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APPENDIX J

RATES

APPENDIX J

Pacific Gas and Electric Company
2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Rates

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2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 1

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative End-Use Class Average Rates ($/dth) (e)

Line No.		Rates Effective January 1, 2014 with Adopted 2014 GT&S Components and PSEP Update (a)	Rates Effective January 1, 2014 with Adopted 2015 GT&S (Year 2015 Components)	$ Change (d)	% Change	Rates Effective Janaury 1, 2016	Rates Effective January 1, 2016 with Adopted 2015 GT&S (Year 2016 Components)	$ Change (d)	% Change
	Core Retail Bundled Service (c)								
1	Residential Non-CARE**/***	12.215	13.114	0.899	7.4%	14.727	16.301	1.574	10.7%
2	Small Commercial Non-CARE**	9.372	10.247	0.875	9.3%	9.607	11.147	1.540	16.0%
3	Large Commercial	7.296	8.148	0.852	11.7%	6.870	8.350	1.481	21.6%
4	Uncompressed Core NGV	6.408	7.258	0.850	13.3%	5.183	6.658	1.475	28.5%
5	Compressed Core NGV	18.941	19.791	0.850	4.5%	20.960	22.435	1.475	7.0%
	Core Retail Transport Only (d)								
6	Residential Non-CARE**/***	6.951	7.680	0.729	10.5%	10.900	12.275	1.375	12.6%
7	Small Commercial	4.310	5.039	0.729	16.9%	5.960	7.335	1.375	23.1%
8	Large Commercial	2.626	3.354	0.729	27.8%	3.541	4.916	1.375	38.8%
9	Uncompressed Core NGV	1.731	2.459	0.729	42.1%	1.876	3.251	1.375	73.3%
10	Compressed Core NGV	14.264	14.993	0.729	5.1%	17.653	19.029	1.375	7.8%
	Noncore Retail Transportation Only (d)								
11	Industrial – Distribution	1.883	2.162	0.279	14.8%	2.386	2.959	0.573	24.0%
12	Industrial – Transmission	0.868	1.140	0.272	31.3%	0.788	1.352	0.564	71.6%
13	Industrial – Backbone	0.477	0.430	(0.048)	-10.0%	0.457	0.449	-0.008	-1.7%
14	Uncompressed Noncore NGV – Distribution	1.767	2.046	0.279	15.8%	2.191	2.764	0.573	26.1%
15	Uncompressed Noncore NGV – Transmission	0.747	1.019	0.272	36.4%	0.613	1.177	0.564	92.0%
16	Electric Generation – Distribution/Transmission	0.496	0.773	0.276	55.7%	0.366	0.934	0.568	155.4%
17	Electric Generation – Backbone	0.162	0.123	(0.039)	-24.1%	0.124	0.124	0.000	0.1%
	Wholesale Transportation Only (d)								
18	Alpine Natural Gas	0.485	0.739	0.254	52.4%	0.364	0.912	0.549	150.8%
19	Coalinga	0.493	0.742	0.248	50.4%	0.373	0.916	0.544	145.9%
20	Island Energy	0.685	0.845	0.160	23.3%	0.568	1.039	0.470	82.8%
21	Palo Alto	0.444	0.717	0.273	61.4%	0.322	0.887	0.565	175.1%
22	West Coast Gas - Castle	1.592	1.794	0.202	12.7%	2.397	2.899	0.503	21.0%
23	West Coast Gas - Mather D	1.861	2.091	0.229	12.3%	2.964	3.490	0.526	17.7%
24	West Coast Gas - Mather T	0.522	0.751	0.229	43.9%	0.402	0.927	0.526	130.9%

Notes:

a) 2014 rates are based on PG&E's January 2014 Transportation Rate Change Filing (Advice Letter 3374-G), the 2014 GT&S Rate Components filed in Advice Letter 3360-G, and the Pipeline Safety Enhancement Plan Update rates filed in A.13-10-017. 2015 impacts reflect the adopted 2015 GT&S rate components compared to the 2014 GT&S rate components.

b) 2016 rates are based on PG&E's 2016 Annual Gas True-up (AGT) filing per Advice Letter 3644-G and Gas Accord V rates filed in Advice Letter 3547-G.

c) PG&E's bundled gas service is available to core customers only. Intrastate backbone transmission and storage costs addressed in this proceeding, are included in end use rates paid by bundled core customers. Bundled service also includes a procurement cost for gas purchases, shrinkage, transportation on Canadian and Interstate pipelines, core brokerage, and franchise fees and uncollectibles expense. The illustrative annual average rates for these elements are based on the illustrative revenue requirements shown on PG&E's Preliminary Statement Part C2, last updated with Advice Letters 3374-G for 2014 and 3664-G for 2016. Core bundled rates also includes the cost of transportation and delivery of gas from the citygate to the customer's burnertip, including local transmission, distribution, customer access, public purpose, and mandated programs and other charges.

d) PG&E's transportation-only gas service is for core and noncore customers. Transportation-only service begins at PG&E's citygate and includes the applicable costs of gas transportation and delivery on PG&E's local transmission, including distribution, customer access, public purpose programs and customer class charges. Transportation-only rates exclude backbone transmission and storage costs.

e) Rates are class average rates. Actual transportation rates will vary depending on the customer's load factor and seasonal usage.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 2

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative End-Use Noncore and Wholesale Class Average Rates with Procurement Proxy (a)

($/dth) (d)

Line No.		Rates Effective January 1, 2014 with Adopted 2014 GT&S Components and PSEP Update (a)	Rates Effective January 1, 2014 with Adopted 2015 GT&S (Year 2015 Components)	$ Change (d)	% Change	Rates Effective Janaury 1, 2016	Rates Effective January 1, 2016 with Adopted 2015 GT&S (Year 2016 Components)	$ Change (d)	% Change
	Noncore Retail with Procurement Proxy								
1	Industrial – Distribution	5.853	6.137	0.284	4.9%	5.692	6.365	0.673	11.8%
2	Industrial – Transmission	4.838	5.115	0.277	5.7%	4.095	4.759	0.664	16.2%
3	Industrial – Backbone	4.448	4.405	(0.042)	-1.0%	3.763	3.856	0.092	2.5%
4	Uncompressed Noncore NGV – Distribution	5.737	6.021	0.284	5.0%	5.498	6.171	0.673	12.2%
5	Uncompressed Noncore NGV – Transmission	4.718	4.995	0.277	5.9%	3.920	4.584	0.664	16.9%
6	Electric Generation – Distribution/Transmission	4.466	4.748	0.281	6.3%	3.672	4.341	0.668	18.2%
7	Electric Generation – Backbone	4.132	4.098	(0.034)	-0.8%	3.431	3.531	0.100	2.9%
	Wholesale with Procurement Proxy								
8	Alpine Natural Gas	4.455	4.714	0.259	5.8%	3.670	4.319	0.649	17.7%
9	Coalinga	4.464	4.717	0.253	5.7%	3.679	4.323	0.644	17.5%
10	Island Energy	4.655	4.820	0.165	3.5%	3.875	4.445	0.570	14.7%
11	Palo Alto	4.414	4.692	0.278	6.3%	3.629	4.294	0.665	18.3%
12	West Coast Gas - Castle	5.562	5.769	0.206	3.7%	5.703	6.306	0.603	10.6%
13	West Coast Gas - Mather D	5.832	6.066	0.234	4.0%	6.271	6.896	0.626	10.0%
14	West Coast Gas - Mather T	4.492	4.726	0.234	5.2%	3.708	4.334	0.626	16.9%

Notes:

a) Proxy based on average core gas commodity costs and Canadian, interstate, intrastate backbone and transmission shrinkage costs.

b) 2014 rates are based on PG&E's January 2014 Transportation Rate Change Filing (Advice Letter 3374-G), the 2014 GT&S Rate Components filed in Advice Letter 3360-G, and the Pipeline Safety Enhancement Plan Update rates filed in A.13-10-017. 2015 impacts reflect the adopted 2015 GT&S rate components compared to the 2014 GT&S rate components.

c) 2016 rates are based on PG&E's 2016 Annual Gas True-up (AGT) filing per Advice Letter 3644-G and Gas Accord V rates filed in Advice Letter 3547-G.

d) Rates are class average rates. Actual transportation rates will vary depending on the customer's load factor and seasonal usage.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 3

PACIFIC GAS AND ELECTRIC COMPANY

2014 Average Rate Detail with 2014 GT&S and PSEP Components By End-Use Customer Class (a)

($/dth)

	Core					Noncore Transportation						
						Industrial			Natural Gas Vehicle		Electric Gen	
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission & Rate Adders	0.4333	0.4333	0.4333	0.4333	0.4333	0.2121	0.2121	0.0068	0.2121	0.2121	0.2121	0.0068
PSEP	0.2864	0.2864	0.2864	0.2864	0.2864	0.1521	0.1521	0.0320	0.1521	0.1521	0.1521	0.0320
Distribution (b)	4.8237	2.1258	0.9153	0.4825	12.5911	0.9827	0.0641		0.9827		0.0201	0.0201
Mandated Customer Programs and Other Charges:												
Self Generation Incentive Program	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080
CPUC and ARB Fee	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0312	0.0312
Balancing Accounts	0.7072	0.4421	0.1862	0.2299	0.6663	0.0544	0.0764	0.0778	0.0544	0.0778	0.0617	0.0617
Volumetric End-Use Rate	6.2964	3.3334	1.8669	1.4778	14.0229	1.4471	0.5505	0.1624	1.4471	0.4878	0.4852	0.1598
Customer/ Customer Access Charge (c)	0.0000	0.5888	0.0449	0.0120		0.0788	0.0186	0.0157	0.0788	0.0186	0.0109	0.0019
Total End-Use Rate	6.2964	3.9222	1.9118	1.4898	14.0229	1.5259	0.5692	0.1782	1.5259	0.5065	0.4961	0.1618
Gas Public Purpose Program Surcharge	0.6551	0.3878	0.7137	0.2408	0.2408	0.3568	0.2990	0.2990	0.2408	0.2408	0.0000	0.0000
Total Rate	6.9515	4.3100	2.6255	1.7306	14.2637	1.8827	0.8682	0.4772	1.7667	0.7473	0.4961	0.1618
Procurement Charges for Core Bundled Customers:												
Storage	0.2008	0.1723	0.1177	0.1103	0.1103							
Backbone Capacity	0.2364	0.2009	0.1271	0.1232	0.1232							
Backbone Usage	0.1148	0.1148	0.1148	0.1148	0.1148							
WACOG	3.7184	3.7184	3.7184	3.7184	3.7184							
Interstate Capacity and Other	0.9933	0.8551	0.5924	0.6109	0.6109							
Total Core Procurement	5.2637	5.0615	4.6704	4.6776	4.6776							
Total Core Bundled Rates	12.2152	9.3715	7.2959	6.4082	18.9413							

	Wholesale Transportation						
End-Use Transportation:	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans
Local Transmission & Rate Adders	0.2121	0.2121	0.2121	0.2121	0.2121	0.2121	0.2121
PSEP	0.1521	0.1521	0.1521	0.1521	0.1521	0.1521	0.1521
Distribution	0.0000	0.0000	0.0000	0.0000	1.0354	1.3710	0.0000
Mandated Customer Programs and Other Charges:							
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Balancing Accounts	0.0620	0.0620	0.0620	0.0620	0.0384	0.0308	0.0620
Volumetric End-Use Rate	0.4262	0.4262	0.4262	0.4262	1.4380	1.7660	0.4262
Customer/ Customer Access Charge (c)	0.0585	0.0670	0.2589	0.0179	0.1540	0.0954	0.0954
Total End-Use Rate	0.4847	0.4932	0.6851	0.4441	1.5921	1.8615	0.5216
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Rate	0.4847	0.4932	0.6851	0.4441	1.5921	1.8615	0.5216

Notes:

a) Class average rates reflect average load shape within each class and average volumetric equivalent for fixed charges.

b) All non-GT&S rate components reflect annual average rates effective April 1, 2013 (Advice Letters 3373-G and 3374-G)

c) Customer access and customer charges represent the class average volumetric equivalent of the monthly charge.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 4

PACIFIC GAS AND ELECTRIC COMPANY

2014 Average Rate Detail with Proposed 2015 GT&S Components By End-Use Customer Class

($/dth)

	Core					Noncore Transportation						
						Industrial			Natural Gas Vehicle		Electric Gen	
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission & Rate Adders	1.4485	1.4485	1.4485	1.4485	1.4485	0.6463	0.6463	0.0000	0.6463	0.6463	0.6463	0.0000
Distribution	4.8237	2.1258	0.9153	0.4825	12.5911	0.9827	0.0641	0.0000	0.9827	0.0000	0.0201	0.0201
Mandated Customer Programs and Other Charges:												
Self Generation Incentive Program	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080
CPUC Fee	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378	0.0312	0.0312
Balancing Accounts	0.7072	0.4421	0.1862	0.2299	0.6663	0.0544	0.0764	0.0778	0.0544	0.0778	0.0617	0.0617
Volumetric End-Use Rate	7.0252	4.0622	2.5957	2.2066	14.7517	1.7292	0.8326	0.1236	1.7292	0.7699	0.7673	0.1210
Customer/ Customer Access Charge	0.0000	0.5888	0.0449	0.0120	0.0000	0.0762	0.0086	0.0072	0.0762	0.0086	0.0053	0.0019
Total End-Use Rate	7.0252	4.6510	2.6406	2.2186	14.7517	1.8053	0.8412	0.1308	1.8053	0.7785	0.7726	0.1229
Gas Public Purpose Program Surcharge	0.6551	0.3878	0.7137	0.2408	0.2408	0.3568	0.2990	0.2990	0.2408	0.2408	0.0000	0.0000
Total Rate	7.6803	5.0388	3.3543	2.4594	14.9925	2.162	1.140	0.430	2.046	1.019	0.773	0.123
Procurement Charges for Core Bundled Customers:												
Storage	0.2477	0.2087	0.1446	0.1356	0.1356							
Backbone Capacity	0.2930	0.2443	0.1570	0.1521	0.1521							
Backbone Usage	0.0908	0.0908	0.0908	0.0908	0.0908							
WACOG	3.8092	3.8092	3.8092	3.8092	3.8092							
Interstate Capacity and Other	0.9933	0.8551	0.5924	0.6109	0.6109							
Total Core Procurement	5.4340	5.2081	4.7940	4.7987	4.7987							
Total Core Bundled Rates	13.1143	10.2469	8.1483	7.2581	19.7912							

	Wholesale Transportation						
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans
End-Use Transportation:							
Local Transmission & Rate Adders	0.6463	0.6463	0.6463	0.6463	0.6463	0.6463	0.6463
Distribution (b)	0.0000	0.0000	0.0000	0.0000	1.0354	1.3710	0.0000
Mandated Customer Programs and Other Charges:							
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Balancing Accounts	0.0620	0.0620	0.0620	0.0620	0.0384	0.0308	0.0620
Volumetric End-Use Rate	0.7083	0.7083	0.7083	0.7083	1.7201	2.0481	0.7083
Customer/ Customer Access Charge (c)	0.0302	0.0334	0.1367	0.0086	0.0735	0.0425	0.0425
Total End-Use Rate	0.7385	0.7416	0.8450	0.7169	1.7936	2.0906	0.7508
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Rate	0.7385	0.7416	0.8450	0.7169	1.7936	2.0906	0.7508

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 5

PACIFIC GAS AND ELECTRIC COMPANY

2016 AGT with Interim 2015 Gas Accord V (2014 Rev.Req plus 2% escalator)

($/dth)

	Core					Noncore Transportation						
						Industrial			Natural Gas Vehicle		Electric Gen	
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission & Rate Adders	0.4749	0.4749	0.4749	0.4749	0.4749	0.2325	0.2325	0.0000	0.2325	0.2325	0.2325	0.0000
Distribution	7.1577	3.1647	1.3674	0.7153	13.0056	1.4937	0.0943	0.0000	1.4937	0.0000	0.0296	0.0296
Mandated Customer Programs and Other Charges:												
Self Generation Incentive Program	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091
CPUC and AB32 Cost of Implementation Fee	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0112	0.0112
Balancing Accounts	2.2183	1.2650	0.5969	0.4015	3.9001	0.1161	0.0907	0.0890	0.1161	0.0890	0.0724	0.0724
Volumetric End-Use Rate	9.8803	4.9339	2.4685	1.6210	17.4100	1.8716	0.4468	0.1184	1.8716	0.3509	0.3547	0.1223
Customer/ Customer Access Charge	0.0000	0.5888	0.0449	0.0120	0.0000	0.0762	0.0190	0.0161	0.0762	0.0190	0.0111	0.0020
Total End-Use Rate	9.8803	5.5228	2.5134	1.6330	17.4100	1.9478	0.4658	0.1345	1.9478	0.3699	0.3658	0.1242
Gas Public Purpose Program Surcharge	1.0197	0.4371	1.0273	0.2433	0.2433	0.4379	0.3222	0.3222	0.2433	0.2433	0.0000	0.0000
Total Rate	10.9000	5.9599	3.5407	1.8763	17.6533	2.386	0.788	0.457	2.191	0.613	0.366	0.124
Procurement Charges for Core Bundled Customers:												
Storage	0.2055	0.1732	0.1200	0.1125	0.1125							
Backbone Capacity	0.2688	0.2241	0.1440	0.1395	0.1395							
Backbone Usage	0.1171	0.1171	0.1171	0.1171	0.1171							
WACOG	2.4353	2.4353	2.4353	2.4353	2.4353							
Interstate Capacity and Other	0.8004	0.6974	0.5125	0.5021	0.5021							
Total Core Procurement	3.8271	3.6471	3.3289	3.3066	3.3066							
Total Core Bundled Rates	14.7271	9.6070	6.8696	5.1829	20.9599							

	Wholesale						
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans
End-Use Transportation:							
Local Transmission & Rate Adders	0.2325	0.2325	0.2325	0.2325	0.2325	0.2325	0.2325
Distribution	0.0000	0.0000	0.0000	0.0000	1.9031	2.5200	0.0000
Mandated Customer Programs and Other Charges:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CPUC and AB32 Cost of Implementation Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Balancing Accounts	0.0717	0.0717	0.0717	0.0717	0.1038	0.1142	0.0717
Volumetric End-Use Rate	0.3042	0.3042	0.3042	0.3042	2.2394	2.8668	0.3042
Customer/ Customer Access Charge	0.0597	0.0683	0.2641	0.0183	0.1571	0.0973	0.0973
Total End-Use Rate	0.3638	0.3725	0.5683	0.3225	2.3965	2.9641	0.4015
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Rate	0.3638	0.3725	0.5683	0.3225	2.3965	2.9641	0.4015

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 6

PACIFIC GAS AND ELECTRIC COMPANY

2016 Average Rate Detail with Adopted 2015 GT&S (Year 2016) By End-Use Customer Class

($/dth)

	Core (a)					Noncore Transportation						
						Industrial			Natural Gas Vehicle		Electric Gen	
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission & Rate Adders	1.8501	1.8501	1.8501	1.8501	1.8501	0.8054	0.8054	0.0000	0.8054	0.8054	0.8054	0.0000
Distribution	7.1577	3.1647	1.3674	0.7153	13.0056	1.4937	0.0943	0.0000	1.4937	0.0000	0.0296	0.0296
Mandated Customer Programs and Other Charges:												
Self Generation Incentive Program	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091	0.0091
CPUC Fee	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0112	0.0112
Balancing Accounts	2.2183	1.2650	0.5969	0.4015	3.9001	0.1161	0.0907	0.0890	0.1161	0.0890	0.0724	0.0724
Volumetric End-Use Rate	11.2555	6.3091	3.8437	2.9962	18.7852	2.4445	1.0197	0.1184	2.4445	0.9237	0.9276	0.1223
Customer/ Customer Access Charge	0.0000	0.5888	0.0449	0.0120	0.0000	0.0762	0.0103	0.0084	0.0762	0.0103	0.0067	0.0021
Total End-Use Rate	11.2555	6.8980	3.8886	3.0082	18.7852	2.5207	1.0300	0.1268	2.5207	0.9341	0.9342	0.1244
Gas Public Purpose Program Surcharge	1.0197	0.4371	1.0273	0.2433	0.2433	0.4379	0.3222	0.3222	0.2433	0.2433	0.0000	0.0000
Total Rate	12.2752	7.3351	4.9159	3.2515	19.0285	2.959	1.352	0.449	2.764	1.177	0.934	0.124
Procurement Charges for Core Bundled Customers:												
Storage	0.2986	0.2516	0.1743	0.1634	0.1634							
Backbone Capacity	0.3862	0.3220	0.2069	0.2004	0.2004							
Backbone Usage	0.1053	0.1053	0.1053	0.1053	0.1053							
WACOG	2.4353	2.4353	2.4353	2.4353	2.4353							
Interstate Capacity and Other	0.8004	0.6974	0.5125	0.5021	0.5021							
Total Core Procurement	4.0258	3.8116	3.4343	3.4066	3.4066							
Total Core Bundled Rates	16.3010	11.1467	8.3502	6.6581	22.4351							

	Wholesale Transportation						
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans
End-Use Transportation:							
Local Transmission & Rate Adders	0.8054	0.8054	0.8054	0.8054	0.8054	0.8054	0.8054
Distribution	0.0000	0.0000	0.0000	0.0000	1.9031	2.5200	0.0000
Mandated Customer Programs and Other Charges:							
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Balancing Accounts	0.0717	0.0717	0.0717	0.0717	0.1038	0.1142	0.0717
Volumetric End-Use Rate	0.8771	0.8771	0.8771	0.8771	2.8123	3.4397	0.8771
Customer/ Customer Access Charge	0.0354	0.0391	0.1617	0.0102	0.0868	0.0502	0.0502
Total End-Use Rate	0.9125	0.9162	1.0388	0.8873	2.8991	3.4899	0.9273
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Rate	0.9125	0.9162	1.0388	0.8873	2.8991	3.4899	0.9273

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 7

PACIFIC GAS AND ELECTRIC COMPANY
Firm Backbone Transportation
Annual Rates (AFT) -- SFV Rate Design
On-System Transportation Service

		GA V 2014	GA V 2015 Update	2015 GT&S Rates 2015	2016	2017
Redwood Path - Core						
Reservation Charge	($/dth/mo)	6.3780	7.0192	8.9745	11.5831	13.0702
Usage Charge	($/dth)	0.0092	0.0074	0.0008	0.0010	0.0011
Total	($/dth @ Full Contract)	0.2188	0.2382	0.2959	0.3818	0.4308
Baja Path - Core						
Reservation Charge	($/dth/mo)	7.5567	8.2215	10.1877	12.7965	14.2838
Usage Charge	($/dth)	0.0104	0.0087	0.0010	0.0011	0.0012
Total	($/dth @ Full Contract)	0.2588	0.2790	0.3359	0.4218	0.4708
Redwood Path - Noncore						
Reservation Charge	($/dth/mo)	7.8577	8.6209	10.4735	13.5400	15.2479
Usage Charge	($/dth)	0.0080	0.0061	0.0008	0.0010	0.0011
Total	($/dth @ Full Contract)	0.2663	0.2896	0.3451	0.4461	0.5024
Baja Path - Noncore						
Reservation Charge	($/dth/mo)	9.0486	9.8356	11.6873	14.7539	16.4620
Usage Charge	($/dth)	0.0088	0.0070	0.0009	0.0011	0.0011
Total	($/dth @ Full Contract)	0.3063	0.3304	0.3851	0.4861	0.5424
Silverado and Mission Paths						
Reservation Charge	($/dth/mo)	4.4293	4.8477	6.5281	8.4972	9.5665
Usage Charge	($/dth)	0.0082	0.0063	0.0007	0.0008	0.0009
Total	($/dth @ Full Contract)	0.1538	0.1657	0.2153	0.2802	0.3154

Notes:

a) Rates are only the backbone transmission charge component of the transmission service. They include exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.

b) The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.

c) Customers delivering gas to storage pay the applicable backbone transmission on-system rate from Redwood, Baja and Silverado.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 8

PACIFIC GAS AND ELECTRIC COMPANY
Firm Backbone Transportation
Annual Rates (AFT) -- MFV Rate Design
On-System Transportation Service

		GA V 2014	GA V 2015 Update	2015 GT&S Rates 2015	2016	2017
Redwood Path - Core						
Reservation Charge	($/dth/mo)	4.5126	4.9663	6.7859	9.0237	10.1645
Usage Charge	($/dth)	0.0705	0.0749	0.0728	0.0852	0.0966
Total	($/dth @ Full Contract)	0.2188	0.2382	0.2959	0.3818	0.4308
Baja Path - Core						
Reservation Charge	($/dth/mo)	5.3466	5.8170	7.7033	9.9690	11.1083
Usage Charge	($/dth)	0.0831	0.0878	0.0826	0.0941	0.1056
Total	($/dth @ Full Contract)	0.2588	0.2790	0.3359	0.4218	0.4708
Redwood Path - Noncore						
Reservation Charge	($/dth/mo)	5.2050	5.7105	7.3006	10.0100	11.3911
Usage Charge	($/dth)	0.0952	0.1018	0.1051	0.1170	0.1279
Total	($/dth @ Full Contract)	0.2663	0.2896	0.3451	0.4461	0.5024
Baja Path - Noncore						
Reservation Charge	($/dth/mo)	5.9939	6.5151	8.1467	10.9074	12.2981
Usage Charge	($/dth)	0.1093	0.1162	0.1173	0.1275	0.1380
Total	($/dth @ Full Contract)	0.3063	0.3304	0.3851	0.4861	0.5424
Silverado and Mission Paths						
Reservation Charge	($/dth/mo)	3.1566	3.4544	4.6640	6.3815	7.2075
Usage Charge	($/dth)	0.0500	0.0522	0.0619	0.0704	0.0784
Total	($/dth @ Full Contract)	0.1538	0.1657	0.2153	0.2802	0.3154

Notes:

a) Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.

b) The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.

c) Customers delivering gas to storage pay the applicable backbone transmission on-system rate from Redwood, Baja and Silverado.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 9

PACIFIC GAS AND ELECTRIC COMPANY
Firm Backbone Transportation
Seasonal Rates (SFT) -- SFV Rate Design
On-System Transportation Service

		GA V 2014	GA V 2015 Update	2015 GT&S Rates 2015	2016	2017
Redwood Path						
Reservation Charge	($/dth/mo)	9.4293	10.3450	12.5682	16.2480	18.2975
Usage Charge	($/dth)	0.0096	0.0074	0.0010	0.0012	0.0013
Total	($/dth @ Full Contract)	0.3196	0.3475	0.4142	0.5354	0.6028
Baja Path - Core						
Reservation Charge	($/dth/mo)	9.0680	9.8658	12.2252	15.3557	17.1405
Usage Charge	($/dth)	0.0125	0.0104	0.0012	0.0014	0.0014
Total	($/dth @ Full Contract)	0.3106	0.3348	0.4031	0.5062	0.5650
Baja Path - Noncore						
Reservation Charge	($/dth/mo)	10.8584	11.8027	14.0247	17.7047	19.7544
Usage Charge	($/dth)	0.0106	0.0084	0.0011	0.0013	0.0014
Total	($/dth @ Full Contract)	0.3676	0.3964	0.4622	0.5834	0.6508
Silverado and Mission Paths						
Reservation Charge	($/dth/mo)	5.3151	5.8173	7.8337	10.1966	11.4798
Usage Charge	($/dth)	0.0098	0.0076	0.0008	0.0010	0.0010
Total	($/dth @ Full Contract)	0.1846	0.1989	0.2583	0.3362	0.3784

Notes:

a) Firm Seasonal rates are 120 percent of Firm Annual rates.

b) Rates are only the backbone transmission charge component of the transmission service. They include exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.

c) The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.

d) Customers delivering gas to storage pay the applicable backbone transmission on-system rate from Redwood, Baja and Silverado.

e) Firm seasonal service is available to on-system paths for a minimum term of three consecutive months in one season. Winter season is November through March. Summer season is April through October.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 10

PACIFIC GAS AND ELECTRIC COMPANY
Firm Backbone Transportation
Seasonal Rates (SFT) -- MFV Rate Design
On-System Transportation Service

		GA V 2014	GA V 2015 Update	2015	2016	2017
Redwood Path						
Reservation Charge	($/dth/mo)	6.2460	6.8526	8.7607	12.0120	13.6693
Usage Charge	($/dth)	0.1142	0.1222	0.1262	0.1405	0.1534
Total	($/dth @ Full Contract)	0.3196	0.3475	0.4142	0.5354	0.6028
Baja Path - Core						
Reservation Charge	($/dth/mo)	6.4159	6.9804	9.2439	11.9627	13.3300
Usage Charge	($/dth)	0.0997	0.1053	0.0992	0.1129	0.1267
Total	($/dth @ Full Contract)	0.3106	0.3348	0.4031	0.5062	0.5650
Baja Path - Noncore						
Reservation Charge	($/dth/mo)	7.1926	7.8182	9.7760	13.0889	14.7578
Usage Charge	($/dth)	0.1311	0.1394	0.1408	0.1530	0.1656
Total	($/dth @ Full Contract)	0.3676	0.3964	0.4622	0.5834	0.6508
Silverado and Mission Paths						
Reservation Charge	($/dth/mo)	3.7879	4.1453	5.5968	7.6578	8.6490
Usage Charge	($/dth)	0.0601	0.0626	0.0743	0.0844	0.0941
Total	($/dth @ Full Contract)	0.1846	0.1989	0.2583	0.3362	0.3784

Notes:

a) Firm Seasonal rates are 120 percent of Firm Annual rates.

b) Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.

c) The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.

d) Customers delivering gas to storage pay the applicable backbone transmission on-system rate from Redwood, Baja and Silverado.

e) Firm seasonal service is available to on-system paths for a minimum term of three consecutive months in one season. Winter season is November through March. Summer season is April through October.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 11

PACIFIC GAS AND ELECTRIC COMPANY
As-Available Backbone Transportation
On-System Transportation Service

		GA V 2014	GA V 2015 Update	2015 GT&S Rates 2015	2016	2017
Redwood Path						
Usage Charge	($/dth)	0.3196	0.3475	0.4142	0.5354	0.6028
Baja Path						
Usage Charge	($/dth)	0.3676	0.3964	0.4622	0.5834	0.6508
Silverado Path						
Usage Charge	($/dth)	0.1846	0.1989	0.2583	0.3362	0.3784
Mission Path						
Usage Charge	($/dth)	0.0000	0.0000	0.0000	0.0000	0.0000

Notes:

a) As-Available rates are 120 percent of Firm Annual rates.

b) Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.

c) Mission path service represents on-system storage to on-system transportation. Customers delivering gas to storage facilities pay the applicable backbone transmission on-system rate from Redwood, Baja or Silverado.

2015 Gas Transmission and Storage Ratecase

Adopted

APPENDIX J: Table 12

PACIFIC GAS AND ELECTRIC COMPANY
Backbone Transportation
Annual Rates (AFT-Off)
Off-System Deliveries

		GA V 2014	GA V 2015 Update	2015	2016	2017
SFV Rate Design						
Redwood, Silverado and Mission Paths Off-System						
Reservation Charge	($/dth/mo)	7.8577	8.6209	10.4735	13.5400	15.2479
Usage Charge	($/dth)	0.0080	0.0061	0.0008	0.0010	0.0011
Total	($/dth @ Full Contract)	0.2663	0.2896	0.3451	0.4461	0.5024
Baja Path Off-System						
Reservation Charge	($/dth/mo)	9.0486	9.8356	11.6873	14.7539	16.4620
Usage Charge	($/dth)	0.0088	0.0070	0.0009	0.0011	0.0011
Total	($/dth @ Full Contract)	0.3063	0.3304	0.3851	0.4861	0.5424
MFV Rate Design						
Redwood, Silverado and Mission Paths Off-System						
Reservation Charge	($/dth/mo)	5.2050	5.7105	7.3006	10.0100	11.3911
Usage Charge	($/dth)	0.0952	0.1018	0.1051	0.1170	0.1279
Total	($/dth @ Full Contract)	0.2663	0.2896	0.3451	0.4461	0.5024
Baja Path Off-System						
Reservation Charge	($/dth/mo)	5.9939	6.5151	8.1467	10.9074	12.2981
Usage Charge	($/dth)	0.1093	0.1162	0.1173	0.1275	0.1380
Total	($/dth @ Full	0.3063	0.3304	0.3851	0.4861	0.5424
As-Available Service						
Redwood, Silverado, and Mission Paths, (From Citygate) Off-System - Noncore						
Usage Charge	($/dth)	0.3196	0.3475	0.4142	0.5354	0.6028
Mission Paths (From on-system storage) Off-System						
Usage Charge	($/dth)	0.0000	0.0000	0.0000	0.0000	0.0000
Baja Path Off-System - Noncore						
Usage Charge	($/dth)	0.3676	0.3964	0.4622	0.5834	0.6508

Notes:

a) Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.

b) The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.

c) California gas and storage to off-system are assumed to flow on Redwood path and are priced at the Redwood path rate.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 13

PACIFIC GAS AND ELECTRIC COMPANY
Firm Transportation
Expansion Shippers -- Annual Rates (G-XF)
SFV Rate Design

		GA V 2014	GA V 2015 Update	2015	2016	2017
SFV Rate Design						
Reservation Charge	($/dth/mo)	5.5594	5.5594	5.0691	5.9899	5.9458
Usage Charge	($/dth)	0.0035	0.0035	0.0001	0.0001	0.0001
Total	($/dth @ Full Contract)	0.1863	0.1863	0.1667	0.1970	0.1956

Notes:

a) Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.

b) The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.

c) G-XF charges are based on the embedded cost of Line 401 and a 95 percent load factor.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 14

PACIFIC GAS AND ELECTRIC COMPANY
Storage Service Rates

		GA V 2014	GA V 2015 Update	2015	2016	2017
Core Firm Storage (G-CFS)						
Reservation Charge	($/dth/mo)	$0.126	$0.1285	$0.155	$0.187	$0.192
Standard Firm Storage (G-SFS)						
Reservation Charge	($/dth/mo)	$0.240	$0.2447	$0.288	$0.328	$0.319
Negotiated Firm Storage (G-NFS)						
Injection	($/dth/d)	$6.025	$6.1457	$5.556	$6.339	$6.155
Inventory	($/dth)	$2.879	$2.9366	$3.450	$3.936	$3.822
Withdrawal	($/dth/d)	$20.861	$21.2779	$25.398	$28.974	$28.136
Negotiated As-Available Storage (G-NAS) - Maximum Rate						
Injection	($/dth/d)	$6.025	$6.1457	$5.556	$6.339	$6.155
Withdrawal	($/dth/d)	$20.861	$21.2779	$25.398	$28.974	$28.136
Market Center Services (Parking and Lending Services)						
Maximum Daily Charge ($/Dth/d)		$1.099	$1.1206	$1.140	$1.297	$1.260
Minimum Rate (per transaction)		$57.00	$57.0000	$57.00	$57.00	$57.00

Notes:

a) Rates for storage services are based on the costs of storage injection, inventory and withdrawal.

b) Core Firm Storage (G-CFS) and Standard Firm Storage (G-SFS) rates are a monthly reservation charge designed to recover one twelfth of the annual revenue requirement of injection, inventory and withdrawal storage.

c) Negotiated Firm rates may be one-part rates (volumetric) or two-part rates (reservation and volumetric), as negotiated between parties. The volumetric equivalent is shown above.

d) Negotiated As-Available Storage Injection and Withdrawal rates are recovered through a volumetric charge only.

e) Negotiated rates (NFS and NAS) are capped at the price which will collect 100 percent of PG&E's total revenue requirement for the unbundled storage program under all three subfunctions (e.g. inventory, injection, or withdrawal). The maximum rates are based on a rate design assuming an average injection period of 30 days and an average withdrawal period of 7 days.

f) Negotiated Firm and As-available services are negotiable above a price floor representing PG&E's marginal costs of providing the service.

g) The maximum charge for parking and lending is based on the annual cost of cycling one Dth of Firm Storage Gas assuming the full 214 day injection season and 151 day withdrawal season.

h) Gas Storage shrinkage will be applied in-kind on storage injections.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 15

PACIFIC GAS AND ELECTRIC COMPANY
Local Transmission Rates
$/dth

Customer Groups	GA V 2014	GA V 2015 Update	2015 GT&S Rates 2015	2016	2017
Core Retail Local Transmission	0.4333	0.4749	1.448	1.850	2.076
Noncore Retail and Wholesale	0.2121	0.2325	0.646	0.805	0.906

Notes:

Allocation Method: Cold-Year Coincident Peak Month (December)

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 16

PACIFIC GAS AND ELECTRIC COMPANY
Customer Access Charge Rates
($ per Month)

		GA V 2014	GA V 2015 Update	2015 GT&S Rates 2015	2016	2017
G-EG / G-NT ($/month)						
	(Therms/Month)					
Tier 1	0 to 5,000	$60.90	$62.12	$31.48	$37.24	$35.34
Tier 2	5,001 to 10,000	$181.41	$185.04	$93.78	$110.94	$105.27
Tier 3	10,001 to 50,000	$337.64	$344.40	$174.55	$206.48	$195.93
Tier 4	50,001 to 200,000	$443.12	$451.98	$229.08	$270.98	$257.14
Tier 5	200,001 to 1,000,000	$642.93	$655.79	$332.37	$393.17	$373.09
Tier 6	1,000,001 and above	$5,453.67	$5,562.75	$2,819.33	$3,335.09	$3,164.73
Wholesale ($/month)						
Alpine		$323.79	$330.27	$150.77	$178.35	$169.24
Coalinga		$1,431.99	$1,460.63	$666.82	$788.81	$748.52
Island Energy		$970.23	$989.63	$451.80	$534.45	$507.15
Palo Alto		$4,774.56	$4,870.05	$2,223.34	$2,630.07	$2,495.72
West Coast Gas - Castle		$831.84	$848.48	$387.36	$458.22	$434.81
West Coast Gas - Mather		$760.18	$775.38	$353.99	$418.75	$397.36

Notes:

a) CAC revenue requirements are established in this GT&S Rate Case proceeding. The rate design for the customer access charge may be addressed in PG&E's Gas Cost Allocation Proceedings (BCAP).

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 17

PACIFIC GAS AND ELECTRIC COMPANY
Self Balancing Credit
$/dth

	GA V 2014	GA V 2015 Update	2015 GT&S Rates 2015	2016	2017
Self Balancing Credit	($0.0132)	($0.0135)	($0.0165)	($0.0197)	($0.0201)

Notes:

a) Storage balancing costs are bundled in backbone rates. Customers or Balancing agents who elect self balancing on a daily basis can opt out of PG&E's monthly balancing program and receive a self-balancing credit.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 18

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative Bill Impact of the Adopted 2015 GT&S Rates Compared to 2014 GA V Rates

Line No.	RESIDENTIAL CLASS	Rates Effective January 1, 2014 with Adopted 2014 GT&S Components and PSEP Update	Rates Effective January 1, 2015 with Adopted 2015 GT&S
		(A)	(B)
1	Non-CARE Residential Illustrative Bundled Rate* ($/th)	$1.22152	$1.31143
2	State-Mandated Residential Public Purpose Program Surcharge ($/th)	$0.06551	$0.06551
3	End-User Total Rate and Surcharge ($/th)	$1.28703	$1.37694
4	Average Monthly Use per Residential Customer (therms)	34	34
5	Present Average Non-CARE Residential Customer Monthly Bill ($)	$43.76	$46.82
6	Change in Average Non-CARE Residential Bill		$3.06
7	% Change in Average Annual Non-CARE Residential Bill		7.0%

	SMALL COMMERCIAL CLASS	Rates Effective January 1, 2014 with Adopted 2014 GT&S Components and PSEP Update	Rates Effective January 1, 2015 with Adopted 2015 GT&S
		(A)	(B)
8	Non-CARE Small Commercial Illustrative Bundled Rate* ($/th)	$0.93715	$1.02469
9	State-Mandated Small Commercial Public Purpose Program Surcharge ($/th)	$0.03878	$0.03878
10	End-User Total Rate and Surcharge ($/th)	$0.97593	$1.06347
11	Average Monthly Use per Small Commercial Customer (therms)	284	284
12	Present Average Non-CARE Small Commercial Customer Monthly Bill ($)	$277.16	$302.03
13	Change in Average Non-CARE Small Commercial Bill		$24.87
14	% Change in Average Annual Non-CARE Small Commercial Bill		9.0%

* CARE customers receive a discount of 20% off of PG&E's bundled residential rates and are exempt from paying CARE-related portions of PG&E's G-PPPS rates.

Note:

All non-GT&S rate components in Col, (A) and (B) reflect annual average rates in effect 2014 per approved PG&E Advice Letters 3373-G and 3374-G.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)

Adopted

APPENDIX J: Table 19

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative Bill Impact of Adopted 2016 GT&S Rates Compared to Rates in Effect January 1, 2016

Line No.	RESIDENTIAL CLASS	Rates Effective Janaury 1, 2016	Rates Effective January 1, 2016 with Adopted 2016 GT&S
		(A)	(B)
1	Non-CARE Residential Illustrative Bundled Rate* ($/th)	$1.47271	$1.63010
2	State-Mandated Residential Public Purpose Program Surcharge ($/th)	$0.06551	$0.06551
3	End-User Total Rate and Surcharge ($/th)	$1.53822	$1.69561
4	Average Monthly Use per Residential Customer (therms)	34	34
5	Present Average Non-CARE Residential Customer Monthly Bill ($)	$52.30	$57.65
6	Change in Average Non-CARE Residential Bill		$5.35
7	% Change in Average Annual Non-CARE Residential Bill		10.2%

	SMALL COMMERCIAL CLASS	Rates Effective Janaury 1, 2016	Rates Effective January 1, 2016 with Adopted 2016 GT&S
		(A)	(B)
8	Non-CARE Small Commercial Illustrative Bundled Rate* ($/th)	$0.96070	$1.11467
9	State-Mandated Small Commercial Public Purpose Program Surcharge ($/th)	$0.03878	$0.03878
10	End-User Total Rate and Surcharge ($/th)	$0.99948	$1.15345
11	Average Monthly Use per Small Commercial Customer (therms)	284	284
12	Present Average Non-CARE Small Commercial Customer Monthly Bill ($)	$283.85	$327.58
13	Change in Average Non-CARE Small Commercial Bill		$43.73
14	% Change in Average Annual Non-CARE Small Commercial Bill		15.4%

* CARE customers receive a discount of 20% off of PG&E's bundled residential rates and are exempt from paying CARE-related portions of PG&E's G-PPPS rates.

Notes:

1) Non-GT&S rate components in Col, (A) and (B) reflect rates in the 2016 Annual Gas True-up (AGT) filing per Advice Letter 3644-G.

2) GT&S related rate component in Col (A) reflects 2% escalation of GA V (per adopted settlement) approved in Advice Letter 3547-G.

2015 Gas Transmission and Storage Rate Case (2015 GT&S)
Adopted
APPENDIX J: Table 20
PACIFIC GAS AND ELECTRIC COMPANY
BACKBONE LOAD FACTOR
NON-EQUALIZED RATES WITH 4-CENT BAJA-REDWOOD DIFFERENTIAL

		2015	2016	2017	*Revision Notes*
1	**Backbone Demand (MDth/d)**				
2	Core	758	755	754	
3	Core distribution shrinkage	18	19	19	
4	Noncore industrial + NGV4	508	502	508	
5	Wholesale	10	10	10	
6	Electric Generation	506	505	497	
7	Cogeneration	178	178	178	
8	Subtotal, on-system	1,978	1,969	1,966	*(1)*
9	G-XF off-system	80	80	80	
10	Non G-XF off-system (full-rate-equivalent throughput) **(a)**	85	66	59	*(2)*
11	Subtotal, off-system	166	146	139	
12	TOTAL	2,144	2,115	2,105	
13	Remove G-XF contracts	(86)	(86)	(86)	
14	Adjust for Baja on-system discounts **(b)**	0	0	0	
15	Adjust for G-AA, G-SFT, and G-NFT premiums **(c)**	35	35	34	*(2)*
16	Adjust for reservation charges for un-used firm contracts **(d)**	74	77	78	*(2)*
17	Adjust for disproportionate usage of backbone paths **(e)**	(70)	(65)	(66)	*(2)*
18	Subtotal, adjustments	(47)	(39)	(40)	
19	TOTAL, ADJUSTED	**2,097**	**2,077**	**2,065**	
20	**Backbone Capacity (MDth/d at Delivery Point)**				
21	Redwood Line 401	998	1,008	1,031	*(3)*
22	Redwood Line 400	1,016	1,026	1,049	*(3)*
23	Baja Line 300	1,025	1,025	1,025	*(3)*
24	Silverado "capacity"	127	129	132	*(4)*
25	TOTAL	3,167	3,189	3,238	
26	Remove G-XF contracts	(86)	(86)	(86)	
27	Remove SMUD equity capacity, Line 401	(43)	(43)	(44)	
28	Remove SMUD equity capacity, Line 300	(41)	(41)	(41)	
29	Subtotal, adjustments	(169)	(170)	(171)	
30	TOTAL, ADJUSTED	**2,998**	**3,019**	**3,067**	
31	Memo: Silverado flow forecast	89	89	89	
32	**Backbone Load Factor**	**69.95%**	**68.77%**	**67.34%**	

REVISION NOTES *

(1) On-system demands are revised consistent with the stipulated demand forecast (see Section 18.1 of the Decision) and the updated core distribution shrinkage rates (see Section 18.8.2 of the Decision).

(2) Revisions to Line Nos. 10, 15, 16, and 17 are explained in the next table.

(3) Redwood and Baja capacities are revised consistent with the updated backbone shrinkage rates (see Section 18.8.2 of Decision).

(4) Silverado "capacities" are calculated by dividing forecasted Silverado throughput (Line No. 31) by the system average backbone load factor (Line No. 32). Because the backbone load factors are revised, the Silverado capacities are also revised.

*** Revision explanations are based on comparisons to Exhibit PGE-043, Chapter 17A, Table 17A-2 and Table 17A-3.**

APPENDIX J: Table 21
PACIFIC GAS AND ELECTRIC COMPANY
THROUGHPUT ADJUSTMENTS FOR BACKBONE LOAD FACTOR
NON-EQUALIZED RATES WITH 4-CENT BAJA-REDWOOD DIFFERENTIAL

		2015	2016	2017	*Revision Notes*
1	**(a) Calculate full rate equivalent non-G-XF off-system throughput**				
2	Forecasted revenues ($ '000/yr)	$10,750	$10,750	$10,750	
3	Noncore Redwood G-AFT rate ($/Dth)	$0.345	$0.446	$0.502	
4	Full rate equivalent throughput (MDth/d)	**85**	**66**	**59**	*(1)*
5	**(b) Adjust for Baja on-system discounts**				
6	Quantity (MDth/d)	0	0	0	
7	Contract rate ($/Dth)	$0.000	$0.000	$0.000	
8	Noncore Baja G-AFT rate ($/Dth)	$0.385	$0.486	$0.542	
9	Full rate equivalent throughput (MDth/d)	0	0	0	
10	Throughput adjustment (MDth/d)	**0**	**0**	**0**	
11	**(c) Adjust for G-AA, G-SFT, and G-NFT premiums**				
12	G-AA throughput - Core (MDth/d)	0	0	0	
13	G-AA throughput - Noncore (MDth/d)				
14	Total on-system throughput	1,978	1,969	1,966	
15	G-XF on-system throughput	5	5	5	
16	Firm throughput excl G-XF	1,889	1,877	1,879	
17	G-AA throughput - Core	0	0	0	
18	G-AA throughput - Noncore (deter	84	86	81	*(2)*
19	G-SFT throughput - Core				
20	Core G-SFT MDQ (annualized MI	65	65	65	
21	Core G-SFT average utilization ra	91.9%	91.9%	91.9%	
22	Core G-SFT throughput (MDth/d)	60	60	60	
23	G-SFT and G-NFT throughput - Noncore				
24	Noncore G-SFT and G-NFT MDQ	38	36	34	
25	Noncore G-SFT and G-NFT avera	82.6%	82.6%	82.6%	
26	Noncore G-SFT and G-NFT throu	31	30	28	
27	TOTAL (MDth/d)	175	176	170	
28	Rate premium	20%	20%	20%	
29	Premium adjustment (MDth/d)	**35**	**35**	**34**	
30	**(d) Adjust for reservation charges for unused firm contracts**				
31	Total firm contract MDQ excl G-XF (MDth/d)	1,993	1,980	1,983	*(3)*
32	Average firm contract utilization rate excl G-X	94.8%	94.8%	94.8%	
33	Unused firm MDQ (MDth/d)	104	103	103	
34	Average reservation portion of MFV rate	71.1%	74.8%	75.3%	*(4)*
35	Unused firm contract adjustment (MDth/d)	**74**	**77**	**78**	

(TABLE CONTINUED ON NEXT PAGE)

APPENDIX J: Table 21 (Continued)
PACIFIC GAS AND ELECTRIC COMPANY
THROUGHPUT ADJUSTMENTS FOR BACKBONE LOAD FACTOR
NON-EQUALIZED RATES WITH 4-CENT BAJA-REDWOOD DIFFERENTIAL

		2015	2016	2017	*Revision Notes*
36	**(e) Adjust for disproportionate usage of backbone paths**				
37	Core Redwood capacity (MDth/d)	612	612	612	
38	Throughput at load factor (MDth/d)	428	421	412	
39	Expected Core Redwood utilization rate (incl	99.6%	99.6%	99.6%	
40	Expected Core Redwood throughput (MDth/d	609	609	609	
41	Throughput shift to Core Redwood capacity (M	181	189	197	
42	Core Redwood rate as percent of system ave	86.0%	86.7%	87.1%	
43	Percent difference relative to system average	-14.0%	-13.3%	-12.9%	
44	Throughput adjustment (MDth/d)	(25)	(25)	(26)	*(5)*
45	Core Baja capacity (MDth/d)	247	247	247	
46	Throughput at load factor (MDth/d)	173	170	167	
47	Expected Core Baja utilization rate (incl broke	96.2%	96.2%	96.2%	
48	Expected Core Baja throughput (MDth/d)	238	238	238	
49	Throughput shift to Core Baja capacity (MDth/	65	68	71	
50	Core Baja rate as percent of system average	97.6%	95.7%	95.1%	
51	Percent difference relative to system average	-2.4%	-4.3%	-4.9%	
52	Throughput adjustment (MDth/d)	(2)	(3)	(3)	*(5)*
53	Noncore Baja capacity (MDth/d; excl SMUD e	737	737	737	
54	Throughput at load factor (MDth/d)	515	507	496	
55	Expected Noncore Baja throughput (MDth/d)	152	140	102	
56	Throughput shift to Noncore Baja capacity (M	(364)	(367)	(394)	
57	Noncore Baja rate as percent of system avera	111.9%	110.3%	109.6%	
58	Percent difference relative to system average	11.9%	10.3%	9.6%	
59	Throughput adjustment (MDth/d)	(43)	(38)	(38)	*(5)*
60	Noncore Redwood capacity (MDth/d; excl G-X	1,274	1,294	1,338	
61	Throughput at load factor (MDth/d)	891	890	901	
62	Expected Noncore Redwood throughput (MDt	970	953	981	
63	Throughput shift to Noncore Redwood capaci	79	63	80	
64	Noncore Redwood rate as percent of system	100.3%	101.2%	101.5%	
65	Percent difference relative to system average	0.3%	1.2%	1.5%	
66	Throughput adjustment (MDth/d)	0	1	1	*(5)*
67	Total throughput adjustment (MDth/d)	**(70)**	**(65)**	**(66)**	*(5)*

	Backbone Rate Inputs (G-AFT, $/Dth)	2015	2016	2017	
68					
69	System average rate (excl Silverado and G-XF)	$0.344	$0.441	$0.495	*(6)*
70	Core Redwood rate	$0.296	$0.382	$0.431	*(6)*
71	Core Baja rate	$0.336	$0.422	$0.471	*(6)*
72	Noncore Redwood rate	$0.345	$0.446	$0.502	*(6)*
73	Noncore Baja rate	$0.385	$0.486	$0.542	*(6)*

APPENDIX J: Table 21 (Continued)
REVISION NOTES *

(1) Full rate equivalent non-G-XF off-system throughputs are revised because the noncore Redwood rates (Line Nos. 3 and 72) a

(2) Noncore G-AA throughputs are revised because of changes to the demand forecast (discussed in Note 1 of the previous table) and minor changes to the forecasted firm contracts (discussed in Note 3 of this table).

(3) Total firm contract MDQs are revised slightly due to minor changes to the firm backbone capacities (discussed in Note 3 of the

(4) The average reservation portion of the MFV rate is revised consistent with revisions to the backbone revenue requirement.

(5) The adjustments for disproportionate usage of backbone paths are revised for several reasons, chiefly changes to the backbone load factors and the backbone rates themselves. (The backbone load factor and the backbone rates are interdependent and must be calculated in an iterative manner.) The adjustments for disproportionate usage of backbone paths are also affected by revisions to the demand forecast (discussed in Note 1 of the previous table) and minor revisions to

(6) The backbone rates are revised to account for changes in the backbone revenue requirements, changes in the backbone load factors, and minor changes in the backbone capacities.

*** Revision explanations are based on comparisons to Exhibit PGE-043, Chapter 17A, Table 17A-2 and Table 17A-3.**

(End of Appendix J)