:

		Source
Total Transport Rev Stand Alone	\$550	
Less Customer Charge revenue \$000/yr	\$12	
Volumetric Revenue \$000/yr	\$538	
Transportation volumes mth/yr	18,501	Alloc Factors
Pre-SW NGV Transportation Rate \$/th	\$0.02906	

Post SW Rates:

	Uncompressed	Compressed	Total	
SW Volumetric Rate w/FFU \$/th	\$0.07514	\$1.03712	\$0.11235	Run Tab - SCG RD model/NGV Rates
AYTP Mth/yr	18,501	744	19,246	
SW Volumetric Revenue w/FFU \$000	\$1,390	\$772	\$2,162	
plus Customer Charge Revenue w/FFU	\$12		\$12	
Post SW Revenue w/FFU	\$1,402	\$772	\$2,175	
Pre SW Revenue w/FFU	\$550	\$494	\$1,044	
SW Adjustment w/FFU	\$853	\$278	\$1,130	

**SDG&E Residential NGV Rates
2016 TCAP Phase II Rates**

Results of Res Data:	Rate	# Res Customers with Fuel Maker	AYTP Mth/yr	Revenue \$000/yr
Customer Charge \$/mo	\$5.00	885		\$53
Volumetric Rate \$/th	\$0.21144		969	\$205
				<u>\$258</u>

Calculation of Total Revenue from Res Customers with FM:		Source
Res Transport Rev Req w/SI, FFU, EOR Cr w/o FAR Rev, TLS \$000/yr	\$237,425	Cost Alloc
# Res Customers	884,624	Alloc Factors
Residential Cost = \$/Customer/year	\$268	
Additional cost for FM = \$/customer/year	\$100	
Total cost for Res customer with FM = \$/customer/yr	\$368	
Total # FM customers	885	
Total Revenue from Res Customers with FM=\$000	\$326	
# Res Customers with FM	885	
Customer Charge = \$/mo	\$5.00	
Customer Charge Revenue = \$000/yr	\$53	
Volumetric Revenue from Res Customers with FM=\$000	\$273	
Total Mth/year of Res Customers with FM=Mth/yr	1,289	
Vol Transport Rate for Res Customer with FM=\$/th	\$0.21144	

Calculation of Total Mth/year of Res Customers with Fuel Maker ("FM"):		Source
Average Residential Th/year:		
Total Residential AYTP=Mth/yr	319,982	Alloc Factors
# Residential Customer	884,624	Alloc Factors
Average Residential Th/year	362	
Additional Th/year for FM:		
Total Fuel Maker Mth/yr	969	
Total # Fuel Maker customers	885	
Additional Th/year for Fuel Maker	1,096	
Total Th/year for Res Customer with FM = th/yr	1,457	
Total # FM customers	885	
Total Mth/year of Res Customers with FM=Mth/yr	1,289	

Calculation of FM therms/year and # FM Customers:		Source
FM Usage Per Day Per Home (therm/day)	3.01	Recorded 2014
x avg #days/month	30.3	
FM Usage Per Day Per Home (therm/day)	91.3	
Total # Res Customers	884,624	Alloc Factors
% of Res. Households Having NGV refueling at home	0.1%	Represents % of all residential households; results robust in 0-5% range.
Total # FM customers	885	
Total FM Mth/yr	969	
Daily FM volume	2.7	
Monthly FM volume	81	

Calculation of Additional cost for FM = \$/customer/year:

Additional cost for FM Source

Incremental Customer Costs \$000/yr

One Time Billing System Costs \$000	\$100	
Amortization period = years	5	
Incremental Customer Costs \$000/yr	\$20	

Incremental MPD Costs \$000/yr

Res CYPD Mth/d	2,912	Alloc Factors
FM Est Peak Day Mth/d	2.7	
FM CYPD as % Res CYPD	0.09%	
Res MPD Costs \$000	\$55,487	Cost Allocation
Total MPD Costs \$000	\$51	

Incremental HPD Costs \$000/yr

Res CYPM Mth/mo	51,533	Alloc Factors
FM Est Peak Day Mth/d:		
FM Est CYPM Mth/mo	81	
FM CYPM as % Res CYPM	0.16%	
Res HPD Costs \$000	\$5,567	Cost Allocation
Total HPD Costs (\$1,000)	\$9	

Incremental BBT Costs for FM \$000/yr

Res CYTP Mth/yr	w/SI	
Res CYTP Mth/yr	354,198	Alloc Factors
FM Est Peak CYTP Mth/d	969	Use AYTP of FM market
FM CYTP as % Res CYTP	0.27%	
Res BBT Costs w/SI \$000	\$0	Cost Allocation
Incremental BBT Costs \$000	\$0	

Incremental Local-T Costs for FM \$000/yr:

Res CYPM Mth/mo	51,533	Alloc Factors
FM Est CYPM Mth/mo	81	Use AYTP of FM market
FM CYPM as % Res CYPM	0.16%	
Res Local-T Costs w/SI \$000	\$3,058	Cost Allocation
Incremental Local-T costs \$000	\$5	

Incremental Storage Costs - Seasonal for FM \$000/yr:

Res CYPD Mth/d	2,912	Alloc Factors
FM Est Peak Day Mth/d:		
FM Est Peak Day Mth/d	2.7	
FM Peak Day as % Res Peak Day	0.09%	
Res Stoarage Costs - Seasonal \$000	\$0	Cost Allocation
Storage Costs - Seasonal for FM \$000	\$0	

Incremental Storage Costs - Load Balancing for FM \$000/yr:

Res AYTP Mth/y	319,982	Alloc Factors
FM Est AYTP Mth/y	969	
FM Peak Day as % Res Peak Day	0.30%	
Res Stoarage Costs - Load Balancing \$000	\$0	Cost Allocation
Storage Costs - Load Balancing for FM \$000	\$0	

Incremental Co Use Transmission for FM \$000/yr:

FM Est AYTP Mth/y	969	
Co Use Trans rate as % of end use	0.000%	Misc Input
CoUse Trans for FM Mth/yr	0	
WACOG \$/dth	\$4.05	Misc Input
Co Use Transmission for FM \$000/yr	\$0	

Incremental UAF for FM \$000/yr:

FM Est AYTP Mth/y	969	
UAF rate as % of end use	0.539%	Misc Input
UAF for FM Mth/yr	5	
WACOG \$/dth	\$4.05	Misc Input
UAF for FM \$000/yr	\$2	

Incremental Transport Rev Req w/Sl, w/oFFU \$000/yr	\$86	
FFU Rate	102.33%	Cost Allocation
Incremental Transport Rev Req w/Sl, FFU \$000/yr	\$88	
# FM Customers	885	
Additional cost for FM = \$/customer/year	\$100	

SDG&E NonCore C&I Distribution Rates
2016 TCAP Phase II Rates

Procedure

Calculate customer charge revenue.
 Calculate total volumetric revenue.

	TOTAL	Source
Customer Charge Revenue \$000/yr:		
Forecast # Customers	42	NCCI Detail Alloc
Customer Chare \$/mo	\$350.00	
Customer Charge Revenue \$000/yr	<u>\$177</u>	
Calculation of Total Volumetric Revenue \$000:		
Total Costs Allocated to NCCI-D class \$000/yr	\$462	NCCI Detail Alloc
Less Customer Charge Revenue \$000	\$177	
Less CSITMA Adder \$/th	<u>\$28</u>	NCCI Detail Alloc
Volumetric Revenue \$000	\$257	
AYTP NCCI-D Mth/yr	<u>27,807</u>	NCCI Detail Alloc
Volumetric Rate \$/th	<u>\$0.00925</u>	
Total Revenue \$000	\$462	
Average Rate \$/th	\$0.01663	



SDG&E EG-D Rates
2016 TCAP Phase II Rates

Procedure

Allocate costs between EG customers on Distribution and those on Transmission
 Send EG-Transmission costs to SCG model for Local-T SFV & Vol calculations
 Calculate EG-Distribution Customer Charge Revenue
 Calculate EG-Distribution volumetric Revenue
 Calculate EG-Distribution Volumetric rates

Summary of EG Distribution Rates:	Pre Sempra Wide Rates			Post Sempra Wide Rates		
	Mth/yr	Rate \$/th	\$000's	Mth/yr	Rate \$/th	\$000's
EFBA Exempt Rates:						
EG Distribution Tier 1:						
Customer Charge	46	\$50.00	\$28	46	\$50.00	\$28
Volumetric Rate (excl ITCS)	19,210	\$0.01433	\$275	19,210	\$0.08460	\$1,625
	19,210	\$0.01578	\$303	19,210	\$0.08604	\$1,653
EG Distribution Tier 2						
Customer Charge	7	\$0.00	\$0	7	\$0.00	\$0
Volumetric Rate	76,596	(\$0.00057)	(\$44)	76,596	\$0.03085	\$2,363
	76,596	(\$0.00057)	(\$44)	76,596	\$0.03085	\$2,363
EG Distribution EFBA Exempt Customers	95,807	\$0.00270	\$259	95,807	\$0.04192	\$4,016
EFBA Non-Exempt Rates:						
EFBA Cost Adder	88,669	(\$0.00004)	(\$4)	88,669	(0.00004)	(\$4)
EG-Distribution Tier 1 w/EFBA Adder		\$0.01429			0.08456	
EG-Distribution Tier 2 w/EFBA Adder		(\$0.00062)			0.03081	
Total EG Distribution Level	95,807	\$0.00267	\$255	95,807	\$0.04188	\$4,012

Calculation of Pre SemptraWide EG-D Rate Excl EFBA	EG-D Tier 1	EG-D Tier 2	Total	Source
AYTP mth/yr	19,210	76,596	95,807	Cost Alloc
Total revenue \$000/yr	\$302	(\$47)	\$255	Cost Alloc
Less: AB32 Admin Fees	\$1	\$3	\$4	AB 32 Admin Fees
Total revenue \$000/yr	\$303	(\$44)	\$259	
total rate net of AB 32 Admin Fee Incl Cust Chg \$/th	\$0.01578	(\$0.00057)	\$0.00270	
Customer Charge:				
Total Customers	46	7	53	Cost Alloc
Customer Charge	\$50.00	\$0.00		
Customer Charge Rev \$000/yr	\$28	\$0	\$28	
Volumetric Rate:				
Total revenue \$000/yr	\$303	(\$44)	\$259	
Less Customer Charge \$000/yr	\$28	\$0	\$28	
Volumetric Revenue \$000/yr	\$275	(\$44)	\$231	
Volumetric Rate /th	\$0.01433	(\$0.00057)	\$0.00241	

Post SW Rates:

SW Volumetric Rate w/FFU \$/th	\$0.08460	\$0.03085		SCG RD model/EG-D Rates
AYTP Mth/yr	19,210	76,596	95,807	
SW Volumetric Revenue \$000	\$1,625	\$2,363	\$3,988	
plus Customer Charge Revenue \$000	\$28	\$0	\$28	
plus AB32 Admin Fee				
Post-SW Total Revenue \$000	\$1,653	\$2,363	\$4,016	
Pre-SW Total Revenue \$000	\$303	(\$44)	\$259	
SW Adjustment \$000	\$1,350	\$2,407	\$3,757	
Post-SW Total Revenue \$000	\$1,653	\$2,363	\$4,016	
AYTP Mth/yr	19,210	76,596	95,807	
Post SW Average Rate \$/th	\$0.08604	\$0.03085	\$0.04192	

EFBA amounts \$000 (\$1) (\$3) (\$4)

SUMMARY of Pre & Post SW revenue & rates w/FFU w/EFBA:

Pre SW Total Revenue Tier 1 & 2 w/FFU \$000	\$302	(\$47)	\$255
Post SW Total Revenue Tier 1 & 2 w/FFU \$000	\$1,652	\$2,360	\$4,012
Total SW Adjustment w/FFU \$000	\$1,350	\$2,407	\$3,757

Calculation of EFBA fee

				Source
Costs allocated to EG class \$000	(\$1)	(\$3)	(\$4)	EG Detail Alloc
EG Non-Exempt Volumes Mth/yr	17,633	71,035	88,669	EG Detail Alloc
Cost Adder for Non-Exempt EG-D Customers	(\$0.00004)	(\$0.00004)	(\$0.00004)	

**San Diego Gas & Electric
City of San Diego Franchise Fee Differential
Development of Annual Gas Percentage Factors**

AP Phase II Rates

A	2014 Revenue				SDFFD FACTOR
	City of San Diego		Total System		
	Applicable SD Revs b/	SDFFD Revenues	w/o SDFFD a/	with SDFFD	
	B	C	D	E	F
	(in 000s)	(in 000s)	(in 000s)	(in 000s)	
Schedule		1.030% c/			
Single Family (GR)	\$89,734	\$924	\$209,621	\$210,546	0.441%
Single Family Low Income (GR-LI)	\$18,652	192	\$43,550	\$43,742	0.441%
Multi Family (GM/GS/GT)	\$24,664	254	\$50,324	\$50,578	0.505%
LNG Fac. Chg. (GL-1)	\$0	-	\$66	\$66	0.000%
Res Aggreg Trans (GTAGTC)	\$489	5	\$1,521	\$1,526	0.331%
Total Core Residential	\$133,539	\$1,375	\$305,082	\$306,458	0.451%
Small Commercial (GN-1\3)	\$54,940	566	\$102,347	\$102,913	0.553%
NGV Vehicles (NGV)	\$926	10	\$3,734	\$3,744	0.255%
Comm Aggreg Trans (GTARC)	\$4,558	47	\$7,768	\$7,815	0.604%
Total Core Commercial	\$60,424	\$622	\$113,850	\$114,472	0.547%
TOTAL CORE	\$193,963	\$1,998	\$418,932	\$420,930	0.477%
Noncore Noncogen Com. (GPNC)	\$399	4	\$400	\$404	1.028%
Power Plant	\$0	-	\$7,677	\$7,677	0.000%
NonCogen Trans. (GTNC)	\$1,723	18	\$2,554	\$2,571	0.695%
Cogen Trans. (GTCGEG) (excl. Rosarito)	\$3,432	35	\$6,468	\$6,503	0.547%
TOTAL NONCORE	\$5,554	\$57	17,099	\$17,156	0.335%
TOTAL GAS	\$199,517	\$2,055	\$436,030	\$438,085	0.471%

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	Res	NGV	Core C&I	Total Core
Embedded Costs:				
Customer Related Costs	\$143,597	\$41	\$9,444	\$153,082
Medium Pressure Distribution Costs	\$80,399	\$840	\$23,158	\$104,397
High Pressure Distribution Costs	\$9,086	\$97	\$2,687	\$11,870
Backbone Transmission Costs	\$8,806	\$282	\$4,590	\$13,678
Local Transmission Costs	\$0	\$0	\$0	\$0
Storage - Borrego	\$0	\$0	\$0	\$0
Core Seasonal Storage	\$0	\$0	\$0	\$0
Storage - Load Balancing	\$0	\$0	\$0	\$0
NGV	\$0	\$242	\$0	\$242
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU	\$241,887	\$1,502	\$39,879	\$283,269
Less Backbone Transmission Costs	(\$8,806)	(\$282)	(\$4,590)	(\$13,678)
Less Local Transmission Costs	\$0	\$0	\$0	\$0
Plus Local Transmission Costs w/SI,FFU	\$2,552	\$47	\$958	\$3,556
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU	\$235,634	\$1,266	\$36,247	\$273,147

<u>Other Operating Costs and Revenues</u>	Non-ECPT?	Add FFU Y or N?	Amount to Allocate (w/o F&U)				
SCG Transport excl Core Storage & Load Balance \$000		Y	\$8,486	\$2,272	\$81	\$1,253	\$3,606
SCG Core Seasonal Storage		Y	\$5,814	\$4,510	\$16	\$1,424	\$5,950
SCG Load Balancing Allocated to ALL SDGE \$000		Y	\$1,391	\$372	\$13	\$205	\$591
n/a							
LUAF		Y	\$6,298	\$2,396	\$85	\$1,322	\$3,803
Company Use Gas: Other		Y	\$103	\$28	\$1	\$15	\$44
AMI rev req incl FF&U AL 1693-G	Y	Y	\$0	\$0	\$0	\$0	\$0
AB32 Fees (subtracted from base margin and allocated here)		Y	\$539	\$236	\$8	\$130	\$375
Subtotal Other Operating Costs and Revenues			\$22,632	\$9,813	\$204	\$4,350	\$14,368

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total
Embedded Costs:						
Customer Related Costs	\$617	\$332	\$236	\$568	\$1,184	\$154,267
Medium Pressure Distribution Costs	\$1,346	\$591	\$618	\$1,209	\$2,555	\$106,952
High Pressure Distribution Costs	\$212	\$137	\$740	\$878	\$1,089	\$12,959
Backbone Transmission Costs	\$958	\$1,192	\$15,645	\$16,837	\$17,796	\$31,473
Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0
Storage - Borrego	\$0	\$0	\$0	\$0	\$0	\$0
Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$0
Storage - Load Balancing	\$0	\$0	\$0	\$0	\$0	\$0
NGV	\$0	\$0	\$0	\$0	\$0	\$242
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU	\$3,132	\$2,253	\$17,239	\$19,492	\$22,624	\$305,893
Less Backbone Transmission Costs	(\$958)	(\$1,192)	(\$15,645)	(\$16,837)	(\$17,796)	(\$31,473)
Less Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0
Plus Local Transmission Costs w/SI,FFU	\$156	\$102	\$2,783	\$2,885	\$3,041	\$6,597
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU	\$2,330	\$1,162	\$4,377	\$5,539	\$7,870	\$281,017

Other Operating Costs and Revenues							F&U Amount \$000	Total Allocated \$000
SCG Transport excl Core Storage & Load Balance \$000	\$273	\$340	\$4,465	\$4,805	\$5,079	\$8,684	\$198	\$8,486
SCG Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$5,950	\$136	\$5,814
SCG Load Balancing Allocated to ALL SDGE \$000	\$45	\$56	\$732	\$788	\$833	\$1,424	\$32	\$1,391
n/a								
LUAF	\$142	\$177	\$2,323	\$2,500	\$2,643	\$6,445	\$147	\$6,298
Company Use Gas: Other	\$3	\$4	\$54	\$59	\$62	\$106	\$2	\$103
AMI rev req incl FF&U AL 1693-G	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AB32 Fees (subtracted from base margin and allocated here)	\$28	\$29	\$119	\$149	\$177	\$552	\$13	\$539
Subtotal Other Operating Costs and Revenues	\$492	\$606	\$7,694	\$8,301	\$8,793	\$23,161	\$528	\$22,632

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	Source	Allocation	Allocation %						
			Total System	Res	NGV	Core C&I	Total Core	NCCI	EG <3 mmth/yr
Embedded Costs:									
Customer Related Costs	EC Model	0							
Medium Pressure Distribution Costs	EC Model	0							
High Pressure Distribution Costs	EC Model	0							
Backbone Transmission Costs	EC Model	0							
Local Transmission Costs	EC Model	0							
Storage - Borrego	EC Model	0							
Core Seasonal Storage	EC Model	0							
Storage - Load Balancing	EC Model	0							
NGV	EC Model	0							
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU									
Less Backbone Transmission Costs									
Less Local Transmission Costs									
Plus Local Transmission Costs w/SI,FFU	SCG/ SI & FAR								
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU									
Other Operating Costs and Revenues									
SCG Transport excl Core Storage & Load Balance \$000	SCG RD Model/RUN	ECPT	100.0%	26.2%	0.9%	14.4%	41.5%	3.1%	3.9%
SCG Core Seasonal Storage	SCG RD Model/RUN	% CYPD MP Res & CCI	100.0%	75.8%	0.3%	23.9%	100.0%	0.0%	0.0%
SCG Load Balancing Allocated to ALL SDGE \$000	SCG RD Model/RUN	ECPT	100.0%	26.2%	0.9%	14.4%	41.5%	3.1%	3.9%
n/a									
LUAF	Misc Inputs	Method #3 - 59% core @ ECPT / 41%	100.0%	37.2%	1.3%	20.5%	59.0%	2.2%	2.7%
Company Use Gas: Other	Misc Inputs	ECPT	100.0%	26.2%	0.9%	14.4%	41.5%	3.1%	3.9%
AMI rev req incl FF&U AL 1693-G	Misc Inputs, AL 1693-G	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%
AB32 Fees (subtracted from base margin and allocated here)		ECPT AB32 Fee Non-Exempt	100.0%	42.8%	1.5%	23.6%	67.9%	5.2%	5.3%
Subtotal Other Operating Costs and Revenues									

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	EG>=3 mmth/yr	Total EG	Total NonCore
Embedded Costs:			
Customer Related Costs			
Medium Pressure Distribution Costs			
High Pressure Distribution Costs			
Backbone Transmission Costs			
Local Transmission Costs			
Storage - Borrego			
Core Seasonal Storage			
Storage - Load Balancing			
NGV			
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU			
Less Backbone Transmission Costs			
Less Local Transmission Costs			
Plus Local Transmission Costs w/SI,FFU			
<hr/> <hr/>			
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU			
<hr/> <hr/>			
Other Operating Costs and Revenues			
SCG Transport excl Core Storage & Load Balance \$000	51.4%	0.0%	58.5%
SCG Core Seasonal Storage	0.0%	0.0%	0.0%
SCG Load Balancing Allocated to ALL SDGE \$000	51.4%	0.0%	58.5%
n/a			
LUAF	36.0%	38.8%	41.0%
Company Use Gas: Other	51.4%	0.0%	58.5%
AMI rev req incl FF&U AL 1693-G	1.6%	0.0%	2.8%
AB32 Fees (subtracted from base margin and allocated here)	21.6%	26.9%	32.1%
<hr/>			
Subtotal Other Operating Costs and Revenues			

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's				Res	NGV	Core C&I	Total Core
Regulatory Accounts							
Adv Mtring Infrastructure Balancing Acct AMIBA	Y	Y	\$0	\$0	\$0	\$0	\$0
On-Bill Financing Balancing Account (OBFBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Baseline Balance BA		Y	\$0	\$0	\$0	\$0	\$0
CFCA -Margin Only		Y	\$52,053	\$33,561	\$1,190	\$18,516	\$53,268
CFCA -Nonmargin Other		Y	(\$574)	(\$370)	(\$13)	(\$204)	(\$588)
CFCA -Nonmargin SCG		Y	(\$1,352)	(\$872)	(\$31)	(\$481)	(\$1,384)
Environmental Fee Balance Account EFBA		Y	\$0	\$0	\$0	\$0	\$0
Disconnect Memorandum Account (DMA)		Y	\$0	\$0	\$0	\$0	\$0
Distribution Integrity Management Program Memorandum Account (DIMPBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Transmission Integrity Management Program Memorandum Account (TIMPBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
FERC Settlement Proceeds MA		Y	\$0	\$0	\$0	\$0	\$0
Core Gas Storage Balancing Acct. GSBA-C		Y	\$0	\$0	\$0	\$0	\$0
Hazardous Substance Cleanup Cost Acct HSCCA		Y	\$1,374	\$368	\$13	\$203	\$584
Master Meter Balancing Account (MMBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Natural Gas Supp Refund Track Acct		Y	\$0	\$0	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount		Y	(\$569)	(\$249)	(\$9)	(\$138)	(\$396)
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	Y	Y	\$508	\$436	\$2	\$67	\$505
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	Y	Y	(\$1,184)	(\$1,016)	(\$5)	(\$156)	(\$1,177)
NFCA -Margin Only	Y	Y	(\$4,202)	\$0	\$0	\$0	\$0
NFCA -Nonmargin Other		Y	(\$604)	\$0	\$0	\$0	\$0
NFCA -Nonmargin SCG		Y	(\$5,601)	\$0	\$0	\$0	\$0
NGVA		Y	\$0	\$0	\$0	\$0	\$0
Non-Core Gas Storage Balancing Acct GSBA-NC		Y	\$0	\$0	\$0	\$0	\$0
PBOPBA	Y	Y	(\$436)	(\$374)	(\$2)	(\$58)	(\$434)
Pension BA	Y	Y	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission		Y	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmission		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBA) - Local Transmission		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBA) - Distribution		Y	\$0	\$0	\$0	\$0	\$0
RD&D 1-Way Bal Acct (Pre-2001)		Y	\$0	\$0	\$0	\$0	\$0
Rewards & Penalties Bal Acct RPBA	Y	Y	\$1,110	\$953	\$5	\$147	\$1,105
Self Gen Memo Acct - SGPMA-CSI	Y	Y	\$0	\$0	\$0	\$0	\$0
Self Gen Memo Acct - SGPMA-NonCSI	Y	Y	\$0	\$0	\$0	\$0	\$0
SGPMA - Rev Req for NEXT Year	Y	Y	\$770	\$661	\$4	\$102	\$766
Gain/Loss on Sale Memo Acct GLOSMA	Y	Y	\$0	\$0	\$0	\$0	\$0
Integrated Transmission Margin ITBA		Y	\$446	\$128	\$4	\$67	\$198
Integrated Transmission Nonmargin ITBA		Y	\$0	\$0	\$0	\$0	\$0
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	Y	N	\$19,627	\$16,458	\$88	\$2,532	\$19,078

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total		
Regulatory Accounts								
Adv Mtring Infrastructure Balancing Acct AMIBA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
On-Bill Financing Balancing Account (OBFBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Baseline Balance BA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CFCA -Margin Only	\$0	\$0	\$0	\$0	\$0	\$53,268	\$1,215	\$52,053
CFCA -Nonmargin Other	\$0	\$0	\$0	\$0	\$0	(\$588)	(\$13)	(\$574)
CFCA -Nonmargin SCG	\$0	\$0	\$0	\$0	\$0	(\$1,384)	(\$32)	(\$1,352)
Environmental Fee Balance Account EFBA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Disconnect Memorandum Account (DMA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Distribution Integrity Management Program Memorandum Account (DIMPBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Transmission Integrity Management Program Memorandum Account (TIMPBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FERC Settlement Proceeds MA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Core Gas Storage Balancing Acct. GSBA-C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hazardous Substance Cleanup Cost Acct HSCCA	\$44	\$55	\$723	\$778	\$822	\$1,406	\$32	\$1,374
Master Meter Balancing Account (MMBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Natural Gas Supp Refund Track Acct	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccour	(\$30)	(\$31)	(\$126)	(\$157)	(\$187)	(\$583)	(\$13)	(\$569)
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	\$4	\$2	\$8	\$10	\$15	\$520	\$12	\$508
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	(\$10)	(\$5)	(\$19)	(\$24)	(\$34)	(\$1,211)	(\$28)	(\$1,184)
NFCA -Margin Only	(\$1,273)	(\$635)	(\$2,391)	(\$3,027)	(\$4,300)	(\$4,300)	(\$98)	(\$4,202)
NFCA -Nonmargin Other	(\$33)	(\$41)	(\$544)	(\$585)	(\$619)	(\$619)	(\$14)	(\$604)
NFCA -Nonmargin SCG	(\$309)	(\$384)	(\$5,039)	(\$5,423)	(\$5,732)	(\$5,732)	(\$131)	(\$5,601)
NGVA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Non-Core Gas Storage Balancing Acct GSBA-NC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PBOPBA	(\$4)	(\$2)	(\$7)	(\$9)	(\$12)	(\$446)	(\$10)	(\$436)
Pension BA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmissior	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBBA) - Local Transmission	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBBA) - Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RD&D 1-Way Bal Acct (Pre-2001)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rewards & Penalties Bal Acct RPBA	\$9	\$5	\$18	\$22	\$32	\$1,136	\$26	\$1,110
Self Gen Memo Acct - SGPMA-CSI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Self Gen Memo Acct - SGPMA-NonCSI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SGPMA - Rev Req for NEXT Year	\$7	\$3	\$12	\$16	\$22	\$788	\$18	\$770
Gain/Loss on Sale Memo Acct GLOSMA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Integrated Transmission Margin ITBA	\$14	\$17	\$227	\$244	\$258	\$456	\$10	\$446
Integrated Transmission Nonmargin ITBA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	\$163	\$81	\$306	\$387	\$550	\$19,627	\$0	\$19,627

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	Source	Allocation	Allocation %							
			Total System	Res	NGV	Core C&I	Total Core	NCCI	EG <3 mmth/yr	
Regulatory Accounts										
Adv Mtring Infrastructure Balancing Acct AMIBA	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
On-Bill Financing Balancing Account (OBFBA)	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
Baseline Balance BA	Reg. Acct Filing 10/2014	100% Res	100.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	
CFCA -Margin Only	Reg. Acct Filing 10/2014	ECPT-Core	100.0%	63.0%	2.2%	34.8%	100.0%	0.0%	0.0%	
CFCA -Nonmargin Other	Reg. Acct Filing 10/2014	ECPT-Core	100.0%	63.0%	2.2%	34.8%	100.0%	0.0%	0.0%	
CFCA -Nonmargin SCG	Reg. Acct Filing 10/2014	ECPT-Core	100.0%	63.0%	2.2%	34.8%	100.0%	0.0%	0.0%	
Environmental Fee Balance Account EFBA	Reg. Acct Filing 10/2014	ECPT AB32 Fee Non-Exempt	100.0%	42.8%	1.5%	23.6%	67.9%	5.2%	5.3%	
Disconnect Memorandum Account (DMA)	Reg. Acct Filing 10/2014	100% Res	100.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	
Distribution Integrity Management Program Memorandum Account (DIMPBA)	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
Transmission Integrity Management Program Memorandum Account (TIMPBA)	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
FERC Settlement Proceeds MA	Reg. Acct Filing 10/2014	CAT allocation	100.0%	1.0%	0.0%	99.0%	100.0%	0.0%	0.0%	
Core Gas Storage Balancing Acct. GSBA-C	Reg. Acct Filing 10/2014	ECPT-Core	100.0%	63.0%	2.2%	34.8%	100.0%	0.0%	0.0%	
Hazardous Substance Cleanup Cost Acct HSCCA	Reg. Acct Filing 10/2014	ECPT	100.0%	26.2%	0.9%	14.4%	41.5%	3.1%	3.9%	
Master Meter Balancing Account (MMBA)	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
Natural Gas Supp Refund Track Acct	Reg. Acct Filing 10/2014	ECPT	100.0%	26.2%	0.9%	14.4%	41.5%	3.1%	3.9%	
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount	Reg. Acct Filing 10/2014	ECPT AB32 Fee Non-Exempt	100.0%	42.8%	1.5%	23.6%	67.9%	5.2%	5.3%	
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
NFCA -Margin Only	Reg. Acct Filing 10/2014	EPAM Noncore Only	100.0%	0.0%	0.0%	0.0%	0.0%	29.6%	14.8%	
NFCA -Nonmargin Other	Reg. Acct Filing 10/2014	ECPT-Noncore	100.0%	0.0%	0.0%	0.0%	0.0%	5.4%	6.7%	
NFCA -Nonmargin SCG	Reg. Acct Filing 10/2014	ECPT-Noncore	100.0%	0.0%	0.0%	0.0%	0.0%	5.4%	6.7%	
NGVA	Reg. Acct Filing 10/2014	ECPT	100.0%	26.2%	0.9%	14.4%	41.5%	3.1%	3.9%	
Non-Core Gas Storage Balancing Acct GSBA-NC	Reg. Acct Filing 10/2014	ECPT-Noncore	100.0%	0.0%	0.0%	0.0%	0.0%	5.4%	6.7%	
PBOPBA	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
Pension BA	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission	Reg. Acct Filing 10/2014	CYPM	100.0%	38.7%	0.7%	14.5%	53.9%	2.4%	1.5%	
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution	Reg. Acct Filing 10/2014	%HPD Peak day	100.0%	70.1%	0.8%	20.7%	91.6%	1.6%	1.1%	
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmission	Reg. Acct Filing 10/2014	CYPM	100.0%	38.7%	0.7%	14.5%	53.9%	2.4%	1.5%	
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution	Reg. Acct Filing 10/2014	%HPD Peak day	100.0%	70.1%	0.8%	20.7%	91.6%	1.6%	1.1%	
Safety Enhancement Expense Balancing Account (SEEBBA) - Local Transmission	Reg. Acct Filing 10/2014	CYPM	100.0%	38.7%	0.7%	14.5%	53.9%	2.4%	1.5%	
Safety Enhancement Expense Balancing Account (SEEBBA) - Distribution	Reg. Acct Filing 10/2014	%HPD Peak day	100.0%	70.1%	0.8%	20.7%	91.6%	1.6%	1.1%	
RD&D 1-Way Bal Acct (Pre-2001)	Reg. Acct Filing 10/2014	ECPT	100.0%	26.2%	0.9%	14.4%	41.5%	3.1%	3.9%	
Rewards & Penalties Bal Acct RPBA	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
Self Gen Memo Acct - SGPMA-CSI	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
Self Gen Memo Acct - SGPMA-NonCSI	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
SGPMA - Rev Req for NEXT Year	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
Gain/Loss on Sale Memo Acct GLOSMA	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	
Integrated Transmission Margin ITBA	Reg. Acct Filing 10/2014	CYTP	100.0%	28.0%	0.9%	14.6%	43.5%	3.0%	3.8%	
Integrated Transmission Nonmargin ITBA	Reg. Acct Filing 10/2014	CYTP	100.0%	28.0%	0.9%	14.6%	43.5%	3.0%	3.8%	
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%	

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	EG>=3 mmth/yr	Total EG	Total NonCore
Regulatory Accounts			
Adv Mtring Infrastructure Balancing Acct AMIBA	1.6%	0.0%	2.8%
On-Bill Financing Balancing Account (OBFBA)	1.6%	0.0%	2.8%
Baseline Balance BA	0.0%	0.0%	0.0%
CFCA -Margin Only	0.0%	0.0%	0.0%
CFCA -Nonmargin Other	0.0%	0.0%	0.0%
CFCA -Nonmargin SCG	0.0%	0.0%	0.0%
Environmental Fee Balance Account EFBA	21.6%	26.9%	32.1%
Disconnect Memorandum Account (DMA)	0.0%	0.0%	0.0%
Distribution Integrity Management Program Memorandum Account (DIMPBA)	1.6%	0.0%	2.8%
Transmission Integrity Management Program Memorandum Account (TIMPBA)	1.6%	0.0%	2.8%
FERC Settlement Proceeds MA	0.0%	0.0%	0.0%
Core Gas Storage Balancing Acct. GSBA-C	0.0%	0.0%	0.0%
Hazardous Substance Cleanup Cost Acct HSCCA	51.4%	0.0%	58.5%
Master Meter Balancing Account (MMBA)	1.6%	0.0%	2.8%
Natural Gas Supp Refund Track Acct	51.4%	0.0%	58.5%
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccour	21.6%	26.9%	32.1%
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	1.6%	0.0%	2.8%
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	1.6%	0.0%	2.8%
NFCA -Margin Only	55.6%	70.4%	100.0%
NFCA -Nonmargin Other	87.9%	0.0%	100.0%
NFCA -Nonmargin SCG	87.9%	0.0%	100.0%
NGVA	51.4%	0.0%	58.5%
Non-Core Gas Storage Balancing Acct GSBA-NC	87.9%	0.0%	100.0%
PBOPBA	1.6%	0.0%	2.8%
Pension BA	1.6%	0.0%	2.8%
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission	42.2%	0.0%	46.1%
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution	5.7%	6.8%	8.4%
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmissior	42.2%	0.0%	46.1%
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution	5.7%	6.8%	8.4%
Safety Enhancement Expense Balancing Account (SEEBA) - Local Transmission	42.2%	0.0%	46.1%
Safety Enhancement Expense Balancing Account (SEEBA) - Distribution	5.7%	6.8%	8.4%
RD&D 1-Way Bal Acct (Pre-2001)	51.4%	0.0%	58.5%
Rewards & Penalties Bal Acct RPBA	1.6%	0.0%	2.8%
Self Gen Memo Acct - SGPMA-CSI	1.6%	0.0%	2.8%
Self Gen Memo Acct - SGPMA-NonCSI	1.6%	0.0%	2.8%
SGPMA - Rev Req for NEXT Year	1.6%	0.0%	2.8%
Gain/Loss on Sale Memo Acct GLOSMA	1.6%	0.0%	2.8%
Integrated Transmission Margin ITBA	49.7%	0.0%	56.5%
Integrated Transmission Nonmargin ITBA	49.7%	0.0%	56.5%
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	1.6%	0.0%	2.8%

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's				Res	NGV	Core C&I	Total Core
GRCRRMA Sub allocation for AB32 Admin Fees		N	\$336	\$144	\$5	\$79	\$228
CSI Thermal Program memoradum Account		Y	\$1,882	\$1,045	\$46	\$690	\$1,782
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Z-Factor Memorandum Account	Y	Y	\$0	\$0	\$0	\$0	\$0
Total Regulatory Accounts			\$63,584	\$50,872	\$1,298	\$21,365	\$73,535
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr				\$296,319	\$2,769	\$61,962	\$361,050
AVERAGE YEAR THROUGHPUT, Mth/yr				321,869	11,417	177,578	510,864
Average Rate \$/th				\$0.92062	\$0.24253	\$0.34893	\$0.70674
FFU Rate				102.33%	102.33%	102.33%	102.33%

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total		
GRCRRMA Sub allocation for AB32 Admin Fees	\$17	\$18	\$73	\$91	\$108	\$336	\$0	\$336
CSI Thermal Program memoradum Account	\$144	\$0	\$0	\$0	\$144	\$1,926	\$44	\$1,882
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Z-Factor Memorandum Account	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Regulatory Accounts	(\$1,256)	(\$917)	(\$6,760)	(\$7,677)	(\$8,933)	\$64,602	\$1,018	\$63,584
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr	\$1,566	\$852	\$5,311	\$6,163	\$7,729	\$368,779		
AVERAGE YEAR THROUGHPUT, Mth/yr	38,743	48,202	632,677	680,879	719,622	1,230,486		
Average Rate \$/th	\$0.04043	\$0.01768	\$0.00839	\$0.00905	\$0.01074	\$0.29970		
FFU Rate	102.33%	102.33%	102.33%	102.33%	102.33%	102.33%		

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	Source	Allocation	Allocation %						
			Total System	Res	NGV	Core C&I	Total Core	NCCI	EG <3 mmth/yr
GRCRRMA Sub allocation for AB32 Admin Fees	Reg. Acct Filing 10/2014	ECPT AB32 Fee Non-Exempt	100.0%	42.8%	1.5%	23.6%	67.9%	5.2%	5.3%
CSI Thermal Program memoradum Account	Reg. Acct Filing 10/2014	ECPT ex CARE, EG, Cost. Exempt	100.0%	54.3%	2.4%	35.8%	92.5%	7.5%	0.0%
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%
Z-Factor Memorandum Account	Reg. Acct Filing 10/2014	EPAM	100.0%	83.9%	0.5%	12.9%	97.2%	0.8%	0.4%
Total Regulatory Accounts									
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr									
AVERAGE YEAR THROUGHPUT, Mth/yr									
Average Rate \$/th									
FFU Rate									
	MISC Inputs								

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	EG>=3 mmth/yr	Total EG	Total NonCore
GRCRRMA Sub allocation for AB32 Admin Fees	21.6%	26.9%	32.1%
CSI Thermal Program memoradum Account	0.0%	0.0%	7.5%
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	1.6%	0.0%	2.8%
Z-Factor Memorandum Account	1.6%	0.0%	2.8%
Total Regulatory Accounts			

Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr

AVERAGE YEAR THROUGHPUT, Mth/yr

Average Rate \$/th

FFU Rate

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	Res	NGV	Core C&I	Total Core
Sempra Wide & TLS Adjustments::				
Transport Rev Req w/Sl, FFU w/o BTS Rev, SW adj, TLS \$000/yr	\$296,319	\$2,769	\$61,962	\$361,050
SW NGV Adjustment		(\$1,022)		(\$1,022)
SW EG Adjustment				\$0
TLS Adjustment				
Amount allocated to TLS Class \$000				\$0
TLS revenue paid by class @ average TLS rate \$000				\$0
	\$0	\$0	\$0	\$0
Transport Rev Req w/Sl, FFU, SW adj, TLS w/o BTS Rev \$000/yr	\$296,319	\$1,747	\$61,962	\$360,028
<i>Rate Tables difference</i>	<i>\$296,319</i>	<i>\$1,747</i>	<i>\$61,962</i>	<i>\$360,028</i>
	\$0	\$0	\$0	\$0
AYTP Mth/yr	321,869	11,417	177,578	510,864
Average Rate w/oBTS \$/th	\$0.92062	\$0.15304	\$0.34893	\$0.70474
<i>Rate Tables difference</i>	<i>\$0.92062</i>	<i>\$0.15304</i>	<i>\$0.34893</i>	<i>\$0.70474</i>
	\$0.00000	\$0.00000	\$0.00000	\$0.00000
BTS w/FFU Charge \$000	\$5,728	\$184	\$2,986	\$8,897
Transport Rev Req w/Sl, FFU, SW adj, TLS, BTS Rev \$000/yr	\$302,047	\$1,931	\$64,948	\$368,926
Average Rate w/ BTS \$/th	\$0.93842	\$0.16913	\$0.36574	\$0.72216

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total
Sempra Wide & TLS Adjustments::						
Transport Rev Req w/Sl, FFU w/o BTS Rev, SW adj, TLS \$000/yr	\$1,566			\$6,163	\$7,729	\$368,779
SW NGV Adjustment					\$0	(\$1,022)
SW EG Adjustment				\$3,058	\$3,058	\$3,058
TLS Adjustment						
Amount allocated to TLS Class \$000	(\$203)			(\$4,369)	(\$4,572)	(\$4,572)
TLS revenue paid by class @ average TLS rate \$000	\$258			\$8,431	\$8,689	\$8,689
	\$55			\$4,062	\$4,118	\$4,118
Transport Rev Req w/Sl, FFU, SW adj, TLS w/o BTS Rev \$000/yr	\$1,622			\$13,283	\$14,904	\$374,933
<i>Rate Tables difference</i>	<i>\$1,622</i>			<i>\$13,283</i>	<i>\$14,904</i>	<i>\$374,933</i>
<i>difference</i>	<i>\$0</i>			<i>\$0</i>	<i>\$0</i>	<i>\$0</i>
AYTP Mth/yr	38,743			680,879	719,622	1,230,486
Average Rate w/oBTS \$/th	\$0.04186			\$0.01951	\$0.02071	\$0.30470
<i>Rate Tables difference</i>	<i>\$0.04186</i>			<i>\$0.01951</i>	<i>\$0.02071</i>	<i>\$0.30470</i>
<i>difference</i>	<i>\$0.00000</i>			<i>\$0.00000</i>	<i>\$0.00000</i>	<i>\$0.00000</i>
BTS w/FFU Charge \$000	\$623	\$775	\$10,177	\$10,953	\$11,576	\$20,474
Transport Rev Req w/Sl, FFU, SW adj, TLS, BTS Rev \$000/yr	\$2,245			\$24,235	\$26,481	\$395,406
Average Rate w/ BTS \$/th	\$0.05795			\$0.03559	\$0.03680	\$0.32134

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	Source	Allocation	Allocation %					
			Total System	Res	NGV	Core C&I	Total Core	NCCI
Sempra Wide & TLS Adjustments::								
Transport Rev Req w/Sl, FFU w/o BTS Rev, SW adj, TLS \$000/yr								
SW NGV Adjustment								
SW EG Adjustment								
TLS Adjustment								
Amount allocated to TLS Class \$000								
TLS revenue paid by class @ average TLS rate \$000								
Transport Rev Req w/Sl, FFU, SW adj, TLS w/o BTS Rev \$000/yr								
<i>Rate Tables difference</i>		<i>Cost Alloc</i>						
AYTP Mth/yr								
Average Rate w/oBTS \$/th								
<i>Rate Tables difference</i>		<i>Cost Alloc</i>						
<i>BTS w/FFU Charge \$000</i>		<i>SCG/ Local & BBT</i>						
Transport Rev Req w/Sl, FFU, SW adj, TLS, BTS Rev \$000/yr								
Average Rate w/ BTS \$/th								

SDG&E Cost Allocation

January, 2015 Rates

MARGINAL COST COMPONENTS \$000's	EG>=3	Total	
	mmth/yr	Total EG	NonCore
<u>Sempra Wide & TLS Adjustments::</u>			
Transport Rev Req w/Sl, FFU w/o BTS Rev, SW adj, TLS \$000/yr			
SW NGV Adjustment			
SW EG Adjustment			
TLS Adjustment			
Amount allocated to TLS Class \$000			
TLS revenue paid by class @ average TLS rate \$000			
<u>Transport Rev Req w/Sl, FFU, SW adj, TLS w/o BTS Rev \$000/yr</u>			
<i>Rate Tables</i>			
<i>difference</i>			
AYTP Mth/yr			
Average Rate w/oBTS \$/th			
<i>Rate Tables</i>			
<i>difference</i>			
<i>BTS w/FFU Charge \$000</i>			
<u>Transport Rev Req w/Sl, FFU, SW adj, TLS, BTS Rev \$000/yr</u>			
<u>Average Rate w/ BTS \$/th</u>			

SDG&E Cost Allocation
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	Res	NGV	Core C&I	Total Core
Embedded Costs:				
Customer Related Costs	\$28,348	\$97	\$1,865	\$30,310
Medium Pressure Distribution Costs	(\$24,913)	(\$457)	(\$6,409)	(\$31,778)
High Pressure Distribution Costs	(\$3,519)	\$2	(\$975)	(\$4,492)
Backbone Transmission Costs	\$1,796	\$271	\$1,088	\$3,155
Local Transmission Costs	\$0	\$0	\$0	\$0
Storage - Borrego	\$0	\$0	\$0	\$0
Core Seasonal Storage	\$0	\$0	\$0	\$0
Storage - Load Balancing	\$0	\$0	\$0	\$0
NGV	\$0	\$252	\$0	\$252
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU	\$1,713	\$165	(\$4,431)	(\$2,553)
Less Backbone Transmission Costs	(\$1,796)	(\$271)	(\$1,088)	(\$3,155)
Less Local Transmission Costs	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
Plus Local Transmission Costs w/SI,FFU	\$506	\$49	\$252	\$807
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU	\$423	(\$58)	(\$5,266)	(\$4,901)

Other Operating Costs and Revenues	<i>Non-ECPT?</i>	Add FFU Y or N?	Amount to Allocate (w/o F&U)				
SCG Transport excl Core Storage & Load Balance \$000		Y	(\$2,108)	(\$582)	\$17	(\$289)	(\$854)
SCG Core Seasonal Storage		Y	\$1,667	\$1,557	\$75	\$73	\$1,706
SCG Load Balancing Allocated to ALL SDGE \$000		Y	\$2,219	\$584	\$42	\$341	\$967
n/a			\$0	\$0	\$0	\$0	\$0
LUAUF		Y	(\$3,601)	(\$1,096)	(\$10)	(\$580)	(\$1,686)
Company Use Gas: Other		Y	\$156	\$41	\$3	\$24	\$68
AMI rev req incl FF&U AL 1693-G	Y	Y	\$0	\$0	\$0	\$0	\$0
AB32 Fees (subtracted from base margin and allocated here)		Y	\$0	(\$3)	\$5	\$3	\$5
Subtotal Other Operating Costs and Revenues			(\$1,668)	\$501	\$133	(\$428)	\$206

SDG&E Cost Allocation
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total
Embedded Costs:						
Customer Related Costs	(\$189)	(\$28)	(\$118)	(\$145)	(\$334)	\$29,976
Medium Pressure Distribution Costs	(\$251)	\$149	(\$187)	(\$39)	(\$289)	(\$32,068)
High Pressure Distribution Costs	(\$60)	(\$22)	(\$343)	(\$364)	(\$425)	(\$4,917)
Backbone Transmission Costs	\$388	(\$555)	\$3,768	\$3,213	\$3,601	\$6,756
Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0
Storage - Borrego	\$0	\$0	\$0	\$0	\$0	\$0
Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$0
Storage - Load Balancing	\$0	\$0	\$0	\$0	\$0	\$0
NGV	\$0	\$0	\$0	\$0	\$0	\$252
Total Margin Allocation pre-SI, pre-BTS Unbundle w/FFU	(\$112)	(\$455)	\$3,120	\$2,665	\$2,553	\$0
Less Backbone Transmission Costs	(\$388)	\$555	(\$3,768)	(\$3,213)	(\$3,601)	(\$6,756)
Less Local Transmission Costs	\$0	\$0	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0	\$0	\$0
Plus Local Transmission Costs w/SI,FFU	\$80	\$3	\$792	\$794	\$874	\$1,681
Total Allocated Base Margin post-SI, post-BTS Unbundle, w/ FFU	(\$420)	\$102	\$144	\$246	(\$174)	(\$5,075)

Other Operating Costs and Revenues							F&U Amount \$000	Total Allocated \$000
SCG Transport excl Core Storge & Load Balance \$000	(\$36)	(\$228)	(\$1,040)	(\$1,268)	(\$1,304)	(\$2,158)	(\$49)	(\$2,108)
SCG Core Seasonal Storage	\$0	\$0	\$0	\$0	\$0	\$1,706	\$39	\$1,667
SCG Load Balancing Allocated to ALL SDGE \$000	\$90	\$8	\$1,207	\$1,215	\$1,304	\$2,271	\$52	\$2,219
n/a	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LUAUF	(\$102)	(\$158)	(\$1,740)	(\$1,898)	(\$2,000)	(\$3,685)	(\$84)	(\$3,601)
Company Use Gas: Other	\$6	\$0	\$85	\$85	\$92	\$159	\$4	\$156
AMI rev req incl FF&U AL 1693-G	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AB32 Fees (subtracted from base margin and allocated here)	\$4	(\$20)	\$11	(\$9)	(\$5)	\$0	\$0	\$0
Subtotal Other Operating Costs and Revenues	(\$37)	(\$397)	(\$1,478)	(\$1,875)	(\$1,913)	(\$1,706)	(\$39)	(\$1,668)

SDG&E Cost Allocation
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's				Res	NGV	Core C&I	Total Core
Regulatory Accounts							
Adv Mtring Infrastructure Balancing Acct AMIBA	Y	Y	\$0	\$0	\$0	\$0	\$0
On-Bill Financing Balancing Account (OBFBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Baseline Balance BA		Y	\$0	\$0	\$0	\$0	\$0
CFCA -Margin Only		Y	(\$62,951)	(\$40,409)	(\$1,586)	(\$22,425)	(\$64,420)
CFCA -Nonmargin Other		Y	(\$198)	(\$115)	(\$15)	(\$73)	(\$203)
CFCA -Nonmargin SCG		Y	(\$745)	(\$446)	(\$45)	(\$271)	(\$762)
Environmental Fee Balance Account EFBA		Y	\$0	\$0	\$0	\$0	\$0
Disconnect Memorandum Account (DMA)		Y	\$0	\$0	\$0	\$0	\$0
Distribution Integrity Management Program Memorandum Account (DIMPBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Transmission Integrity Management Program Memorandum Account (TIMPBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
FERC Settlement Proceeds MA		Y	\$0	\$0	\$0	\$0	\$0
Core Gas Storage Balancing Acct. GSBA-C		Y	\$0	\$0	\$0	\$0	\$0
Hazardous Substance Cleanup Cost Acct HSCCA		Y	(\$1,581)	(\$423)	(\$16)	(\$234)	(\$673)
Master Meter Balancing Account (MMBA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Natural Gas Supp Refund Track Acct		Y	\$0	\$0	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount		Y	\$0	\$3	(\$5)	(\$3)	(\$5)
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	Y	Y	(\$0)	\$9	(\$0)	(\$9)	\$0
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	Y	Y	(\$0)	(\$21)	\$0	\$20	(\$0)
NFCA -Margin Only	Y	Y	(\$698)	\$0	\$0	\$0	\$0
NFCA -Nonmargin Other		Y	(\$756)	\$0	\$0	\$0	\$0
NFCA -Nonmargin SCG		Y	(\$4,471)	\$0	\$0	\$0	\$0
NGVA		Y	\$0	\$0	\$0	\$0	\$0
Non-Core Gas Storage Balancing Acct GSBA-NC		Y	\$0	\$0	\$0	\$0	\$0
PBOPBA	Y	Y	\$0	(\$8)	\$0	\$7	(\$0)
Pension BA	Y	Y	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission		Y	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmission		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBBA) - Local Transmission		Y	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBBA) - Distribution		Y	\$0	\$0	\$0	\$0	\$0
RD&D 1-Way Bal Acct (Pre-2001)		Y	\$0	\$0	\$0	\$0	\$0
Rewards & Penalties Bal Acct RPBA	Y	Y	(\$808)	(\$688)	(\$4)	(\$112)	(\$804)
Self Gen Memo Acct - SGPMA-CSI	Y	Y	\$0	\$0	\$0	\$0	\$0
Self Gen Memo Acct - SGPMA-NonCSI	Y	Y	\$0	\$0	\$0	\$0	\$0
SGPMA - Rev Req for NEXT Year	Y	Y	(\$770)	(\$661)	(\$4)	(\$102)	(\$766)
Gain/Loss on Sale Memo Acct GLO SMA	Y	Y	\$0	\$0	\$0	\$0	\$0
Integrated Transmission Margin ITBA		Y	\$1,056	\$299	\$18	\$162	\$478
Integrated Transmission Nonmargin ITBA		Y	\$0	\$0	\$0	\$0	\$0
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	Y	Y	(\$19,627)	(\$16,458)	(\$88)	(\$2,532)	(\$19,078)
GRCRRMA Sub allocation for AB32 Admin Fees		Y	(\$336)	(\$144)	(\$5)	(\$79)	(\$228)

SDG&E Cost Allocation
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total		
Regulatory Accounts								
Adv Mtring Infrastructure Balancing Acct AMIBA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
On-Bill Financing Balancing Account (OBFBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Baseline Balance BA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CFCA -Margin Only	\$0	\$0	\$0	\$0	\$0	(\$64,420)	(\$1,469)	(\$62,951)
CFCA -Nonmargin Other	\$0	\$0	\$0	\$0	\$0	(\$203)	(\$5)	(\$198)
CFCA -Nonmargin SCG	\$0	\$0	\$0	\$0	\$0	(\$762)	(\$17)	(\$745)
Environmental Fee Balance Account EFBA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Disconnect Memorandum Account (DMA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Distribution Integrity Management Program Memorandum Account (DIMPBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Transmission Integrity Management Program Memorandum Account (TIMPBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FERC Settlement Proceeds MA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Core Gas Storage Balancing Acct. GSBA-C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hazardous Substance Cleanup Cost Acct HSCCA	(\$52)	(\$59)	(\$834)	(\$893)	(\$945)	(\$1,617)	(\$37)	(\$1,581)
Master Meter Balancing Account (MMBA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Natural Gas Supp Refund Track Acct	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - Admin Fees Subaccount	(\$5)	\$21	(\$11)	\$10	\$5	\$0	\$0	\$0
New Environmental Regulation Balancing Account (NERBA) - C&T Subaccount	(\$1)	\$0	\$0	\$1	(\$0)	(\$0)	(\$0)	(\$0)
New Environmental Regulation Balancing Account (NERBA) - Subpart W Subaccount	\$2	(\$1)	(\$1)	(\$2)	\$0	(\$0)	(\$0)	(\$0)
NFCA -Margin Only	\$29	(\$189)	(\$554)	(\$743)	(\$714)	(\$714)	(\$16)	(\$698)
NFCA -Nonmargin Other	(\$54)	(\$0)	(\$719)	(\$719)	(\$773)	(\$773)	(\$18)	(\$756)
NFCA -Nonmargin SCG	(\$340)	\$77	(\$4,313)	(\$4,236)	(\$4,576)	(\$4,576)	(\$104)	(\$4,471)
NGVA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Non-Core Gas Storage Balancing Acct GSBA-NC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PBOPBA	\$1	(\$0)	(\$0)	(\$1)	\$0	\$0	\$0	\$0
Pension BA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Transmission	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pipeline Safety and Reliability Memo Acct (PSRMA) - Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Local Transmission	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Capital Cost Balancing Account (SECCBA) - Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBBA) - Local Transmission	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Safety Enhancement Expense Balancing Account (SEEBBA) - Distribution	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RD&D 1-Way Bal Acct (Pre-2001)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Rewards & Penalties Bal Acct RPBA	(\$7)	(\$3)	(\$13)	(\$16)	(\$23)	(\$827)	(\$19)	(\$808)
Self Gen Memo Acct - SGPMA-CSI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Self Gen Memo Acct - SGPMA-NonCSI	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SGPMA - Rev Req for NEXT Year	(\$7)	(\$3)	(\$12)	(\$16)	(\$22)	(\$788)	(\$18)	(\$770)
Gain/Loss on Sale Memo Acct GLOSMA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Integrated Transmission Margin ITBA	\$40	\$8	\$554	\$562	\$602	\$1,081	\$25	\$1,056
Integrated Transmission Nonmargin ITBA	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
General Rate Case Revenue Requirement Memorandum Account (GRCRRMA)	(\$163)	(\$81)	(\$306)	(\$387)	(\$550)	(\$19,627)	\$0	(\$19,627)
GRCRRMA Sub allocation for AB32 Admin Fees	(\$17)	(\$18)	(\$73)	(\$91)	(\$108)	(\$336)	\$0	(\$336)

SDG&E Cost Allocation
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's				Res	NGV	Core C&I	Total Core
CSI Thermal Program memorandum Account		Y	(\$1,343)	(\$758)	(\$34)	(\$486)	(\$1,277)
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	Y	Y	\$0	\$0	\$0	\$0	\$0
Z-Factor Memorandum Account	Y	Y	\$0	\$0	\$0	\$0	\$0
Total Regulatory Accounts			(\$93,229)	(\$59,818)	(\$1,784)	(\$26,136)	(\$87,739)
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr				(\$58,894)	(\$1,709)	(\$31,831)	(\$92,433)
AVERAGE YEAR THROUGHPUT, Mth/yr				(1,887)	7,084	5,082	10,280
Average Rate \$/th				(\$0.17862)	(\$0.18524)	(\$0.18397)	(\$0.19131)
FFU Rate				0.00%	0.00%	0.00%	0.00%

SDG&E Cost Allocation
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total		
CSI Thermal Program memorandum Account	(\$97)	\$0	\$0	\$0	(\$97)	(\$1,375)	(\$31)	(\$1,343)
Catastrophic Event Memo. Acct. -- 2007 (CEMA)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Z-Factor Memorandum Account	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Regulatory Accounts	(\$671)	(\$247)	(\$6,282)	(\$6,529)	(\$7,200)	(\$94,939)	(\$1,710)	(\$93,229)
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr	(\$1,129)	(\$542)	(\$7,616)	(\$8,158)	(\$9,287)	(\$101,720)		
AVERAGE YEAR THROUGHPUT, Mth/yr	6,232	(26,921)	15,923	(10,998)	(4,765)	5,515		
Average Rate \$/th	(\$0.03070)	(\$0.00312)	(\$0.01195)	(\$0.01203)	(\$0.01292)	(\$0.08363)		
FFU Rate	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		

SDG&E Cost Allocation
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	Res	NGV	Core C&I	Total Core
Sempra Wide & TLS Adjustments::				
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr	(58,894)	(1,709)	(31,831)	(92,433)
SW NGV Adjustment	0	2,152	0	2,152
SW EG Adjustment	\$0	\$0	\$0	\$0
TLS Adjustment				
Amount allocated to TLS Class \$000	\$0	\$0	\$0	\$0
TLS revenue paid by class @ average TLS rate \$000	\$0	\$0	\$0	\$0
	\$0	\$0	\$0	\$0
Transport Rev Req w/SI, FFU, SW adj, TLS w/o BTS Rev \$000/yr	(\$58,894)	\$443	(\$31,831)	(\$90,282)
<i>Rate Tables difference</i>	<i>(\$58,894)</i>	<i>\$443</i>	<i>(\$31,831)</i>	<i>(\$90,282)</i>
	\$0	\$0	\$0	\$0
AYTP Mth/yr	(1,887)	7,084	5,082	10,280
Average Rate w/oBTS \$/th	(\$0.17862)	(\$0.03467)	(\$0.18397)	(\$0.18714)
<i>Rate Tables difference</i>	<i>(\$0.17862)</i>	<i>(\$0.03467)</i>	<i>(\$0.18397)</i>	<i>(\$0.18714)</i>
	\$0.00000	\$0.00000	\$0.00000	\$0.00000
BTS w/FFU Charge \$000	\$1,094	\$173	\$668	\$1,934
Transport Rev Req w/SI, FFU, SW adj, TLS, BTS Rev \$000/yr	(\$57,800)	\$615	(\$31,163)	(\$88,347)
Average Rate w/ BTS \$/th	(\$0.17510)	(\$0.03150)	(\$0.18078)	(\$0.18377)

SDG&E Cost Allocation
2016 TCAP Phase II Rates

MARGINAL COST COMPONENTS \$000's	NCCI	EG Tier 1	EG Tier 2	Total EG	Total NonCore	System Total
Sempra Wide & TLS Adjustments::						
Transport Rev Req w/SI, FFU w/o BTS Rev, SW adj, TLS \$000/yr	(1,129)	0	0	(8,158)	(9,287)	(101,720)
SW NGV Adjustment	0	0	0	0	0	2,152
SW EG Adjustment	\$0	\$0	\$0	\$699	\$699	\$699
TLS Adjustment						
Amount allocated to TLS Class \$000	\$227	\$0	\$0	\$6,619	\$6,847	\$6,847
TLS revenue paid by class @ average TLS rate \$000	(\$15)	\$0	\$0	(\$910)	(\$924)	(\$924)
	\$213	\$0	\$0	\$5,710	\$5,922	\$5,922
Transport Rev Req w/SI, FFU, SW adj, TLS w/o BTS Rev \$000/yr	(\$916)	\$0	\$0	(\$1,749)	(\$2,665)	(\$92,947)
<i>Rate Tables difference</i>	<i>(\$916)</i>	<i>\$0</i>	<i>\$0</i>	<i>(\$1,749)</i>	<i>(\$2,665)</i>	<i>(\$92,947)</i>
	\$0	\$0	\$0	\$0	\$0	\$0
AYTP Mth/yr	6,232	0	0	(10,998)	(4,765)	5,515
Average Rate w/oBTS \$/th	(\$0.02617)	\$0.00000	\$0.00000	(\$0.00229)	(\$0.00359)	(\$0.07656)
<i>Rate Tables difference</i>	<i>(\$0.02617)</i>	<i>\$0.00000</i>	<i>\$0.00000</i>	<i>(\$0.00229)</i>	<i>(\$0.00359)</i>	<i>(\$0.07656)</i>
	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000
BTS w/FFU Charge \$000	\$243	(\$366)	\$2,315	\$1,949	\$2,192	\$4,127
Transport Rev Req w/SI, FFU, SW adj, TLS, BTS Rev \$000/yr	(\$673)	\$0	\$0	\$200	(\$473)	(\$88,820)
Average Rate w/ BTS \$/th	(\$0.02299)	\$0.00000	\$0.00000	\$0.00088	(\$0.00042)	(\$0.07329)

**SDG&E Residential Bill Impact
2016 TCAP Phase II Rates**

Notes:

- 1) G-CP rate from 06/2015
- 2) PPPS rate for non-care customer.
- 3) BL usage limits reflect Zone 1
- 4) G-SRF rate as of 1/2015

	Summer Average (May-Oct)	Winter Average (Nov-Apr)	Winter Peak (Nov-Apr)	Monthly Average (Jan-Dec)	Annual Charges (Jan-Dec)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
INPUT:																	
Customer Charge \$/day =						\$0.32877	\$0.32877	\$0.32877	\$0.32877	\$0.32877	\$0.32877	\$0.32877	\$0.32877	\$0.32877	\$0.32877	\$0.32877	\$0.32877
BL Rate \$/th =						\$0.33864	\$0.33864	\$0.33864	\$0.33864	\$0.33864	\$0.33864	\$0.33864	\$0.33864	\$0.33864	\$0.33864	\$0.33864	\$0.33864
NBL Rate \$/th =						\$0.59864	\$0.59864	\$0.59864	\$0.59864	\$0.59864	\$0.59864	\$0.59864	\$0.59864	\$0.59864	\$0.59864	\$0.59864	\$0.59864
G-CP \$/th =						\$0.33362	\$0.33362	\$0.33362	\$0.33362	\$0.33362	\$0.33362	\$0.33362	\$0.33362	\$0.33362	\$0.33362	\$0.33362	\$0.33362
PPPS Non-CARE \$/th =						\$0.08288	\$0.08288	\$0.08288	\$0.08288	\$0.08288	\$0.08288	\$0.08288	\$0.08288	\$0.08288	\$0.08288	\$0.08288	\$0.08288
G-SRF \$/th =						\$0.00068	\$0.00068	\$0.00068	\$0.00068	\$0.00068	\$0.00068	\$0.00068	\$0.00068	\$0.00068	\$0.00068	\$0.00068	\$0.00068
BL Usage limit th/day =						1.546	1.546	1.546	1.546	0.493	0.493	0.493	0.493	0.493	0.493	1.546	1.546
# days in month =						31	28	31	30	31	30	31	31	30	31	30	31
BL usage limit th/mo =						48	43	48	46	15	15	15	15	15	15	46	48
CARE Discount						20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
PPPS CARE \$/th =						\$0.04383	\$0.04383	\$0.04383	\$0.04383	\$0.04383	\$0.04383	\$0.04383	\$0.04383	\$0.04383	\$0.04383	\$0.04383	\$0.04383

SDG&E Residential Class Average:

Total th used th/mo =	17	36	50	26	318	50	42	37	28	22	19	17	15	15	16	22	37
BL therms =	15	36	48	25	303	48	42	37	28	15	15	15	15	15	15	22	37
NBL therms =	2	0	2	1	15	2	0	0	0	7	4	2	0	0	1	0	0

charges

Customer Charge \$/mo =	\$10.08	\$9.92	\$10.19	\$10.00	\$120.00	\$10.19	\$9.21	\$10.19	\$9.86	\$10.19	\$9.86	\$10.19	\$10.19	\$9.86	\$10.19	\$9.86	\$10.19
BL charges \$/mo =	\$5.07	\$12.03	\$16.25	\$8.55	\$102.63	\$16.25	\$14.20	\$12.41	\$9.40	\$5.08	\$5.08	\$5.08	\$5.02	\$5.08	\$5.08	\$7.41	\$12.53
NBL charge \$/mo =	\$1.31	\$0.16	\$0.98	\$0.74	\$8.86	\$0.98	\$0.00	\$0.00	\$0.00	\$4.08	\$2.32	\$1.06	\$0.00	\$0.08	\$0.34	\$0.00	\$0.00
Commodity Charge \$/mo =	\$5.73	\$11.95	\$16.56	\$8.84	\$106.05	\$16.56	\$13.99	\$12.23	\$9.26	\$7.28	\$6.30	\$5.60	\$4.95	\$5.05	\$5.19	\$7.30	\$12.35
PPPS charge \$/mo =	\$1.42	\$2.97	\$4.11	\$2.20	\$26.35	\$4.11	\$3.48	\$3.04	\$2.30	\$1.81	\$1.56	\$1.39	\$1.23	\$1.25	\$1.29	\$1.81	\$3.07
G-PUC Regulatory Fee \$/mo =	\$0.01	\$0.02	\$0.03	\$0.02	\$0.22	\$0.03	\$0.03	\$0.02	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.03
Total Charge \$/mo =	\$23.63	\$37.06	\$48.13	\$30.34	\$364.10	\$48.13	\$40.90	\$37.89	\$30.83	\$28.46	\$25.13	\$23.33	\$21.41	\$21.33	\$22.11	\$26.41	\$38.17

SDG&E Residential Single Family:

Total th used th/mo =	19	40	56	29	350	56	47	41	30	24	20	18	16	16	17	23	41
BL therms =	15	38	48	26	317	48	43	41	30	15	15	15	15	15	15	23	41
NBL therms =	4	2	8	3	33	8	4	0	0	9	5	3	1	1	2	0	0

charges

Customer Charge \$/mo =	\$10.08	\$9.92	\$10.19	\$10.00	\$120.00	\$10.19	\$9.21	\$10.19	\$9.86	\$10.19	\$9.86	\$10.19	\$10.19	\$9.86	\$10.19	\$9.86	\$10.19
BL charges \$/mo =	\$5.08	\$12.82	\$16.25	\$8.95	\$107.41	\$16.25	\$14.56	\$13.86	\$10.26	\$5.08	\$5.08	\$5.08	\$5.08	\$5.08	\$5.08	\$7.95	\$14.04
NBL charge \$/mo =	\$2.10	\$1.21	\$4.88	\$1.66	\$19.89	\$4.88	\$2.39	\$0.00	\$0.00	\$5.18	\$3.28	\$2.01	\$0.48	\$0.65	\$1.02	\$0.00	\$0.00
Commodity Charge \$/mo =	\$6.18	\$13.31	\$18.74	\$9.74	\$116.90	\$18.74	\$15.68	\$13.65	\$10.11	\$7.89	\$6.83	\$6.13	\$5.27	\$5.37	\$5.57	\$7.84	\$13.83
PPPS charge \$/mo =	\$1.53	\$3.31	\$4.65	\$2.42	\$29.04	\$4.65	\$3.90	\$3.39	\$2.51	\$1.96	\$1.70	\$1.52	\$1.31	\$1.33	\$1.38	\$1.95	\$3.44
G-PUC Regulatory Fee \$/mo =	\$0.01	\$0.03	\$0.04	\$0.02	\$0.24	\$0.04	\$0.03	\$0.03	\$0.02	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.02	\$0.03
Total Charge \$/mo =	\$24.99	\$40.59	\$54.76	\$32.79	\$393.47	\$54.76	\$45.77	\$41.12	\$32.76	\$30.32	\$26.76	\$24.94	\$22.34	\$22.30	\$23.25	\$27.62	\$41.53

SDG&E Residential Multi Family:

Total th used th/mo =	12	21	26	17	198	26	23	21	17	15	14	12	11	11	12	15	21
BL therms =	11	21	26	16	188	26	23	21	17	11	10	11	11	10	11	15	21
NBL therms =	2	0	0	1	11	0	0	0	0	4	4	1	0	1	1	0	0

BL Usage limit th/day =						1.082	1.082	1.082	1.082	0.345	0.345	0.345	0.345	0.345	0.345	1.082	1.082
# days in month =						31	28	31	30	31	30	31	31	30	31	30	31
BL usage limit th/mo =						34	30	34	32	11	10	11	11	10	11	32	34

charges

Customer Charge \$/mo =	\$10.08	\$9.92	\$10.19	\$10.00	\$120.00	\$10.19	\$9.21	\$10.19	\$9.86	\$10.19	\$9.86	\$10.19	\$10.19	\$9.86	\$10.19	\$9.86	\$10.19
BL charges \$/mo =	\$3.60	\$6.99	\$8.77	\$5.29	\$63.51	\$8.77	\$7.81	\$7.06	\$5.91	\$3.73	\$3.39	\$3.73	\$3.65	\$3.39	\$3.73	\$5.16	\$7.21
NBL charge \$/mo =	\$1.05	\$0.00	\$0.00	\$0.52	\$6.29	\$0.00	\$0.00	\$0.00	\$0.00	\$2.29	\$2.16	\$0.60	\$0.00	\$0.76	\$0.48	\$0.00	\$0.00
Commodity Charge \$/mo =	\$4.13	\$6.88	\$8.64	\$5.51	\$66.08	\$8.64	\$7.69	\$6.95	\$5.83	\$4.95	\$4.54	\$4.00	\$3.59	\$3.76	\$3.94	\$5.09	\$7.10
PPPS charge \$/mo =	\$1.03	\$1.71	\$2.15	\$1.37	\$16.42	\$2.15	\$1.91	\$1.73	\$1.45	\$1.23	\$1.13	\$0.99	\$0.89	\$0.93	\$0.98	\$1.26	\$1.76
G-PUC Regulatory Fee \$/mo =	\$0.01	\$0.01	\$0.02	\$0.01	\$0.13	\$0.02	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Total Charge \$/mo =	\$19.89	\$25.51	\$29.76	\$22.70	\$272.43	\$29.76	\$26.63	\$25.94	\$23.06	\$22.39	\$21.09	\$19.52	\$18.33	\$18.71	\$19.33	\$21.39	\$26.28

**SDG&E Residential Bill Impact
2016 TCAP Phase II Rates**

Notes:

- 1) G-CP rate from 06/2015
- 2) PPPS rate for non-care customer.
- 3) BL usage limits reflect Zone 1
- 4) G-SRF rate as of 1/2015

SDG&E Residential CARE:

Total th used th/mo =	17	31	40	24	283	40	35	31	25	21	18	16	14	14	15	20	32	
BL therms =	15	31	40	23	273	40	35	31	25	15	15	15	14	14	15	20	32	
NBL therms =	2	0	0	1	11	0	0	0	0	6	3	1	0	0	0	0	0	
charges																		
Customer Charge \$/mo =	\$8.07	\$7.93	\$8.15	\$8.00	\$96.00	\$8.15	\$7.36	\$8.15	\$7.89	\$8.15	\$7.89	\$8.15	\$8.15	\$7.89	\$8.15	\$7.89	\$8.15	
BL charges \$/mo =	\$4.01	\$8.30	\$10.93	\$6.16	\$73.88	\$10.93	\$9.54	\$8.52	\$6.76	\$4.06	\$4.06	\$4.06	\$3.89	\$3.91	\$4.06	\$5.49	\$8.58	
NBL charge \$/mo =	\$0.85	\$0.00	\$0.00	\$0.42	\$5.07	\$0.00	\$0.00	\$0.00	\$0.00	\$2.80	\$1.51	\$0.63	\$0.00	\$0.00	\$0.13	\$0.00	\$0.00	
Commodity Charge \$/mo =	\$4.42	\$8.18	\$10.77	\$6.30	\$75.61	\$10.77	\$9.40	\$8.39	\$6.66	\$5.57	\$4.85	\$4.35	\$3.83	\$3.85	\$4.08	\$5.41	\$8.45	
PPPS charge \$/mo =	\$0.73	\$1.34	\$1.77	\$1.03	\$12.42	\$1.77	\$1.54	\$1.38	\$1.09	\$0.91	\$0.80	\$0.71	\$0.63	\$0.63	\$0.67	\$0.89	\$1.39	
G-PUC Regulatory Fee \$/mo =	\$0.01	\$0.02	\$0.03	\$0.02	\$0.19	\$0.03	\$0.02	\$0.02	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.02	
Total Charge \$/mo =	\$18.08	\$25.78	\$31.65	\$21.93	\$263.17	\$31.65	\$27.86	\$26.47	\$22.42	\$21.52	\$19.12	\$17.92	\$16.52	\$16.30	\$17.10	\$19.70	\$26.60	

SDG&E Residential Class Average Baseline Only:

Total th used th/mo =	15	36	48	25	301	48	42	37	28	15	14	15	15	14	15	22	37	
BL therms =	15	36	48	25	301	48	42	37	28	15	14	15	15	14	15	22	37	
NBL therms =	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
charges																		
Customer Charge \$/mo =	\$10.08	\$9.92	\$10.19	\$10.00	\$120.00	\$10.19	\$9.21	\$10.19	\$9.86	\$10.19	\$9.86	\$10.19	\$10.19	\$9.86	\$10.19	\$9.86	\$10.19	
BL charges \$/mo =	\$4.96	\$12.03	\$16.25	\$8.50	\$101.95	\$16.25	\$14.20	\$12.41	\$9.40	\$5.08	\$4.74	\$5.08	\$5.02	\$4.74	\$5.08	\$7.41	\$12.53	
NBL charge \$/mo =	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Commodity Charge \$/mo =	\$4.88	\$11.86	\$16.01	\$8.37	\$100.44	\$16.01	\$13.99	\$12.23	\$9.26	\$5.00	\$4.67	\$5.00	\$4.95	\$4.67	\$5.00	\$7.30	\$12.35	
PPPS charge \$/mo =	\$1.21	\$2.95	\$3.98	\$2.08	\$24.95	\$3.98	\$3.48	\$3.04	\$2.30	\$1.24	\$1.16	\$1.24	\$1.23	\$1.16	\$1.24	\$1.81	\$3.07	
G-PUC Regulatory Fee \$/mo =	\$0.01	\$0.02	\$0.03	\$0.02	\$0.20	\$0.03	\$0.03	\$0.02	\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.03	
Total Charge \$/mo =	\$21.15	\$36.78	\$46.47	\$28.96	\$347.56	\$46.47	\$40.90	\$37.89	\$30.83	\$21.53	\$20.44	\$21.53	\$21.41	\$20.44	\$21.53	\$26.41	\$38.17	

SDGE - Transfer Data and Other Requirements to RUN Rate Design model
2016 TCAP Phase II Rates

Copy Values	Copy To (paste values)			Data From	Data To
	Copy From				
Base Line Rate \$/th= blr based on DIFFERENCE CAP	\$0.00000	\$0.33753	\$0.33753	Res Rate	Res Rate
Base Line Rate \$/th= blr based on RATIO	\$0.00000	\$0.19983	\$0.19983	Res Rate	Res Rate

Data From SCG RD Model	Model / Source
Allocated Local T under SI w/FFU \$000 Res	\$3,058 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated Local T under SI w/FFU \$000 NGV	\$95 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated Local T under SI w/FFU \$000 Core C&I	\$1,210 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated Local T under SI w/FFU \$000 Total Core	\$4,363 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated Local T under SI w/FFU \$000 NCCI	\$236 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated Local T under SI w/FFU \$000 EG Tier 1	\$104 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated Local T under SI w/FFU \$000 EG Tier 2	\$3,575 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated Local T under SI w/FFU \$000 Total EG	\$3,679 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated Local T under SI w/FFU \$000 Total NonCore	\$3,915 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated Local T under SI w/FFU \$000 System Total	\$8,278 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 Res	\$6,683 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 NGV	\$349 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 Core C&I	\$3,579 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 Total Core	\$10,611 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 NCCI	\$849 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 EG Tier 1	\$402 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 EG Tier 2	\$12,238 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 Total EG	\$12,640 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 Total NonCore	\$13,488 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
Allocated BBT under SI w/FFU \$000 System Total	\$24,100 SCG RD Model/Local & BBT Costs copy to COST ALLOC tab
TLS Revenue NCCI-T EFBA Exempt \$000	\$225 SCG RD Model/RUN copy to Rate Tables
TLS Revenue EG-Tier T EFBA Exempt \$000	\$27 SCG RD Model/RUN copy to Rate Tables
TLS Revenue EG-Tier 2-T EFBA Exempt \$000	\$7,498 SCG RD Model/RUN copy to Rate Tables
TLS Class Average Rate NCCI T	\$0.01311 SCG RD Model/RUN copy to Rate Tables
TLS Class Average Rate EG T	\$0.01311 SCG RD Model/RUN copy to Rate Tables
Pre-SW TLS NCCI	(\$43) SCG RD Model/RUN copy to Rate Tables
Post SW TLS NCCI	\$225 SCG RD Model/RUN copy to Rate Tables
Pre-SW TLS EG	(\$2,246) SCG RD Model/RUN copy to Rate Tables
Post SW TLS EG	\$7,525 SCG RD Model/RUN copy to Rate Tables
EFBA adder	\$0 SCG RD Model/RUN copy to Rate Tables
TLS Revenue NCCI-T \$000	\$225 SCG RD Model/Local T Rate copy to Rate Tables
TLS Revenue EG-Tier 1-T \$000	\$27 SCG RD Model/Local T Rate copy to Rate Tables

TLS Revenue EG-Tier 2-T \$000	\$7,498	SCG RD Model/Local T Rate	copy to Rate Tables
TLS Volumes NCCI-T Mth/yr	\$17,168	SCG RD Model/Local T Rate	copy to Rate Tables
TLS Volumes EG-Tier1-T Mth/yr	\$2,071	SCG RD Model/Local T Rate	copy to Rate Tables
TLS Volumes EG-Tier2-T Mth/yr	\$572,004	SCG RD Model/Local T Rate	copy to Rate Tables
TLS SFV Mcapacity Reserved Mdth/day	n/a	SCG RD Model/Local T Rate	copy to Rate Tables
TLS SFV Volumes Mth/year	n/a	SCG RD Model/Local T Rate	copy to Rate Tables
TLS ST VOL Volumes Mth/year	n/a	SCG RD Model/Local T Rate	copy to Rate Tables
TLS LT VOL Volumes Mth/year	n/a	SCG RD Model/Local T Rate	copy to Rate Tables
Est FAR Revenue from SDGE Res	\$6,822	SCG RD Model/Local & BBT Costs	copy to COST ALLOC tab
Est FAR Revenue from SDGE NGV	\$356	SCG RD Model/Local & BBT Costs	copy to COST ALLOC tab
Est FAR Revenue from SDGE CCI	\$3,653	SCG RD Model/Local & BBT Costs	copy to COST ALLOC tab
Est FAR Revenue from SDGE NCCI	\$866	SCG RD Model/Local & BBT Costs	copy to COST ALLOC tab
Est FAR Revenue from SDGE EG Tier 1	\$410	SCG RD Model/Local & BBT Costs	copy to COST ALLOC tab
Est FAR Revenue from SDGE EG Tier 2	\$12,492	SCG RD Model/Local & BBT Costs	copy to COST ALLOC tab
Est FAR Revenue from SDGE Customers	\$24,600	SCG RD Model/Local & BBT Costs	Copy to Rate Tables
SCG Transport Only Costs Allocated to SDGE Core & Dist \$000	\$6,378	SCG RD model/SDGE Detail Alloc	Copy to Cost Alloc
SCG Core Seasonal Storage	\$7,481	SCG RD Model/RUN	copy to COST ALLOC tab
SCG Load Balancing Allocated to ALL SDGE \$000	\$3,610	SCG RD Model/RUN	copy to COST ALLOC tab
SCG Core Seasonal Storage HRSMA	\$0	SCG RD Model/RUN	copy to COST ALLOC tab
SCG Load Balancing Allocated to ALL SDGE \$000 HRSMA	\$0	SCG RD Model/RUN	copy to COST ALLOC tab
SFV Base Margin Items = Reservation Charge \$/dth/day	\$0.00655	SCG RD Model / Trans Rates	Copy to Rate Tables
ST Volumetric Base Margin Items \$/th	\$0.00991	SCG RD Model / Trans Rates	Copy to Rate Tables
TLS LT VOL Rate \$/th	\$0.00991	SCG RD Model/TLS Rate	Copy to Rate Tables
TLS CA Usage Fee (non base margin items) \$/th	\$0.00328	SCG RD Model / Trans Rates	Copy to Rate Tables
TLS RS Usage Fee \$/th	\$0.00328	SCG RD Model / Trans Rates	Copy to Rate Tables
120% Class Average Volumetric Rate \$/th	\$0.01517		
200% Class Average Volumetric Rate \$/th	\$0.01781		
EG Tier 1-D SW Volumetric Rate w/FFU \$/th Post SW	\$0.08460	SCG RD model/EG-D Rates	Copy to EG-D rates tab
EG Tier 2-D SW Volumetric Rate w/FFU \$/th Post SW	\$0.03085	SCG RD model/EG-D Rates	Copy to EG-D rates tab
EG Tier 1 NoTLS SW Volumetric Rate w/FFU \$/th Post SW	n/a	SCG RD model/EG Rates NoTLS	Copy to EG-D rates tab
EG Tier 2 NoTLS SW Volumetric Rate w/FFU \$/th Post SW	n/a	SCG RD model/EG Rates NoTLS	Copy to EG-D rates tab
SW Volumetric Rate w/FFU \$/th UnCompressed	\$0.07514	SCG RD model/NGV Rates	
SW Volumetric Rate w/FFU \$/th Compressed	\$1.03712	SCG RD model/NGV Rates	
SDGE ITBA Balance Post SI	\$0	SCG RD model/Misc Inputs	
Unbundled FAR amount w/FFU	\$24,100	SCG RD model/Misc Inputs	
BBT %	\$0	SCG RD model/Misc Inputs	
Local %	\$0	SCG RD model/Misc Inputs	
Proposed BTS Rate SFV \$/dth/day	\$0.18703	SCG Rate Tables	
Current BTS Rate SFV \$/dth/day	\$0.15777		

Data TO SCG RD Model		Model / Source
SDGE AYTP mth/yr Res	319,982	Alloc Factors
SDGE AYTP mth/yr Core C&I	182,660	Alloc Factors
SDGE AYTP mth/yr NR A/C	0	
SDGE AYTP mth/yr Gas Eng	0	
SDGE AYTP mth/yr NGV	18,501	Alloc Factors
SDGE AYTP mth/yr Total Core	521,144	Alloc Factors
SDGE AYTP mth/yr Non Core C&I	44,975	Alloc Factors
SDGE AYTP mth/yr EG Tier 1	21,281	Alloc Factors
SDGE AYTP mth/yr EG Tier 2	648,600	Alloc Factors
SDGE AYTP mth/yr EOR	0	
SDGE AYTP mth/yr Total Retail Non Core	714,857	Alloc Factors
SDGE AYTP mth/yr Long Beach	0	
SDGE AYTP mth/yr SDG&E	0	
SDGE AYTP mth/yr Sout West Gas	0	
SDGE AYTP mth/yr Vernon	0	
SDGE AYTP mth/yr Total Whole sale	0	
SDGE AYTP mth/yr DGN	0	
SDGE AYTP mth/yr TBS	0	
SDGE AYTP mth/yr Total Non Core	714,857	Alloc Factors
SDGE AYTP mth/yr Total System \$000	1,236,000	Alloc Factors
SDGE CYTP mth/yr Res	354,198	Alloc Factors
SDGE CYTP mth/yr Core C&I	189,687	Alloc Factors
SDGE CYTP mth/yr NR A/C	0	
SDGE CYTP mth/yr Gas Eng	0	
SDGE CYTP mth/yr NGV	18,501	Alloc Factors
SDGE CYTP mth/yr Total Core	562,386	Alloc Factors
SDGE CYTP mth/yr Non Core C&I	44,975	Alloc Factors
SDGE CYTP mth/yr EG Tier 1	21,281	Alloc Factors
SDGE CYTP mth/yr EG Tier 2	648,600	Alloc Factors
SDGE CYTP mth/yr EOR	0	
SDGE CYTP mth/yr Total Retail Non Core	714,857	Alloc Factors
SDGE CYTP mth/yr Long Beach	0	
SDGE CYTP mth/yr SDG&E	0	
SDGE CYTP mth/yr Sout West Gas	0	
SDGE CYTP mth/yr Vernon	0	
SDGE CYTP mth/yr Total Whole sale	0	
SDGE CYTP mth/yr DGN	0	
SDGE CYTP mth/yr TBS	0	
SDGE CYTP mth/yr Total Non Core	714,857	Alloc Factors
SDGE CYTP mth/yr Total System \$000	1,277,243	Alloc Factors
SDGE's Core AYTP Mth/yr	521,144	Alloc Factors
NCCI-Distribution AYTP mth/yr	27,807	Alloc Factors
EG-Tier 1 Distribution AYTP mth/yr	19,210	Alloc Factors
EG-Tier 2 Distribution AYTP mth/yr	76,596	Alloc Factors
SDGE's Core # customers	914,927	Alloc Factors

NCCI-Distribution # customers	42	Alloc Factors
EG-Tier 1 Distribution # customers	46	Alloc Factors
EG-Tier 2 Distribution # customers	7	Alloc Factors
NCCI-Transmission AYTP mth/yr	17,168	Alloc Factors
EG-Tier 1 Transmission AYTP mth/yr	2,071	Alloc Factors
EG-Tier 2 Transmission AYTP mth/yr	572,004	Alloc Factors
NCCI-Transmission # customers	10	Alloc Factors
EG-Tier 1 Transmission # customers	5	Alloc Factors
EG-Tier 2 Transmission # customers	13	Alloc Factors
Transmission Costs w/FFU \$000	\$38,229	SDGE RD Model/Cost Alloc
Compressor Volumes mth/yr	744	SDGE RD Model / NGV Rates
SDGE - NCCI-T Total Allocated Base Margin w/SI, FAR & FFU, w/o Fuel Use	\$171	SDGE RD Model / Detail Alloc
SDGE - NCCI-T Local Transmission Costs	\$90	SDGE RD Model / Detail Alloc
SDGE - NCCI-T HPD Costs	\$0	SDGE RD Model / Detail Alloc
SDGE - NCCI-T MPD Costs	\$0	SDGE RD Model / Detail Alloc
SDGE - NCCI-T Other Operating Costs and Revenues	\$174	SDGE RD Model / Detail Alloc
SDGE - NCCI-T Regulatory Accounts	(\$369)	SDGE RD Model / Detail Alloc
SDGE - NCCI-T ITBA Base Margin	\$21	SDGE RD Model / Detail Alloc
SDGE - EG-T ITBA Base Margin	\$691	SDGE RD Model / Detail Alloc
SDGE - NCCI-T Transport Rev Req w/o BBT, w/ FFU & EOR Cr \$000/yr	(\$25)	SDGE RD Model / Detail Alloc
SDGE - EG-T Total Allocated Base Margin w/SI, FAR & FFU, w/o Fuel Use	\$3,308	SDGE RD Model / Detail Alloc
SDGE - EG-T Local Transmission Costs	\$3,203	SDGE RD Model / Detail Alloc
SDGE - EG-T HPD Costs	\$0	SDGE RD Model / Detail Alloc
SDGE - EG-T MPD Costs	\$0	SDGE RD Model / Detail Alloc
SDGE - EG-T Other Operating Costs and Revenues	\$5,489	SDGE RD Model / Detail Alloc
SDGE - EG-T Regulatory Accounts	(\$11,047)	SDGE RD Model / Detail Alloc
SDGE CYPM mth/mo Res	51,533	SDGE RD Model / Alloc Factors
SDGE CYPM mth/mo Core C&I	20,381	SDGE RD Model / Alloc Factors
SDGE CYPM mth/mo NR A/C	0	
SDGE CYPM mth/mo Gas Eng	0	
SDGE CYPM mth/mo NGV	1,606	SDGE RD Model / Alloc Factors
SDGE CYPM mth/mo Total Core	73,520	SDGE RD Model / Alloc Factors
SDGE CYPM mth/mo Non Core C&I	3,970	SDGE RD Model / Alloc Factors
SDGE CYPM mth/mo EG Tier 1	1,757	SDGE RD Model / Alloc Factors
SDGE CYPM mth/mo EG Tier 2	60,239	SDGE RD Model / Alloc Factors
SDGE CYPM mth/mo EOR	0	
SDGE CYPM mth/mo Total Retail Non Core	65,967	SDGE RD Model / Alloc Factors
SDGE CYPM mth/mo Long Beach	0	
SDGE CYPM mth/mo SDG&E	0	
SDGE CYPM mth/mo Sout West Gas	0	
SDGE CYPM mth/mo Vernon	0	
SDGE CYPM mth/mo Total Whole sale	0	
SDGE CYPM mth/mo DGN	0	
SDGE CYPM mth/mo TBS	0	
SDGE CYPM mth/mo Total Non Core	65,967	SDGE RD Model / Alloc Factors
SDGE CYPM mth/mo Total System \$000	139,487	SDGE RD Model / Alloc Factors

SDGE NonCore Embedded Customer Related Costs \$000	\$851	SDGE RD Model/Cost Alloc
SDGE NonCore Embedded Medium Pressure Distribution Costs \$000	\$2,265	SDGE RD Model/Cost Alloc
SDGE Non Core Embedded High Pressure Distribution Costs \$000	\$0	
SDGE NonCore Embedded Transmission Costs \$000	\$21,396	SDGE RD Model/Cost Alloc
SDGE NonCore Embedded Storage - Seasonal \$000	\$0	SDGE RD Model/Cost Alloc
SDGE NonCore Embedded Storage - Load Balancing \$000	\$0	SDGE RD Model/Cost Alloc
SDGE NonCore Embedded Storage - TBS \$000	\$0	
SDGE NonCore Embedded Non-DSM Marketing Related Costs \$000	\$0	
SDGE NonCore Embedded Credit (EOR Revenues - EOR UAF) * 95% \$000	\$0	
SDGE NonCore Embedded Less Allocated Transmission Cost \$000	\$0	SDGE RD Model/Cost Alloc
SDGE NonCore Embedded Plus Allocated Local T under SI \$000	\$8,278	SDGE RD Model/Cost Alloc
Total Margin Allocation w/o SI, FAR, Fuel Use, FF&U	\$305,893	SDGE RD Model/Cost Alloc
Other Op	\$3,577	SDGE RD Model/Cost Alloc
SCG Storage Charges	\$11,350	SDGE RD Model/Cost Alloc
Reg Accounts	(\$30,337)	SDGE RD Model/Cost Alloc
Less EC Transmission	(\$38,229)	SDGE RD Model/Cost Alloc
Plus Local-T	\$0	SDGE RD Model/Cost Alloc
plus FAR revenue	\$24,600	SDGE RD Model/Cost Alloc
less local-T noncore trans cust costs	\$2,275	SDGE RD Model/Revenue Check
plus Reg Gap Revenue	\$7,765	SDGE RD Model/Revenue Check
plus new SCG Transport (i.e.RegGap SDGE C&D)	\$6,527	SDGE RD Model/Cost Alloc
SW Adjustments	\$4,887	SDGE RD Model/Revenue Check
EG Tier 1-D Pre-SW Total revenue \$000/yr	\$303	SDGE RD Model/EG-D Rates
EG Tier 1-D AYTP Mth/yr	19,210	SDGE RD Model/EG-D Rates
EG Tier 1-D Customer Charge Revenue \$000	\$28	SDGE RD Model/EG-D Rates
EG Tier 2-D Pre-SW Total revenue \$000/yr	(\$44)	SDGE RD Model/EG-D Rates
EG Tier 2-D AYTP Mth/yr	76,596	SDGE RD Model/EG-D Rates
EG Tier 2-D Customer Charge Revenue \$000	\$0	SDGE RD Model/EG-D Rates
EG Tier 1 Pre-SW Total revenue NoTLS \$000/yr	n/a	SDGE RD Model/EG Rates NoTLS
EG Tier 1 Customer Charge Revenue \$000	n/a	SDGE RD Model/EG Rates NoTLS
EG Tier 2 Pre-SW Total revenue NoTLS \$000/yr	n/a	SDGE RD Model/EG Rates NoTLS
EG Tier 1 NoTLS AYTP Mth/yr	21,281	SDGE RD Model/Alloc Factors
EG Tier 2 NoTLS AYTP Mth/yr	648,600	SDGE RD Model/Alloc Factors
Final Rev Req \$000	\$281,986	SDGE RD Model/Rate Tables
Pre-SW NGV Transportation Volumetric Revenue	\$538	SDGE RD Model / NGV Rates
Pre-SW NGV Customer Charge Revenue	\$12	SDGE RD Model / NGV Rates
NGV Transportation volumes mth/yr	18,501	SDGE RD Model / NGV Rates
NGV Post SW Customer Charge Revenue:	\$12	SDGE RD Model / NGV Rates
Pre SW NGV Compressor Revenue \$000	\$494	SDGE RD Model / NGV Rates
NGV Compressor Volumes Mth/yr	744	SDGE RD Model / NGV Rates
SDGE NCCI-T Direct Peak Day Demand Mth/day	49	SDGE RD Model / Alloc Factors
SDGE EG-T Direct Peak Day Demand Mth/day	1,987	SDGE RD Model / Alloc Factors
SDGE Core Cumulative Transmission Peak Day Mth/day	3,859	SDGE RD/Alloc Factors
SDGE Noncore Cumulative HP Distribution Peak Day Mth/day	348	SDGE RD/Alloc Factors
SDGE Core & Dist Forecast AYTP Mth/yr	644,757	SDGE RD/Alloc Factors
SDGE Core & Dist Forecast CYTP Mth/yr	686,000	SDGE RD/Alloc Factors
SDGE Core & Dist Forecast # Customers	915,022	SDGE RD/Alloc Factors
SDGE Core & Dist Forecast CYPM Mth/mo	84,010	SDGE RD/Alloc Factors

SDGE NCCI-T Forecast AYTP Mth/yr	17,168	SDGE RD/Alloc Factors
SDGE NCCI-T Forecast CYTP Mth/yr	17,168	SDGE RD/Alloc Factors
SDGE NCCI-T Forecast # Customers	10	SDGE RD/Alloc Factors
SDGE NCCI-T Forecast CYPM Mth/mo	1,516	SDGE RD/Alloc Factors
SDGE EG-T Forecast AYTP Mth/yr	574,075	SDGE RD/Alloc Factors
SDGE EG-T Forecast CYTP Mth/yr	574,075	SDGE RD/Alloc Factors
SDGE EG-T Forecast # Customers	18	SDGE RD/Alloc Factors
SDGE EG-T Forecast CYPM Mth/mo	53,961	SDGE RD/Alloc Factors
SDGE Local-T Costs Res	\$0	SDGE RD Model/Cost Alloc
SDGE Local-T Costs CCI	\$0	SDGE RD Model/Cost Alloc
SDGE Local-T Costs NGV	\$0	SDGE RD Model/Cost Alloc
SDGE Local-T Costs NCCI	\$0	SDGE RD Model/Cost Alloc
SDGE Local-T Costs EG Tier 1	\$0	SDGE RD Model/Cost Alloc
SDGE Local-T Costs EG Tier2	\$0	SDGE RD Model/Cost Alloc
SDGE BBT Costs Res	\$10,601	SDGE RD Model/Cost Alloc
SDGE BBT Costs CCI	\$5,677	SDGE RD Model/Cost Alloc
SDGE BBT Costs NGV	\$554	SDGE RD Model/Cost Alloc
SDGE BBT Costs NCCI	\$1,346	SDGE RD Model/Cost Alloc
SDGE BBT Costs EG Tier 1	\$637	SDGE RD Model/Cost Alloc
SDGE BBT Costs EG Tier2	\$19,413	SDGE RD Model/Cost Alloc
SDGE CoUse Transmission Costs	\$0	SDGE RD Model/Misc Inputs
SDGE Forecast AYTP Mth/yr Core	521,144	SDGE RD/Alloc Factors
SDGE Forecast AYTP Mth/yr NCCI-D	27,807	SDGE RD/Alloc Factors
SDGE Forecast AYTP Mth/yr EG-D	95,807	SDGE RD/Alloc Factors
SDGE Forecast CYTP Mth/yr Core	562,386	SDGE RD/Alloc Factors
SDGE Forecast CYTP Mth/yr NCCI-D	27,807	SDGE RD/Alloc Factors
SDGE Forecast CYTP Mth/yr EG-D	95,807	SDGE RD/Alloc Factors
SDGE Forecast # Customers Core	914,927	SDGE RD/Alloc Factors
SDGE Forecast # Customers NCCI-D	42	SDGE RD/Alloc Factors
SDGE Forecast # Customers EG-D	53	SDGE RD/Alloc Factors
SDGE Forecast CYPM Mth/yr Core	73,520	SDGE RD/Alloc Factors
SDGE Forecast CYPM Mth/yr NCCI-D	2,455	SDGE RD/Alloc Factors
SDGE Forecast CYPM Mth/yr EG-D	8,036	SDGE RD/Alloc Factors
SDGE FFU Rate	102.33%	SDGE RD/Cost Alloc
FFU Rate Gross-to-Net Ratio	97.72%	SDGE RD/Misc Inputs
SDGE Mbtu/mcf	1,020	SDGE RD/Misc Inputs
Authorized Base Margin in 2008GRC (excl misc revenue) \$000	\$286,919	SDGE RD/Revenue Check
Current Authorized Base Margin	\$305,893	SDGE RD/Revenue Check
Net System Integration	(\$29,951)	SDGE RD/Revenue Check
Other Operate Costs	\$21,454	SDGE RD/Revenue Check
Regulatory Accounts	(\$30,337)	SDGE RD/Revenue Check
SW NGV Adjustment	\$1,130	SDGE RD/Revenue Check
SW EG Adjustment	\$3,757	SDGE RD/Revenue Check
SW NGV & EG Adjustment	\$4,887	SDGE RD/Revenue Check
NET TLS Adjustment	\$10,040	SDGE RD/Revenue Check
Revenue Requirement w/oFAR	\$281,986	SDGE RD/Revenue Check
Total Allocated Base Margin post-SI, post-FAR Unbundle, w/ FFU	\$275,942	SDGE RD/Revenue Check
CSITMA allocated to SDGE's NCCI-T customers \$000	\$19	NCCI Detail Alloc
CSITMA allocated to SDGE's EG-T customers \$000	\$0	EG Detail Alloc

EFBA EG-D Tier 1	(\$1)	EG Detail Alloc
EFBA EG-D Tier 2	(\$3)	EG Detail Alloc
EFBA EG-T	(\$4)	EG Detail Alloc
EFBA NCCI-T	(\$1)	NCCI Detail Alloc
EFBA EG-T nonexempt volumes	\$102,991	EG Detail Alloc
EFBA NCCI-T nonexempt volumes	17,168	NCCI Detail Alloc

SAN DIEGO GAS & ELECTRIC
2016 Phase II TCAP

Section 2
NGV Compression Rate Adder Model

Workpapers to the Prepared Written Testimony of
Jason Bonnett

2016 TCAP Phase II Application
 NGV Compression Adder Revenue Requirement

NGV Station Costs \$000's	Total Public & Private Access		Public Access Station		Data Source
	\$000's/yr	\$/th	\$000's/yr	\$/th	
NGV Station Rate Base	\$60	\$0.07	\$26	\$0.04	Return tab
Rate of Return %	7.79%		7.79%		Return tab
Return on Ratebase	\$5	\$0.01	\$2	\$0.00	
Income Taxes	\$2	\$0.00	\$1	\$0.00	Return Tab
Ad Valorem Taxes	\$1	\$0.00	\$0	\$0.00	Return Tab
Depreciation Expense	\$45	\$0.06	\$14	\$0.02	NGV Dept
Capital Related Revenue Requirement	\$53	\$0.07	\$18	\$0.02	
NGV Station Throughput in CCF	816,580		744,447		
O&M Expense \$/th =	\$0.410	\$0.41	\$0.41	\$0.41	NGV Dept
Electricity Expense \$/th =	\$0.230	\$0.23	\$0.23	\$0.23	NGV Dept
Customer Related O&M	\$523	\$0.64	\$476	\$0.64	
Effective NGV Station Revenue Requirement	\$576	\$0.71	\$494	\$0.66	
Total NGV Station Throughput in therms	816,580		744,447		NGV Dept
Compression Throughput Mth/year	817	817	744	744	
Compression Rate \$/therm	\$0.71		\$0.66		
Sempra Wide Compressor Adder \$/therm			\$1.03712		SDGE RD model/Rate tables

2016 TCAP Phase II Application
 Calculation of Capital Related costs

Calculation of NGV Station Capital related Costs	Total Public & Private Access \$000's/yr	Public Access Station \$000's/yr	Data Source
NBV of NGV Stations	\$112	\$49	Recorded 2014
Total NBV of Utility Gas Plant in Service	\$1,077,525	\$1,077,525	
NBV Ratio	0.01%	0.00%	
Total Utility Rate Base	\$577,495	\$577,495	Recorded 2014
NBV Ratio	0.01%	0.00%	
NGV Station Ratebase	\$60	\$26	
Total Utility Income & CNG Fuel taxes	\$23,148	\$23,148	FERC Form 1 p. 115, Column I Lines 15-19
NBV Ratio	0.01%	0.00%	
NGV Station Income & CNG Fuel taxes	\$2	\$1	
Total Utility AdValorem taxes	\$10,440	\$10,440	FERC Form 1 p. 263
NBV Ratio	0.01%	0.00%	
NGV Station Income & CNG Fuel taxes	\$1	\$0	

Calculation of Authorized ROR% and Total Return on Ratebase:

	Capital Ratio	Rate	ROR%
Long-Term Debt	45.25%	5.00%	2.26%
Preferred Stock	2.75%	6.22%	0.17%
Common Equity	52.00%	10.30%	5.36%
Total ROR%	100%		7.79%

2016 TCAP Phase II

Subtotal Net Utility Plant - Gas	\$941,263
Common plant	\$541,153
Percentage of Common plant assigned to gas	25%
Subtotal of Common Plant assigned to gas	\$136,262
Applicable Net Plant - Gas	\$1,077,525

Data Source

FERC Form 1 p. 201, Column d Line 15

FERC Form 1 p. 201, Column h Line 15

FERC Form 1 p. 356.1

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2016 Phase II TCAP

Section 3
Submeter Credit Model

Workpapers to the Prepared Written Testimony of
Jason Bonnett

Submetering Avoided Cost Credit -GT

>> For mobile home parks supplied through one meter and submetered to all individual units (Schedule GT).
 >> Due to Use of Subunit, Traditional Meter Capital and O&M Expenses Are Avoided. However, Savings Offset By Incurred Master Meter Capital and O&M Expenses.
 >> Master Meter Capital and O&M Expenses are Quantified on a Per Subunit Basis.
 >> Net Submetering Avoided Cost Credit = (Traditional Meter Capital and O&M) - (Master Meter Capital and O&M ÷ Average No. of Subunits Per Master Meter)
 >> Adopted Proposal = Western Mobilehome Parkowners Association. From Exhibit No. 186, As Filed w/Scaling.

**SDG&E GT Submeter Discount
 2016 TCAP Phase II Application**

		Avoided Cost Per Subunit (Single Family) (\$/cst/yr.)	Incurred Cost Per GT Master Meter (\$/cst/yr.)		Source
Plant Costs					
1	Service/Regulation/Meter	\$187.20	\$1,021.61	1	SDGE LRM Customer Cost
2	Distribution Main (High Pressure)	\$24.46	\$24.46	2	SDGE LRM Distribution
3	Net Annual Cost/Space	\$211.66	\$1,046.07	3	SDGE LRM Customer Cost
Customer Expenses					
4	O&M	\$42.94	\$377.06	5	SDGE LRM Customer Cost
5	O&M Loaders	\$18.06	\$158.63	6	SDGE LRM Customer Cost
6	Net Customer Expenses	\$61.00	\$535.69	7	SDGE LRM Customer Cost
7					
8	Subtotal - Annual Costs	\$272.66	\$1,581.76	8	
9	x EPAM Scaling Factor	80.90%	80.90%	9	SDGE Cost Allocation
10	= Avoided / Incurred Cost / Yr	\$220.58	\$1,279.62	10	
11	÷ Number Months / Year	12	12	11	
12	= Avoided / Incurred Cost / Mo	\$18.38	\$106.64	12	
13	÷ Avg No. of Subunits Per Master Meter Account	1	115	13	Recorded 2014
14	= Incurred Cost Per Living Unit for Master Meter		\$0.93	14	
15	Net Avoided Cost / Month	\$17.45		15	<< Net of (Avoided Subunit Costs) - (Incurred Master Meter Costs) Per Subunit.
16	- SDG&E Monthly Cust Charge	\$5.00		16	
17	Submeter Credit / Month	\$12.45		17	
18	x Number Months / Year	12		18	
19	Submeter Credit / Year	\$149.40		19	
20	÷ Number Days / Year	365		20	
21	= Submeter Credit / Day	\$0.40932		21	

Submetering Avoided Cost Credit -GS

>> For multi-family dwelling units supplied through one meter and submetered to all individual units (Schedule GS).
 >> Due to Use of Subunit, Traditional Meter Capital and O&M Expenses Are Avoided. However, Savings Offset By Incurred Master Meter Capital and O&M Expenses.
 >> Master Meter Capital and O&M Expenses are Quantified on a Per Subunit Basis.
 >> Net Submetering Avoided Cost Credit = (Traditional Meter Capital and O&M) - (Master Meter Capital and O&M ÷ Average No. of Subunits Per Master Meter)
 >> Adopted Proposal = Western Mobilehome Parkowners Association. From Exhibit No. 186, As Filed w/Scaling.

**SDG&E GS Submeter Discount
 2016 TCAP Phase II Application**

		Avoided Cost Per Subunit (Single Family) (\$/cst/yr.)	Incurred Cost Per GS Master Meter (\$/cst/yr.)		Source
Plant Costs					
1	Service/Regulation/Meter	\$187.20	\$431.30	1	SDGE LRM Customer Cost
2	Distribution Main (High Pressure)	\$24.46	\$24.46	2	SDGE LRM Distribution
3	Net Annual Cost/Space	\$211.66	\$455.76	3	SDGE LRM Customer Cost
Customer Expenses					
4	O&M	\$42.94	\$148.93	4	SDGE LRM Customer Cost
5	O&M Loaders	\$18.06	\$62.66	6	SDGE LRM Customer Cost
6	Net Customer Expenses	\$61.00	\$211.59	7	SDGE LRM Customer Cost
7					
8	Subtotal - Annual Costs	\$272.66	\$667.35	8	
9	x EPAM Scaling Factor	80.90%	80.90%	9	SDGE Cost Allocation
10	= Avoided / Incurred Cost / Yr	\$220.58	\$539.88	10	
11	+ Number Months / Year	12	12	11	
12	= Avoided / Incurred Cost / Mo	\$18.38	\$44.99	12	
13	+ Avg No. of Subunits Per Master Meter Account	1	26	13	Recorded 2014
14	= Incurred Cost Per Living Unit for Master Meter		\$1.74	14	
15	Net Avoided Cost / Month	\$16.64		15	<< Net of (Avoided Subunit Costs) - (Incurred Master Meter Costs) Per Subunit.
16	- SDG&E Monthly Cust Charge	\$5.00		16	
17	Submeter Credit / Month	\$11.64		17	
18	x Number Months / Year	12		18	
19	Submeter Credit / Year	\$139.68		19	
20	+ Number Days / Year	365		20	
21	= Submeter Credit / Day	\$0.38268		21	