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Exhibit Number	:	<u>ORA-17</u>
Commissioner	:	<u>C. Peterman</u>
ALJ	:	<u>J. Wong</u>
Witness	:	<u>P. Sabino</u>



**OFFICE OF RATEPAYER ADVOCATES
CALIFORNIA PUBLIC UTILITIES COMMISSION**

**Report on the Results of Operations
for
Pacific Gas and Electric Company
Test Year 2015
Gas Transmission and Storage Rate Case**

**Chapter 17
Cost Allocation and Rate Design**

San Francisco, California
August 11, 2014

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Cost Allocation and Rate Design

I. INTRODUCTION

This exhibit presents the analyses and recommendations of the Office of Ratepayer Advocates (ORA) regarding Pacific Gas and Electric Company's (PG&E) Cost Allocation and Rate Design proposals associated with its Test Year (TY) 2015 and Post Test Years 2016 and 2017 in the Gas Transmission and Storage (GT&S) rate case. ORA proposes an allocation of ORA's recommended revenue requirements shown in ORA Exhibit 16 for Backbone Transmission, Local Transmission, Gas Storage, and the Transmission-Level Customer Access Charges (CAC) to the customers causing the incurrence of these costs on PG&E's gas transmission and storage system and to calculate the corresponding amounts to be collected in rates. PG&E is not proposing to change the current cost allocation methodologies for its Backbone Transmission facilities, which were adopted in the Gas Accord V Settlement.¹ PG&E clarified that its proposal to equalize core and noncore rates on the Redwood and Baja paths for its Backbone Transmission is a rate design proposal, not a cost allocation methodology proposal.² The Silverado/Mission Paths and the G-XF service on Backbone Transmission will remain based on traditional cost-based rates.³

With respect to Local Transmission facilities, PG&E proposes to continue the existing cost allocation and single average local transmission rate design for core and a single average local transmission rate for noncore and wholesale customers.⁴ In addition, PG&E does not propose any changes to the existing cost allocation and rate design methodology for its Gas Storage facilities which provide three storage services.⁵ Further, in Chapter 10 of PG&E's Prepared Testimony, PG&E presented

¹ PG&E Response to ORA-DR-15-Q3a.

² Id.

³ Table 17-1 at lines 20 and 21, PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-5 and as shown in PG&E's Backbone Transmission Rate Model in the 2015 GT&S.

⁴ PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-6.

⁵ PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-7.

1 other proposals, including a proposal pertaining to Core’s gas storage winter
2 withdrawal rights and a proposal to reallocate additional injection capacity and
3 withdrawal capacity to load balancing. The impact of these other proposals on
4 Core’s revenue requirements and rates are discussed in this exhibit.

5 Finally, with respect to the Transmission-level Customer Access Charges
6 (CACs), PG&E proposes to continue to scale the currently adopted customer access
7 charges multiplied by the forecast of customers by tier such that the resulting
8 revenues match the customer access charge revenue requirement.⁶

9 ORA’s recommendations on PG&E revenue requirements for Test Year 2015
10 and Post Test Years 2016 and 2017 are shown in ORA Exhibits 16 and 18,
11 respectively. On the basis of ORA’s recommended revenue requirements in these
12 exhibits and the existing cost allocation methodologies adopted in Gas Accord V,
13 ORA presents in this Exhibit the recommended basic rate schedules that provide
14 PG&E the opportunity to recover the allocated costs from customers within each
15 customer class as applicable.

16 The detailed discussion in Section IV pertains to the Backbone Transmission
17 and the Gas Storage. The detailed discussion excludes matters pertaining to Local
18 Transmission and the Transmission Level CACs and Schedule G-XF because ORA
19 did not identify any cost allocation issues relating to them.

20 **II. SUMMARY OF RECOMMENDATIONS**

21 ORA cost allocation and rate design proposals differ from PG&E in the
22 following:

- 23 1. ORA recommends to continue the existing path-based rate
24 differences for the Redwood and Baja backbone transmission
25 paths, and
- 26 2. ORA recommends lower revenue requirement in 2015, 2016, and
27 2017 in contrast to PG&E’s proposed revenues in those years.

⁶ PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-9.

1 ORA recommends the Commission reject the PG&E proposal on equalized
 2 rates, and instead adopt, the traditional cost-based rate differential for the Redwood
 3 and Baja backbone transmission paths.

4 ORA recommends the Commission find that PG&E has failed to demonstrate
 5 the need to reallocate additional storage capacity for load balancing and reject the
 6 PG&E proposal.

7 Table 17-1 below summarizes the ORA recommendation on PG&E’s various
 8 gas transmission and storage rates in Test Year 2015 and Post-Test Years 2016
 9 and 2017.

10 **Table 17-1**
 11 **Summary of Transportation and Storage Rates¹**
 12 **\$/Dth, G-AFT @ Full Contract**

13 *

Line No.	Description	GA V &	GA V &	ORA Recommended		
		PSEP	PSEP	Rates ⁷		
		Update	Update	2015	2016	2017
		2013 ¹	2014 ¹			
1	Core Redwood	0.232	0.257	0.294	0.300	0.333
2	Core Baja	0.267	0.297	0.478	0.538	0.700
3	Noncore Redwood	0.281	0.298	0.362	0.376	0.398
4	Noncore Baja	0.316	0.338	0.478	0.538	0.700
5	Silverado/Mission	0.167	0.188	0.249	0.271	0.314
6	G-XF	0.191	0.186	0.187	0.188	0.189
7	Local Transmission Core	0.629	0.680	1.9718	2.1176	2.4150
8	Local Transmission Noncore	0.295	0.332	0.8719	0.9279	1.0594
9	Core Firm Storage (\$/Dth/Mo)	0.123	0.126	0.150	0.147	0.152

15 ¹Backbone and Local Transmission rates in 2013 and 2014 include rates proposed in the Pipeline Safety
 16 Enhancement Plan (PSEP) Update Application, A.13-10-017. The 2013 and 2014 PSEP Update volumetric rates
 17 are not included for Storage Services as they are for Backbone Transmission and Local Transmission because
 18 storage rates are capacity based and a volumetric equivalent does not exist.

19 Table 17-2 compares ORA’s and PG&E’s TY2015 forecasts of Backbone
 20 Transmission rates, where those under the PG&E proposed column “c” are based
 21 on equalized rates and PG&E’s propose revenue requirements and throughput
 22 forecast. Those forecasts under the ORA recommended column “b” are based on
 23 traditional cost-based rates and ORA’s revenue requirements and throughput

⁷ Based on ORA’s run of PG&E’s rate models with ORA’s recommendations.

1 forecast. ORA’s recommended backbone transmission rates are generally lower
 2 than PG&E’s for all backbone transmission paths except for the Baja Path for the
 3 Core.

4 **Table 17-2**
 5 **Comparison of Backbone Transmission Rates for TY2015**
 6 **\$/Dth, G-AFT @ Full Contract**
 7 **(In \$/Dth)**
 8

Description (a)	ORA Recommended ⁸ (b)	PG&E Proposed ⁹ (c)	Amount PG&E>DRA (d=c-b)	Percentage PG&E>DRA (e=d/b)
Redwood Core	\$0.294	\$0.460	\$0.166	36.1%
Baja Core	\$0.478	\$0.460	(\$0.018)	(4.0%)
Redwood Noncore	\$0.362	\$0.512	\$0.150	29.4%
Baja Noncore	\$0.478	\$0.512	\$0.034	6.6%
Silverado/Mission	\$0.249	\$0.323	\$0.074	22.8%
G-XF	\$0.187	\$0.204	\$0.017	8.3%

9 Table 17-3 compares ORA’s and PG&E’s TY2015 forecasts of Local
 10 Transmission rates, where both the PG&E proposed and ORA recommended rates
 11 are based on a single average local transmission rate for Core and a single average
 12 local transmission rate for Noncore. Differences shown in column “d” are
 13 attributable to differences between ORA and PG&E’s local transmission revenue
 14 requirements and the forecast throughput in this rate case.
 15

⁸ Based on ORA’s run of PG&E’s rate models with ORA’s recommendations.

⁹ For the 2013 and 2014 rates, see Tables 17-1, 17-2, and 17-3, PG&E Prepared Testimony, Volume 2 (Niemi), pp. 17-5 to 17-9.

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Table 17-3
Comparison of Local Transmission Rates for TY2015
(In \$/Dth)

Description (a)	ORA Recommended¹⁰ (b)	PG&E Proposed¹¹ (c)	Amount PG&E>DRA (d=c-b)	Percentage PG&E>DRA (e=d/b)
Local Transmission Core	\$1.9718	\$1.959	(\$0.0128)	(0.6%)
Local Transmission Noncore	\$0.8719	\$0.875	\$0.0031	0.3%

4 Table 17-4 compares ORA's and PG&E's Test Year 2015 forecasts of Gas
5 Storage rates for the different storage services. Core customers take service from
6 Core Firm Storage. ORA's storage rates in TY 2015 are lower than PG&E's
7 proposed storage rates.
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¹⁰ Based on ORA's run of PG&E's rate models with ORA's recommendations.

¹¹ Table 17-2, PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-7.

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Table 17-4
Comparison of Gas Storage Rates for TY2015
(In \$ /Dth)

Description (a)	ORA Recommended (b)	PG&E Proposed <u>12</u> (c)	Amount PG&E>DRA (d=c-b)	Percentage PG&E>DRA (e=d/b)
Core Firm Storage (G-CFS)				
Reservation Charge (\$/Dth/Mo)	\$0.150	\$0.175	\$0.025	14.3%
Standard Firm Storage				
(G-SFS) Reservation Charge (\$/Dth/Mo)	\$0.290	\$0.326	\$0.036	11%
Negotiated Firm Storage (G-NFS):				
Injection (\$/Dth/d)	\$5.610	\$6.295	\$0.685	10.8%
Inventory (\$/Dth)	\$3.483	\$3.909	\$0.426	10.9%
Withdrawal (\$/Dth/d)	\$25.642	\$28.777	\$3.14	10.8%
Negotiated As-Available Storage (G-NAS) Maximum Rate:				
Injection (\$/Dth/d)	\$5.610	\$6.295	\$0.685	10.8%
Withdrawal (\$/Dth/d)	\$25.642	\$28.777	\$3.14	10.8%
Market Center Services (Parking & Lending Services)				
Maximum Daily Charge (\$/Dth/d)	\$1.263	\$1.282	\$0.019	1.48%
Minimum Rate (Per Transaction)	\$57.00	\$57.00	\$0	0%

4 Table 17-5 compares ORA's and PG&E's Test Year 2015 forecasts of
5 Transmission Level Customer Access Charge (CAC) rates.

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¹² Table 17-3, PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-9.

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Table 17-5
Comparison of Transmission-Level CAC Rates for TY2015
(In \$/Dth)

Description (a)	ORA Recommended (b)	PG&E Proposed ¹³ (c)	Amount PG&E>DRA (d=c-b)	Percentage PG&E>DRA (e=d/b)
y y grm s				
EdEEEEEEEEEEcE EhWcc	M kaf g	M kaf g	M	cN
EeEEEEEEHhWcdE EdcWcc	Mddaef	Mddaef	M	cN
Ef dcWcdE EhcWcc	Mckace	Mckace	M	cN
EgEEEEEEHhcWcdE EeccWcc	Mkdai m	Mkdai m	M	cN
EhEEEEEdccWcdE EdWccWcc	Mngadm	fngadm	M	cN
Ei EEEEdWccWcdE E	MWgfakk	MWgfakk	M	cN
grm s				
v	Mkl al e	Mkl al e	M	cN
x	Mncal i	Mncal i	M	cN
E-	Mf hal g	Mf hal g	M	cN
Ev	MWfi and	MWfi and	M	cN
Ex E _	Mhmagd	Mhmagd	M	cN
Ex E _x	Mdmal f	Mdmal f	M	cN

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Based on the numerous issues ORA has had with running the RO as discussed here and in Exhibit ORA-16, ORA intends to re-run the RO and anticipates the possibility of changes to ORA's recommended revenue requirement and rates.

9 **III. GENERAL OVERVIEW**

10 PG&E describes its backbone transmission system in Chapter 17 of its
11 Prepared Testimony.¹⁴ PG&E provides backbone transmission services on four
12 backbone paths, namely: Redwood, Baja, Silverado, and Mission.¹⁵ The Redwood
13 Path includes Lines 400 and 401 while the Baja Path includes Line 300.¹⁶ The

¹³ Table 17-4, PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-10.

¹⁴ PG&E Prepared Testimony, Volume 2 (Nieme), pp.17-1 to 17-14, including Chapter 17 Attachment A Detailed Rate Tables, pp.17AtchA-1 to 17AtchA-15.

¹⁵ PG&E Prepared Testimony, Volume 2 (Orr), p. A-1.

¹⁶ Table 10-9, PG&E Prepared Testimony, Volume 2 (Christopher), p.10-47. Also shown in the Backbone Transmission Rate Model for the PG&E 2015 GT&S rate case.

1 Sacramento Municipal Utility District (SMUD) has equity interest in Line 401 and
2 Line 300 and the cost allocation process excludes those costs and capacities.¹⁷ The
3 relevant pipeline capacities for backbone transmission at receipt and delivery points
4 are shown in Table 10-9 of PG&E’s Prepared Testimony.

5 For the rate case period 2015 through 2017, PG&E’s proposed backbone
6 transmission revenue requirements include the revenues necessary to be collected
7 in rates for its different Unbundled Cost Categories (UCCs), comprised of gathering
8 facilities, gas storage facilities, local transmission facilities, Lines 400, 401 and Line
9 2 in northern path transmission facilities, Line 300 in southern path transmission
10 facilities in North Milpitas to Panoche and South Topock to Panoche, the Bay Area
11 Loop transmission facilities, and Customer Access Charges.¹⁸ PG&E states that
12 monthly load balancing will continue to be allocated to each backbone path and
13 recovered in backbone transmission rates.¹⁹ Gathering facilities, the Bay Area Loop,
14 and monthly load balancing function comprise what is usually referred to as the
15 “Common” facilities.²⁰ The proposal would allocate to the backbone paths a
16 prorated cost of the common facilities that is added to each transmission path’s cost
17 burden.²¹ Costs for these common facilities, along with the direct costs on the
18 backbone lines, are recovered through backbone transmission rates.²²

19 As a background to the backbone transmission cost allocation and rate
20 design, ORA describes the process from the Results of Operations (R.O.) model.
21 From PG&E’s 2015 GT&S RO model, the PG&E gas transmission and storage
22 revenue requirements flow to the various PG&E rate models in the 2015 GT&S rate
23 case through direct links where the annual revenue requirements are organized by

¹⁷ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-3.

¹⁸ Table 16-4, PG&E Prepared Testimony, Volume 2 (Jones), p. 16-23.

¹⁹ PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-3.

²⁰ As shown in PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

²¹ D.97-08-055 Gas Accord decision Appendix B, Section I, pp. 36-37.

²² PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

1 unbundled cost categories (UCC).²³ The PG&E revenue requirements are
2 generated by the RO model with a breakdown by UCC. For those UCCs pertaining
3 to backbone transmission, the revenue requirements by UCC are first allocated in
4 PG&E’s rate model into the correct transmission paths, including the storage
5 monthly balancing revenue requirement, which become part of “common” facilities.²⁴
6 The Redwood Path revenue requirements are then allocated to the Redwood Core
7 Vintage, other Redwood, and Line 401 G-XF service.²⁵ The cost allocations are
8 made using the backbone transmission allocation factors based on the pipeline’s
9 firm capacity at delivery point.²⁶ The direct and common costs are allocated to the
10 backbone categories and the sharing mechanism “seed” credit are removed from the
11 backbone transmission revenue requirements.²⁷ In this Application, PG&E
12 proposes to discontinue the Revenue Sharing Mechanism.²⁸ The direct and
13 common costs are then further categorized by PG&E’s rate model into five backbone
14 categories, namely: Core Redwood, Noncore Redwood (non-G-XF), Line 401 G-XF,
15 Baja, and Common.²⁹ Finally, the direct and common costs are classified into
16 reservation and usage charge revenue requirements within the five backbone

²³ PG&E Workpapers, Chapter 17, p. WP 17-6. Also shown in PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

²⁴ PG&E Workpapers, Chapter 17, p. WP 17-6. Also shown in PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

²⁵ PG&E Workpapers, Chapter 17, p. WP 17-6. Also shown in PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

²⁶ PG&E Workpapers, Chapter 17, p. WP 17-3. As shown in PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

²⁷ PG&E explains in Response to ORA-DR-37-Q4e that PG&E agreed to “seed” the Revenue Sharing Mechanism in GA V by designing transmission rates to recover \$30 million less than the adopted transmission revenue requirement. PG&E’s expectation was that the higher throughput would make up for the reduced rate design target.

²⁸ PG&E Prepared Testimony, Volume 2 (Hoglund), p. 18-1.

²⁹ As shown in PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

1 categories.³⁰ PG&E's existing backbone transmission service has a two-part tariff
2 that consists of a reservation charge and a volumetric usage charge.³¹

3 PG&E core and noncore customers have an option on how they choose to
4 pay the two-part tariff. They can avail themselves of either a straight fixed variable
5 rate (SFV) or a modified fixed variable rate (MFV). These options can be generally
6 described as a choice between paying more fixed costs upfront and less usage
7 charges as a proportion of the total rate charges or in the alternative, less fixed costs
8 upfront and greater usage as a proportion of the total rate charges. Either way,
9 under PG&E's system, the theoretical total revenue collected under an SFV or MFV
10 is identical for customers at 100 percent contract utilization.³² The only benefit from
11 the SFV rate option for on-system service is for customers who wish to fix most of
12 their costs. In the SFV rate, the reservation rate is estimated at approximately 99.5
13 percent of the total rate charged. In the MFV rate, the reservation rate is estimated
14 at 74.65 percent of the total rate charged for Core and 71.56 percent for Noncore
15 while the remaining portion is volumetric or usage-based.³³ According to PG&E,
16 virtually all of its backbone capacity is sold under the MFV option.³⁴ PG&E's core
17 customers pay on the basis of the MFV rate.³⁵

18 **A. PG&E Backbone Transmission**

19 In this rate case, the system average load factor (SALF) is used to derive the
20 rates or the revenue responsibility of both core and non-core on each backbone path

³⁰ PG&E Workpapers, Chapter 17, p. WP 17-9. Also shown in PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

³¹ Table 17-E and Table 17-F, PG&E Prepared Testimony, Volume 2 (Niemi), pp. 17AtchA-5 to 17AtchA-6.

³² As shown in PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

³³ As shown in the PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

³⁴ Based on a previous PG&E Data Response in the 2011 GTS-RateCase to the then DRA in DRA-DR-50-Q3 dated April 14, 2010.

³⁵ Id.

1 to the extent these are used in the calculation of the billing determinants.³⁶ The
2 system average load factor is calculated as total backbone throughput (on all paths)
3 divided by the total backbone capacity (on all paths), plus certain adjustments,
4 where the SALF calculation excludes the incremental Line 401 service under
5 Schedule G-XF contracts.³⁷ PG&E's rates for G-XF contracts will continue to be
6 based on the methodology adopted in Decision 94-02-042.³⁸

7 ORA's recommended SALFs for the years 2015 through 2017 are only
8 slightly different in each year from PG&E's SALFs shown in Table 17A-1.³⁹ ORA's
9 recommended SALFs are 70.63% in 2015, 69.10% in 2016, and 67.84% in 2017.⁴⁰
10 PG&E's proposed SALFs are 70.32% in 2015, 69.11% in 2016, and 68.18% in
11 2017.⁴¹

12 With respect to the backbone transmission rate design, PG&E proposes to
13 change to the backbone rate design where the rate for core customers on the
14 Redwood and Baja paths will be equalized.⁴² Currently, the backbone rate for Core
15 on the Redwood path is different from the rate on Baja path. PG&E justifies its
16 proposal for equalized backbone rates based on its belief that equalized rates will
17 apply downward pressure on the price of gas at the PG&E Citygate.⁴³ PG&E's rate
18 equalization proposal is addressed in ORA's Exhibit 10. In Exhibit 10, ORA

³⁶ PG&E Workpapers, Chapter 17, pp. WP 17-1 to 17-20. Also shown in the PG&E Backbone Transmission Rate Model in the 2015 GT&S rate case.

³⁷ PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-3 and Table 17A-2 shown in PG&E's Testimony.

³⁸ Id.

³⁹ PG&E Prepared Testimony, Volume 2 (Orr), p. 17A-4.

⁴⁰ As recommended by ORA's Witness Thomas Renaghan on the PG&E Throughput Forecast based on PG&E's SALF methodology for Table 17A-1. The Backbone Load Factor calculation is explained in detail in Chapter 17A of PG&E Prepared Testimony, Volume 2 (Orr), pp. 17A-1 to 17A-13.

⁴¹ Table 17A-1, PG&E Prepared Testimony, Volume 2 (Orr), p. 17A-4.

⁴² PG&E Prepared Testimony, Volume 2 (Christopher), p. 10-20.

⁴³ PG&E Prepared Testimony, Volume 2 (Christopher), p. 10-21.

1 recommends the Commission reject the PG&E proposal, and instead adopt, the
2 traditional cost-based rate differential for the Redwood and Baja backbone
3 transmission paths.

4 ORA's recommended backbone transmission rates shown in Table 17-2 are
5 based on (1) the adoption of ORA throughput forecasts and SALFs; (2) the adoption
6 of ORA's recommendations on Backbone Transmission revenue requirements; and
7 (3) the continuation of the existing Gas Accord cost allocation and rate design
8 methodologies previously approved by the Commission.

9 **B. PG&E Local Transmission**

10 PG&E proposes to continue the existing cost allocation and single average
11 local transmission rate design for core and a single average local transmission rate
12 for noncore and wholesale customers.⁴⁴ PG&E's local transmission costs are
13 allocated to core and noncore customer classes based on cold year forecast
14 coincident peak month demands.⁴⁵ In PG&E's cold year throughput forecast
15 presented in Chapter 14, "Throughput Forecast," the coincident peak month is
16 December.⁴⁶ ORA's recommended throughput forecasts in this rate case are
17 presented in ORA Exhibit 14. In calculating the Local Transmission rates, the costs
18 allocated to each class are divided by the adopted throughput forecast.⁴⁷ PG&E's
19 local transmission rates are non-bypassable for all customers not qualifying for
20 backbone level end-user service and PG&E proposes to continue this rate
21 treatment.⁴⁸ Customers qualifying for backbone level end-use service are exempt
22 from paying the local transmission rate component in their end-use tariff. However,
23 these customers continue to be responsible for all other rate components in their

⁴⁴ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-6.

⁴⁵ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-6. This cost allocation methodology was established in the Long Run Marginal Cost Decision 92-12-058.

⁴⁶ Table 14-2, PG&E Prepared Testimony, Volume 2 (Swanson), p.14-3.

⁴⁷ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-6.

⁴⁸ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-6.

1 end-use tariffs.⁴⁹ PG&E further explains backbone level end-use service and what
2 rules apply to the customers who qualify for this service.⁵⁰ In addition, PG&E notes
3 that the local transmission cost allocation and rate calculations continue to be
4 adjusted for forecast local transmission rate discounts.⁵¹ Past Gas Accords also
5 included adjustments for forecast local transmission rate discounts. ORA is in
6 agreement with PG&E's proposal to continue the existing cost allocation and rate
7 design for local transmission.

8 **C. PG&E's Gas Storage**

9 No changes are proposed by PG&E to the existing cost allocation and rate
10 design methodology for the three storage services: core firm storage, monthly
11 balancing and market storage services.⁵² The storage cost of service will continue
12 to be allocated to the storage services (core firm, standard firm and monthly
13 balancing) based on the *pro rata* share of current annual injection, inventory and
14 withdrawal cycling capacity assigned to each service for the 2015-2017 rate case
15 period.⁵³ Storage shrinkage is applied to firm injection for the core firm and
16 standard firm storage services. Shrinkage for the storage balancing function is
17 bundled with backbone shrinkage.⁵⁴ PG&E's monthly core procurement rates
18 include core gas storage rates.⁵⁵ ORA is in agreement with PG&E's proposal to
19 continue the existing cost allocation and rate design methodology for the three
20 storage services.

⁴⁹ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-5.

⁵⁰ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-5 and fn. 3.

⁵¹ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-6 and fn. 4, and PG&E Workpapers, Chapter 17, p. WP17-23 to 17-24.

⁵² PG&E Prepared Testimony, Volume 2 (Niemi), p.17-7.

⁵³ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-7.

⁵⁴ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-7.

⁵⁵ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-7.

1 **D. Transmission Level Customer Access Charges**

2 There are no changes proposed by PG&E for transmission level customer
3 access charges. PG&E proposes to continue scaling the currently adopted
4 customer access charges multiplied by the forecast of customers by tier such that
5 the resulting revenues match the customer access charge revenue requirement.⁵⁶
6 ORA is in agreement with PG&E's proposal to continue the existing methodology for
7 transmission-level customer access charges.

8 **IV. DISCUSSION / ANALYSIS Of PG&E's Cost Allocation and Rate**
9 **Design Proposals**

10 This section discusses PG&E's cost allocation and rate design proposals.

11 In Tables 17-1 through 17-5 shown in ORA's Summary of Recommendations,
12 the last two columns on the right show the amount in dollars and in percentage by
13 which the PG&E proposal exceeds ORA's recommendations. PG&E's proposed
14 rates for its 2015 GT&S are substantially higher than ORA's recommendations for
15 backbone transmission, local transmission, gas storage, and transmission-level
16 CACs. The substantial differences in the GT&S rates between PG&E and ORA are
17 primarily due to differences in revenue requirements in the Test year 2015 and the
18 post-test years 2016 and 2017 and to a lesser degree the forecast throughput. In
19 addition, in the case of backbone transmission, the difference in rate design for
20 Redwood and Baja paths also results in significant differences in the backbone
21 transmission rates for these two paths.

22 To illustrate this last point, Table 17-6 is a side by side comparison showing
23 the TY 2015 rates under PG&E's proposed equalized rates and under the traditional
24 cost-based rates. Note that Table 17-6 uses PG&E's proposed backbone
25 transmission revenue requirements for test year 2015 presented below.

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⁵⁶ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-9.

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Table 17-6
Comparison of Backbone Transmission Rates for TY2015
Equalized Rates and Traditional Cost-based Rates
(In \$/Dth)

Description (a)	Traditional Rates ⁵⁷ (b)	Equalized Rates ⁵⁸ (c)	Amount Equalized>Traditional (d=c-b)	Percentage Equalized>Traditional (e=d/b)
Redwood Core	\$0.386	\$0.460	\$0.074	19.2%
Baja Core	\$0.642	\$0.460	(\$0.182)	(28.3%)
Redwood Noncore	\$0.437	\$0.512	\$0.075	17.2%
Baja Noncore	\$0.642	\$0.512	(\$0.130)	(20.2%)
Silverado/Mission	\$0.323	\$0.323	\$0.0	0%
G-XF	\$0.204	\$0.204	\$0.0	0%

5

6 Table 17-6 shows that for the Test Year 2015, the traditional cost-based rates
7 in column “b” are lower for the Redwood Paths for both Core and Noncore
8 customers by up to 19.2% while the Baja Path rate is higher by up to 28.3% for both
9 Core and Noncore under traditional cost-based rates. For the Core, the Baja Path
10 rates have historically been more expensive than the Core Redwood Path rates, with
11 a 35 percent rate differential in 1998 which has widened through the first part of
12 2011, and then started narrowing down to an 18 percent rate differential in 2014.⁵⁹
13 For the Noncore, the Baja Path rates have historically been less expensive than the
14 Noncore Redwood Path rates since 1998 until 2007.⁶⁰ Starting in 2008 under Gas
15 Accord IV, the Noncore Baja Path rates became more expensive than the Noncore
16 Redwood Path rates by approximately an 8 percent rate differential which has
17 increased to a 15 percent rate differential in 2014.⁶¹ The results shown in Table 17-
18 6 at column “b” should be compared against ORA’s recommended Backbone
19 Transmission rates shown in Table 17-2 at column “b”. The rates shown in column

⁵⁷ As shown in PG&E’s Backbone Transmission Rate Model.

⁵⁸ Table 17-1, PG&E Prepared Testimony, Volume 2 (Niemi), p. 17-5.

⁵⁹ PG&E Response to ORA-DR-15-Q5Atch1.

⁶⁰ Id.

⁶¹ Id.

1 “b” for both tables use the traditional rates and are different only with respect to the
2 revenue requirements and throughput forecast.

3 With respect to Gas Storage, PG&E proposes to increase core’s winter
4 withdrawal rights in the months of December and January and to decrease them in
5 the months of February and March. When asked to explain the cost allocation and
6 rate impact of PG&E’s proposal regarding core’s winter withdrawal rights as
7 described in Table 10-12, PG&E explains:⁶²

8 The core storage revenue requirement and rate impact for 2015 is affected by
9 two proposals: a reduction in the core’s storage withdrawal rights over the
10 entire withdrawal season, and a shift of the calendar day used to allocate
11 withdrawal capacity from March 31 to January 15.

12
13 ...CGS’s proposed changes result in a net unit decrease of 2,638 million
14 decatherms (MDth) for 2015 storage withdrawal units. Using the 2011 GT&S
15 unit cost for storage of \$208/MDth, this yields an estimated cost reduction of
16 \$549,000. Second, CGS’s proposed alteration to core’s firm storage
17 withdrawal rights profile includes (among other changes) the addition of 122
18 MDth/d for the period of December 1 through January 15 on top of its current
19 adopted firm withdrawal rights, and a decrease in March withdrawal rights of
20 250 MDth/d.

21
22 Firm withdrawal capacity rights are constrained by the physical capability of
23 the system. Firm daily withdrawal capacity is determined in part by the
24 amount of working gas in PG&E’s storage fields because a certain amount of
25 gas inventory is required to provide sufficient pressure to support firm
26 withdrawals. However, there is only a certain amount of working gas in
27 storage that PG&E can control—working gas it owns, and customer gas
28 mandated by PG&E’s tariffs to be in storage.

29
30 The remaining working gas is controlled by customers. PG&E cannot rely on
31 customer-controlled gas to be in storage to provide pressure support for firm
32 withdrawals. Therefore, when allocating firm daily withdrawal capacity to
33 PG&E’s three firm storage services, PG&E determines the day in the
34 withdrawal season on which firm daily withdrawal capacity is constrained; that
35 is, when firm physical daily withdrawal capacity is equal to the daily
36 withdrawal rights under PG&E control.

37
38 Under PG&E’s proposal to add 122 MDth/d of core withdrawal capacity from
39 December 1 through January 15, the last day on which PG&E can satisfy the
40 firm rights of both core and balancing with the working gas it controls moves

⁶² PG&E Response to ORA-DR-24-Q12a.

1 forward to January 15. This is because core's additional firm withdrawal rights
2 of 122 MDth through January 15 allow it to deplete inventory at a faster rate.

3
4 After PG&E determines how much withdrawal capacity must be reserved for
5 the core and for system balancing, the residual withdrawal capacity is
6 allocated to market storage.

7
8 Adding 122 MDth of withdrawal capacity from December 1 through January
9 15 and the resultant shift of the capacity allocation point to January 15
10 increased CGS's proportion of total withdrawal capacity. This increases the
11 allocated cost to core by \$2,400,000. The increase is offset by the \$549,000
12 attributable to the reduction in total storage units across the winter, discussed
13 above. The net estimated increase in core storage revenue requirement is
14 \$1,851,000.
15

16 PG&E's Response shows that the end-use class average rates could
17 increase by \$0.007/dth if PG&E's proposal on core winter withdrawal changes were
18 approved.⁶³ In terms of the average residential monthly bill impact, the proposed
19 core winter withdrawal changes could increase the residential monthly bill by
20 approximately \$0.02/month. As stated in ORA's Exhibit 10 under "other PG&E
21 Proposals", ORA does not oppose PG&E's proposed core winter withdrawal
22 changes.

23 As discussed in ORA Exhibit 10, PG&E proposes to reallocate more injection
24 capacity and withdrawal capacity of storage assets for load balancing. PG&E states
25 that approximately 14% of storage revenue requirement is allocated to balancing at
26 this time.⁶⁴ PG&E states that approximately 32% of storage revenue requirement is
27 allocated to balancing under the PG&E proposal in the 2015 GT&S rate case.⁶⁵ In
28 both responses, PG&E states: "[t]he balancing revenue requirement is recovered
29 through backbone transmission rates." In Table 17-3 of PG&E's 2015 GT&S
30 Testimony, PG&E provides the proposed storage service rates for 2015 through
31 2017. When asked to explain whether the PG&E request to allocate the requested
32 additional storage capacity to load balancing will have any expected rate impact to

⁶³ PG&E Response to ORA-DR-24-Q12Atch1.

⁶⁴ PG&E Response to ORA-DR-24-Q11c.

⁶⁵ PG&E Response to ORA-DR-24-Q11d.

1 end-user rates, PG&E responds to confirm that its proposal to allocate additional
2 storage capacity to load balancing has an impact on end-user rates.⁶⁶ PG&E
3 confirmed that its proposal has an impact on backbone transmission rates.⁶⁷
4 Finally, PG&E also explains that its proposal has an impact on gas storage rates.⁶⁸
5 According to PG&E, the rate impacts on Residential (NonCARE) class average end-
6 use rates are estimated increases of \$0.005/Dth in Test Year 2015 and \$0.006/Dth
7 in Post Test Years 2016 and 2017.⁶⁹ PG&E shows that the rate impacts on
8 Backbone Transmission rates on the Core Redwood, Core Baja, Noncore Redwood,
9 and Noncore Baja Paths under either the equalized rate design or the traditional rate
10 design are estimated increases of \$0.023/Dth in Test Year 2015, \$0.022/Dth in Post
11 Test Year 2016, and \$0.023/Dth in Post Test Year 2017.⁷⁰ According to PG&E, the
12 rate impacts of its proposal on Gas Storage rates show estimated decreases of
13 \$0.014/Dth to core firm storage rates in test year 2015, \$0.018/Dth to standard firm
14 storage rates in test year 2015, and negotiated firm and as-available storage rates
15 for injection and withdrawal of \$1.009/Dth/d and \$1.556/Dth/d, for injection and
16 withdrawal, respectively, in 2015. The latter rate impacts on Gas Storage rates
17 seem counter-intuitive to ORA given the proposed increase in storage revenue
18 requirement for load balancing. PG&E explains the reasons for the expected
19 decrease on gas storage rates associated with its proposal to reallocate more
20 injection capacity and withdrawal capacity of storage assets for load balancing.
21 PG&E states:⁷¹

22
23
24

1) Under PG&E's proposal, some capacities currently allocated to Market Storage would be reallocated to Pipeline Balancing. This would decrease

⁶⁶ PG&E Response to ORA-DR-62-Q2.

⁶⁷ PG&E Response to ORA-DR-62-Q2.

⁶⁸ PG&E Response to ORA-DR-62-Q2.

⁶⁹ PG&E Response to ORA-DR-62-Q2Atch1.

⁷⁰ PG&E Response to ORA-DR-62-Q2Atch1.

⁷¹ PG&E Response to ORA-Oral16-Q1.

1 the share of capacity, and therefore storage units, that go to Market
2 Storage and increase the share of capacities and storage units that go to
3 Pipeline Balancing. This decrease in the share of storage units for Market
4 Storage decreases the rates for Market Storage and likewise increases
5 the backbone rates because that is where the Pipeline Balancing costs
6 are recovered.

7
8 2) The second reason is that the total number of storage units increases
9 when providing the additional capacity to Pipeline Balancing. While the
10 number of Core's storage units remained the same, the total number of
11 storage units increased. The total storage units would increase because the
12 length of time during the year that balancing would have the capacities
13 reserved is greater than the time during the year that Market Storage had the
14 capacities reserved. This effectively reduced core's overall percentage of the
15 whole even though their number of storage units did not change.
16 Consequently, Market Storage's share of revenue requirements is reduced.
17 When this is combined with reduction in the capacity share, core storage
18 rates would be reduced.

19
20 The gas storage monthly balancing requirements are recovered in backbone
21 transmission rates. Even though the gas storage rates show a decrease, the impact
22 of the PG&E proposal is to increase the backbone transmission rates. The projected
23 amount of increase in the backbone transmission rates are greater than the amount
24 of decrease in the gas storage rates using PG&E's proposed revenue requirements..
25 ORA opposes PG&E's proposal to reallocate the requested additional storage
26 capacity to load balancing. ORA recommends keeping storage capacity for load
27 balancing at current levels until PG&E meets its burden of proof to demonstrate the
28 need for the reallocation of additional storage for load balancing.

29 ORA's review reveals that PG&E's proposed GT&S rates are expected to
30 ultimately result in higher PG&E rates at the end-use level in 2015-2017. In order to
31 compare the resulting rates at the end-use level, ORA requested PG&E to provide
32 the calculation of the illustrative class average end-use rates so that ORA could
33 compare the resulting end-use rates with ORA's recommendations similar to those
34 presented in Table 17-5 of PG&E's Testimony for PG&E's proposals. On March 31,
35 2014, PG&E provided ORA with the "Integrated Model" on a CD which will produce

1 all of the tables in PG&E's testimony and testimony attachments.⁷² A walk-through
2 of the model followed on April 8, 2014 attended by both ORA and Energy Division
3 staff.

4 To put PG&E's end-use class average rates in perspective, the Gas Accord V
5 settled rates resulted in average end-use rates increasing by 0.7% for non-CARE
6 residential customers as shown in Table 17-7 at column "d". Industrial transmission
7 customers saw a 6% increase in their rates. Electric Generation customers on
8 Distribution/Transmission saw an 18.7% increase in their rates.

9 The proposed GT&S 2015 rates, as proposed by PG&E, are estimated to
10 result in average end-use rates that could pose a major rate shock to PG&E's
11 customers. PG&E's non-CARE residential customers would see 12.6% higher rates
12 in 2015 compared to the present rates as shown in column "h" in Table 17-7.
13 Industrial transmission customers would see 57.9% higher rates in 2015 compared
14 to present rates. Electric Generation customers on Distribution/Transmission would
15 see 102.2% higher rates in 2015 compared to present rates.

16 The following comparison presented in Table 17-7 summarizes the illustrative
17 end-use class average rates discussed in the foregoing. Table 17-7 shows two
18 comparisons: First, the end-use rates under the Gas Accord V rates when compared
19 to the then present rates on 8/1/2010. Second, the end-user rates under PG&E's
20 2015 GT&S proposals compared to the present rates on 1/1/2014. More
21 importantly, the percentage difference between the end-use class average rates
22 under the GA V and the PG&E 2015 GT&S Proposals are shown in the rightmost
23 column (i) of Table 17-7. Note that Core Retail bundled rates include the commodity
24 gas cost recovered through core procurement rates. Under the GA V, the illustrative
25 end-use rate calculation uses a weighted average cost of gas of \$0.5982 per

⁷² PG&E Response to ORA-DR-Oral1-Q1.

1 therm.⁷³ Under PG&E's 2015 GT&S proposals, the weighted average cost of gas in
2 the calculation is \$0.37184.⁷⁴

3 ORA's recommendations will result in the illustrative end-use class average
4 rates in Table 17-8 presented in the succeeding comparison table below.
5 Comparing Table 17-7 and Table 17-8, at column "h" of these tables, ORA's
6 recommendations will result in slightly lower en-use rates to customers. Except for
7 the equalized backbone transmission rate design, ORA does not oppose PG&E's
8 proposal to continue the existing cost allocation and rate design methodologies, but
9 would recommend that the cost allocation and rates be based on ORA's
10 recommended revenue requirements shown in ORA Exhibit 16 and ORA's
11 recommended throughput forecasts shown in ORA Exhibit 14.

12 In terms of the average residential bill and small commercial customer bill,
13 PG&E explains the rate and bill impacts of its proposals below:⁷⁵

14 If the application is approved, gas rates and bills will increase effective
15 January 1, 2015. A typical residential customer using 34 therms per
16 month would see an average monthly gas bill increase of \$5.23 (or 12.6
17 percent), from \$41.53 to \$46.76. A typical small business customer using
18 284 therms per month would see an average monthly gas bill increase of
19 \$42.50 (or 16 percent), from \$266.15 to \$308.65. Individual customers'
20 bills will differ.

21
22 ORA's recommendations will result in the following average residential bill
23 impact and small commercial customer bill: A typical residential customers using
24 34 therms per month would see an average monthly gas bill increase of \$4.73 (or
25 11.4 percent, from \$41.53 to \$46.26. A typical small business customer using
26 282 therms per month would see an average monthly gas bill increase of \$38.67
27 (or 14.6 percent), from \$264.28 to \$302.95.⁷⁶

⁷³ As filed in PG&E Advice Letter 3060-G and 3060-G-A.

⁷⁴ As shown in PG&E Integrated Rate Model in the 2015 GT&S.

⁷⁵ PG&E Prepared Testimony, Volume 2 (Niemi), p.17-13.

⁷⁶ Based on ORA's run of the PG&E rate models based on ORA's recommendations.

