
Results of Operations Issues for Pacific Gas and Electric Company

**Prepared testimony of
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California Public Utilities Commission
Application 12-11-009**

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1 **I. INTRODUCTION**

2 This testimony is sponsored by Jeffrey A. Nahigian, Senior Economist with JBS Energy,
3 Inc., on behalf of The Utility Reform Network (TURN). Mr. Nahigian has over 27 years
4 of experience analyzing electric and gas utility issues and has appeared before this
5 Commission on numerous occasions. His qualifications are attached to this testimony
6 (Attachment 1).

7 Mr. Nahigian addresses Customer Care issues associated with customer inquiry
8 assistance costs, meter to cash costs, and metering. He also includes TURN's
9 recommendations to implement and finalize an audit of PG&E's SmartMeter costs, that
10 was ordered by the Commission in D. 1108-015.

11 The other major portion of Mr. Nahigian's testimony address PG&E's corporate real
12 estate expenditures for shared services functions as well as PG&E's proposed real estate
13 investments for specific operating divisions such as the gas distribution and the energy
14 supply departments.

15 The results of Mr. Nahigian's analysis are contained in the following Table 1.

1
2
3

**Table 1:
TURN Recommended Cost Adjustments ('000 \$Nominal)
(2014 Expenses and 2012-2016 Capital)**

Customer <input type="checkbox"/> Inquiry <input type="checkbox"/> Assistance <input type="checkbox"/> (CI) Expense <input type="checkbox"/>	Capital <input type="checkbox"/>
Service <input type="checkbox"/> Level <input type="checkbox"/> Improve	\$ <input type="checkbox"/> 05,941
Customer <input type="checkbox"/> Advocacy <input type="checkbox"/> Team	\$ <input type="checkbox"/> 01,770
Non-Recurring <input type="checkbox"/> Cost <input type="checkbox"/> in <input type="checkbox"/> 2011	\$ <input type="checkbox"/> 02,470
Peak <input type="checkbox"/> Time <input type="checkbox"/> Rebates	\$ <input type="checkbox"/> 04,595
Supervisors <input type="checkbox"/>	\$ <input type="checkbox"/> 05,535
Training <input type="checkbox"/>	\$ <input type="checkbox"/> 01,135
Meter <input type="checkbox"/> to <input type="checkbox"/> Cash	
Energy <input type="checkbox"/> Data <input type="checkbox"/> Services	\$ <input type="checkbox"/> 03,775
Manually <input type="checkbox"/> Process <input type="checkbox"/> Interval <input type="checkbox"/> Data	\$ <input type="checkbox"/> 03,015
Increased <input type="checkbox"/> SONP <input type="checkbox"/> from <input type="checkbox"/> Opt <input type="checkbox"/> Out	\$ <input type="checkbox"/> 01,755
Customer <input type="checkbox"/> Risk <input type="checkbox"/> Analysis <input type="checkbox"/> Software	\$ <input type="checkbox"/> 03,000
Revenue <input type="checkbox"/> Assurance <input type="checkbox"/> Costs	\$ <input type="checkbox"/> 01,335
Metering <input type="checkbox"/>	
Meter <input type="checkbox"/> Reading <input type="checkbox"/>	\$ <input type="checkbox"/> 05,894
Meter <input type="checkbox"/> Maintenance	\$ <input type="checkbox"/> 04,830
Customer <input type="checkbox"/> Care <input type="checkbox"/> Real <input type="checkbox"/> Estate	
Customer <input type="checkbox"/> Inquiry <input type="checkbox"/> Assistance	\$ <input type="checkbox"/> 05,655
Meter <input type="checkbox"/> to <input type="checkbox"/> Cash <input type="checkbox"/>	\$ <input type="checkbox"/> 01,475
Real <input type="checkbox"/> Estate <input type="checkbox"/>	
Base <input type="checkbox"/> and <input type="checkbox"/> Seismic <input type="checkbox"/> Building <input type="checkbox"/> Program <input type="checkbox"/>	\$ <input type="checkbox"/> 13,268
Real <input type="checkbox"/> Estate <input type="checkbox"/> Solutions <input type="checkbox"/> Program <input type="checkbox"/>	\$ <input type="checkbox"/> 02,937
Real <input type="checkbox"/> Estate <input type="checkbox"/> not <input type="checkbox"/> in <input type="checkbox"/> Shared <input type="checkbox"/> Services	
Bakersfield <input type="checkbox"/> Office <input type="checkbox"/>	\$ <input type="checkbox"/> 02,837
Relocate <input type="checkbox"/> Quincy <input type="checkbox"/> Service <input type="checkbox"/> Center	\$ <input type="checkbox"/> 05,115
Relocate <input type="checkbox"/> Clearlake <input type="checkbox"/> Service <input type="checkbox"/> Center	\$ <input type="checkbox"/> 05,400
Relocate <input type="checkbox"/> Walnut <input type="checkbox"/> Creek <input type="checkbox"/> Service <input type="checkbox"/> Center	\$ <input type="checkbox"/> 04,115
Fairfield <input type="checkbox"/> DC <input type="checkbox"/> Redundant <input type="checkbox"/> Power <input type="checkbox"/> Feed	\$ <input type="checkbox"/> 01,520
San <input type="checkbox"/> Ramon <input type="checkbox"/> Gas <input type="checkbox"/> HQ <input type="checkbox"/> Construct	\$ <input type="checkbox"/> 17,437
San <input type="checkbox"/> Ramon <input type="checkbox"/> Gas <input type="checkbox"/> HQ <input type="checkbox"/> Rent <input type="checkbox"/>	\$ <input type="checkbox"/> 01,528
Fifth <input type="checkbox"/> Floor <input type="checkbox"/> Gas <input type="checkbox"/> Dispatch <input type="checkbox"/> Center	\$ <input type="checkbox"/> 17,828
Gas <input type="checkbox"/> Control <input type="checkbox"/> Hot <input type="checkbox"/> Backup	\$ <input type="checkbox"/> 02,905
Gas <input type="checkbox"/> Training <input type="checkbox"/> Center	\$ <input type="checkbox"/> 02,080
Roseville <input type="checkbox"/> Service <input type="checkbox"/> Center	\$ <input type="checkbox"/> 01,274
Antioch <input type="checkbox"/> Service <input type="checkbox"/> Center	\$ <input type="checkbox"/> 02,755
Vaca <input type="checkbox"/> Dixon <input type="checkbox"/> Sub <input type="checkbox"/> GF <input type="checkbox"/> Yard <input type="checkbox"/> Building	\$ <input type="checkbox"/> 08,700
Humboldt <input type="checkbox"/> Bay <input type="checkbox"/> Generating <input type="checkbox"/> Station <input type="checkbox"/>	\$ <input type="checkbox"/> 01,628
Alternate <input type="checkbox"/> HQ <input type="checkbox"/> and <input type="checkbox"/> EOC	\$ <input type="checkbox"/> 19,800
Total <input type="checkbox"/> Reduction <input type="checkbox"/>	\$ <input type="checkbox"/> 85,478

4

1 **II. Customer Care Issues (PG&E-5)**

2 In this section, TURN provides its recommendations for funding certain customer care
3 (also referred to as customer service) issues contained in PG&E-5. In particular, we
4 analyze PG&E's forecasts of customer inquiry assistance (CIA), meter to cash (MTC),
5 and metering costs as described in Chapters 2, 4, and 5 of that exhibit.

6 Regarding CIA costs in Chapter 2, TURN recommends a reduction in TY expenses of
7 approximately \$15.571 million, primarily due to the elimination of unnecessary
8 additional customer service representative positions and the elimination of costs related
9 to the Peak Time Rebate program, which are appropriately addressed in another
10 proceeding.

11 TURN recommends a reduction in the TY expense forecast of meter to cash costs of
12 approximately \$25.982 million, primarily by eliminating \$18.8 million for manual
13 processing of SmartMeter data errors. PG&E had clearly forecast using SmartMeter
14 interval data for billing purposes in its AMI application, and it should not be allowed to
15 argue now that it had never intended to actually use SmartMeter data for billing
16 purposes. TURN also adjusted PG&E's proposed test year costs for customer shut-off for
17 non-payment (SONP) activities by updating PG&E's forecast SmartMeter Opt-Out
18 Program (SMOOP) customers in the test year. Adjustments were also made to PG&E's
19 proposed software costs, its increased revenue assurance protection staffing, as well as
20 corporate real estate costs associated with increased staffing that TURN believes is
21 unnecessary.

22 For Chapter 5, TURN reduced PG&E's proposed meter reading costs by almost \$27
23 million to be consistent with the realistic forecast of opt-out customers. TURN adjusted
24 downward PG&E's proposed SmartMeter meter maintenance costs by \$4.83 million to
25 be consistent with the costs PG&E used in both of its advanced metering infrastructure
26 applications.

27 Generally, TURN's discussion of customer care issues is organized by PG&E chapter.
28 However, TURN discusses PG&E's request to fund a) meter reading of opt-out
29 customers, (Metering, Chapter 5) and b) exceptions processing of SmartMeter interval

1 data (Meter to Cash, Chapter 4) first, because they constitute TURN's larger cost
 2 adjustments to PG&E's forecast of Customer Care costs.

3 TURN's recommended adjustments to PG&E's 2014 customer service cost estimates are
 4 contained in Table 1.

5 **Table 2**
 6 **TURN Adjustments to PG&E's 2014 Customer Care Costs ('000\$ Nominal)**

	PG&E	TURN	Capital	Expense	Primary	Alternative	Primary	Alternative	Primary	Alternative
Customer Service										
Level Improve	\$1,702									
Advocacy Team	\$1,702									
Non-Recurring Cost 2011	\$1,702									
Peak Time Rebates	\$1,902									
Supervisors	\$1,902									
Training	\$1,902									
Meter to Cash										
Energy Data Services	\$1,152									
Manually Process Interval Data	\$1,152									
Increased SONP from Opt-Out	\$1,152									
Customer Risk Analysis Software	\$1,152									
Revenue Assurance Costs	\$1,152									
Metering										
Meter Reading	\$5,582									
Meter Maintenance	\$5,582									
Real Estate										
Customer Inquiry Assistance	\$1,998									
Meter to Cash	\$1,998									
Total	\$17,998									
Other Operating Revenues										
Opt Out Fees										

8 **A. Two Adjustments Reflect TURN's Adjustment to PG&E's Inflated Forecast**
 9 **Related to Meter Reading and Processing SmartMeter Data**

10 **1. Meter Reading Expenses**

11 Despite reporting that its SmartMeter deployment will finally be completed by 2014,
 12 PG&E forecasts that it will still cost \$32.582 million to read meters in 2014. Indeed,
 13 PG&E forecasts the need for 200 meter readers in 2014, as compared to 457 meter readers
 14 in 2014. This does not sound like the type of reduction one would expect from a utility
 15 that has converted almost all of its 10 million electric and gas meters to communicating
 16 interval meters. PG&E blames the need to retain about 43% of its meter reader force on
 17 its SmartMeter Opt-Out program (SMOOP), which currently has about 35,000
 18 participants.¹

¹ PG&E-05, p. 5-13 and 5-14, p. WP 5-34. the 234,065 meters that will need to be read manually.

1 .

2 TURN strongly opposes PG&E's request, since its forecast of SMOOP participation is
3 entirely at odds with actual participation numbers and with PG&E's own forecast of
4 participation in A.11-03-014.

5 In this rate case PG&E forecasts 200,600 SMOOP customers on January 1, 2014 (and
6 234,065 total meters requiring meter reading).² In the Opt Out proceeding (A.11-03-014)
7 PG&E forecast a total of 54,000 customers by January 2014 (equating to 89,952 meters).³

8 As of April 2013, PG&E had a total of 35,338 customers in the Opt-Out Program.⁴ In
9 comparison, PG&E's forecast in its SMOOP testimony assumed it would have 39,624
10 SMOOP customers by the end of April 2013.⁵ PG&E is on course to sign up 90% of the
11 SMOOP customers it forecast it would have on January 1, 2014. To reach its general rate
12 case forecast, PG&E would have to sign up an additional 166,262 SMOOP customers in
13 the next 8 months.

14 Such a huge increase in additional SMOOP participants is entirely unrealistic. New
15 customers signing up for PG&E's SMOOP have slowed to a trickle. As of October 1,
16 2012, 31,500 customers had opted out of the SmartMeter program.⁶ By April 2013, PG&E
17 had added 3,838 opt out customers in a seven-month period, or an average of 548
18 customers per month. At this rate, PG&E will only add 4,386 new opt out customers by
19 January 1, 2014 – resulting in a little less than 40,000 opt out customers for the test year.⁷
20 It is obvious that a majority of those customers who wished to opt-out did so at the
21 earliest possible opportunity.

² PG&E-5, WP 4-17 and WP 5-34.

³ A. 11-03-014, Workpapers supporting Chapter 1 on Customer Participation included as Attachment 11.

⁴ Attachment to TURN #59.Q1 included as Attachment 12.

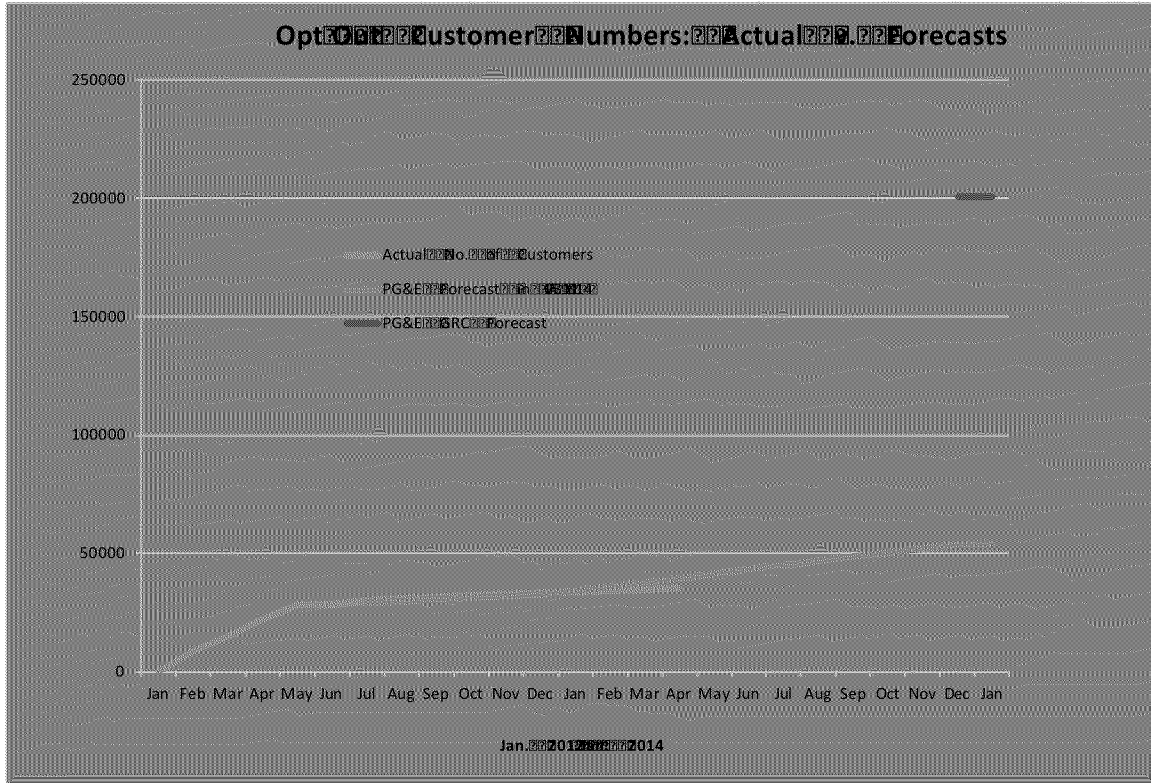
⁵ Attachment 11..

⁶ PG&E-5, Chapter 10, p. 10-8

⁷ PG&E's GRC testimony forecast that it will add only 70 new opt out customers in 2014 (PG&E5, WP 5-34). Add this to the 39,724 customers TURN calculated on a prorated basis results in approximately 40,000 SMOOP customers.

1 The unreasonableness of PG&E's forecast in this rate case is illustrated in Figure 1,
 2 which shows a) PG&E's opt out customer participation levels forecast in A. 11-03-014, b)
 3 PG&E's forecast in this application and c) actual recorded participation through April
 4 2013.

5 **Figure 1: Smart Meter Opt-Out Program Participation Forecasts**



6
 7 PG&E claims that uncertainty over a final decision in Phase II of the SMOOP case
 8 justifies PG&E's higher forecast and that if there is a decision in that proceeding during
 9 the course of this proceeding "PG&E may update its estimated participation rates and
 10 related costs." ⁸ PG&E's argument is entirely without merit. The outcome of the Phase II
 11 decision will not likely impact participation, as the Commission has given no indication
 12 that it plans to make opt-ing a free choice. TURN recommends that meter reading costs
 13 be based on a forecast of 40,000 opt-out participants.

14 Using PG&E's assumption that 2/3 of these customers have both gas and electric service
 15 from PG&E results in 66,400 meters to be read for SMOOP customers.

⁸ PG&E-5, Chapter 10, p. 10-10

1 PG&E then forecasts an additional 33,395 meters to be read.⁹ 15,600 of these meters are
2 meters that PG&E admits cannot feasibly be connected to its SmartMeter system. The
3 remaining 17,795 meters are SmartMeters that are forecast to be off-line for maintenance;
4 thus necessitating the need for manual meter reads. Add these to TURN's SMOOP
5 forecast of 66,400 meters results in 99,795 meters in 2014 that may need a manual meter
6 read, rather than the 234,065 forecast by PG&E.

7 After adjusting PG&E's forecast of the number of meters to be read, TURN adjusts
8 PG&E's unit cost per meter read downward. PG&E's meter reading unit costs are based
9 on a 2011 cost of \$10.69 per meter read based on "Change of Party" (CP) meter reads
10 that are performed outside of the normal meter reading schedule.¹⁰ PG&E has chosen
11 the most expensive type of meter read to base its forecast on, because of the random
12 nature of CP meter reads.

13 PG&E's recorded cost in 2011 for reading CP meters is over double what it cost PG&E to
14 read SMOOP meters. In the SMOOP proceeding PG&E assumed a \$5.00/meter reading
15 cost based on the recorded cost from March 2012 through June 2012 to read these
16 meters.¹¹ This is consistent with PG&E's recorded costs for reading SMOOP meters from
17 June, 2012 through December 2012 – that resulted in a per unit cost of \$4.80/meter.¹²

18 Therefore, TURN calculated PG&E's 2014 meter reading costs by multiplying \$5.00 per
19 meter by 99,795 meters, by 12 months. This is a conservative calculation because it
20 assumes PG&E will read each of these meters every month.¹³ This calculation results in
21 meter reading cost of \$5.988 million in test year 2014. The Commission should adopt this
22 amount and lower PG&E's 2014 expense forecast for MWC AR by \$26.6 million.

⁹ PG&E-5, WP 5-34

¹⁰ PG&E-5, WP 5-35

¹¹ A. 11-03-014, PG&E Workpapers 3-4, Meter Reading Expense included as Attachment 2.

¹² Attachment to TURN #59.Q2, included as Attachment 3.

¹³ In the opt out proceeding there were many parties that suggested less than 12 meter reads per year for opt out customers to reduce the costs of opting out. The CPUC has yet to decide that issue, but if it does adopt less frequent meter reads, PG&E's meter reading costs should drop accordingly.

1 The biggest single operational benefit that ratepayers were supposed to receive from
2 advanced metering systems was the avoidance of meter reading costs. Specifically,
3 PG&E's ratepayers were supposed to receive an annualized benefit of avoiding \$86.2
4 million per year (2005 \$) in meter reading costs⁴ But, if PG&E's forecasts and proposals
5 for meter reading costs are accepted by the Commission, ratepayers will receive less
6 than 2/3 of the largest single operational benefit associated with advanced meters.

7 ***2. Pre-billing Activities to Manually Process SmartMeter Data***

8 PG&E requests \$18.8 million in billing operations support to hire 188 additional FTEs to
9 process interval exceptions from its SmartMeter program, plus \$406,000 for 4 more
10 related positions.¹⁵ PG&E claims that the future large scale implementation of time of
11 use and dynamic pricing options means exception processing of interval data on a
12 broader and larger scale than ever envisioned by PG&E. PG&E claims that it will need to
13 increase daily exception processing from the current level of 500 transactions per day to
14 approximately 50,000 transactions per day and the incremental \$18.8 million will allow it
15 to hire the staff to manually process these billing exceptions.

16 TURN opposes PG&E's funding request as unnecessary and duplicative of earlier
17 funding requests. PG&E claims, in this proceeding, that the need to process interval data
18 for all of its SmartMeter customers is a new surprise and that it had little idea when it
19 filed its application (A. 05-06-028) that it would have to process large amounts of
20 customer interval data. This is not true. PG&E knew it would have to process large
21 amounts of interval data when it filed its AMI application, which is why it requested
22 (and received authorization for) an \$85 million interval billing system (Dec. 06-07-027,
23 Table 1, p. 29) as well as \$6.6 million for billing exceptions.

24 "The implementation costs and on-going operations and maintenance
25 (O&M) expenditures described in this chapter are necessary to upgrade
26 the existing billing system such that it is able to process and produce
27 billing information according to the interval data it receives from the AMI

¹⁵ PG&E-5, WP 4-28. PG&E explains that the incremental increase over 2011 costs for the 188 new FTEs is \$13.7 million, as the \$18.8 million increase is partially offset by a \$5.2 million reduction in costs associated with exception processing for legacy (non-SmartMeter) service locations. PG&E-5, pp. 4-17 - 4-18.

1 Interface System (A. 05-06-028, PG&E-2, Chapter 3, p. 3-1, included as
2 Attachment 4).

3 Version 1.5 of the CC&B will allow PG&E to bill using the interval data
4 provided by the new AMI metering equipment and the new dynamic
5 pricing structures (A. 05-06-028, PG&E-2, Chapter 3, p. 3-6, included as
6 Attachment 5).

7 For example, PG&E has assumed that it will use interval data produced
8 on an hourly basis for residential customers, if this requirement were
9 revised to be interval data for every five minutes for every residential
10 customer, then PG&E would need to substantially revise its estimates.”
11 (A. 05-06-028, PG&E-2, Chapter 2, p. 2-28, included as Attachment 6)

12 It is clear from PG&E’s testimony in its AMI application that it understood it
13 would need to process large amounts of hourly residential interval data. Indeed,
14 the business case was developed based on an assumption that 15.5% of
15 customers (or approximately 775,000 customers) would participate on a
16 voluntary dynamic pricing tariff.¹⁶ It was these “demand response” benefits due
17 to price (i.e. bill) impacts that made the business case cost effective. It is
18 incredulous that PG&E would now argue that it had not planned on actually
19 using the interval data to bill many customers. The requirements have not
20 changed since that application, regardless of any direction the CPUC has taken
21 regarding dynamic pricing, and; neither the CPUC nor any other entity is
22 proposing to collect anything other than hourly residential interval data for
23 billing purposes. Thus, the costs for collecting hourly interval data for 5 million
24 electric meters was accounted for and forecast by PG&E in its original AMI
25 application, was funded and authorized by the CPUC, and the Commission
26 should now reject PG&E’s entire \$19.22 million funding request in MWC IS for
27 these additional 188 FTEs and the 4 business analysts. Finally, TURN directs the
28 Commission to the testimony of its witness Gayatri M. Schilberg in this
29 proceeding who addresses PG&E’s request to fund an information technology

¹⁶ D.06-07-027, p. 43 and 46.

1 (IT) program¹⁷ that is supposed to avoid a portion of the manual processing of
2 pre-billed interval data. In that testimony, Ms. Schilberg analyzes PG&E's
3 request for this IT program and provides a detailed criticism of PG&E's claimed
4 need concerning pre-billing exceptions processing.

5 **B. Customer Inquiry Assistance (Chapter 2)**

6 *1. Improved Service Level*

7 PG&E's testimony states it began a program to increase customer satisfaction by
8 improving its average speed of answer (ASA) for incoming calls and reducing the rate of
9 call abandonment.¹⁸ PG&E implemented this program after its consultant, the Boston
10 Consulting Group (BCG), had found that it was tracking below utility 2010 average
11 benchmarks for these measures. While PG&E improved its ASA to 59 seconds in 2011, it
12 planned to further improve the ASA to 28 seconds by 2014!¹⁹ PG&E calculated that it
13 would have to hire an additional 68 CSRs, at a cost of \$5.9 million, to achieve the 80%/28
14 goal by 2014.²⁰ PG&E's workpapers inconsistently report when these additional 68
15 customer service representatives (CSR) will be hired.²¹

16 The Commission should reject PG&E's request for an additional \$5.9 million in its
17 entirety. TURN has reviewed the Division of Ratepayer Advocates' (DRA) testimony
18 and supports its analysis and recommendations.²² We add to the discussion one
19 additional fact that strongly warrants rejecting PG&E's request. PG&E admits, indeed it
20 boasts, that it has already achieved its 80%/28 goal. Incremental funding is thus
21 unnecessary.

¹⁷ Ms. Schilberg provides her recommendations concerning PG&E's proposed "Interval Data Processing and Exceptions Management" IT program (PG&E-5, p. 9-9 through 9-10) as well as PG&E's proposal to manually process interval data in general.

¹⁸ PG&E-5, p. 2-7

¹⁹ More specifically, the 2011 level of 59 seconds (i.e., 80%/59) means that it takes, on average, 59 seconds for 80% of the calls to reach a CSR. PG&E's 2014 goal is for an average of 28 seconds before 80% of the customers reach a CSR (80%/28).

²⁰ PG&E-5, WP 2-29.

²¹ PG&E-5, WP 2-27 shows all \$5.9 million spent in 2014 while WP 2-10 reports 22% of that spent in 2012 and 2013 (\$556,000 in 2012, \$779,000 in 2013, and the remaining \$4.6 million in 2014).

²² DRA-13, Customer Care, pp. 18-20.

1 PG&E’s web site includes a public relations portal called “PG&E Currents” that
2 provides PG&E’s “perspective” on news and current events. In an article dated
3 November 15, 2012(Attachment 2) and titled “Grace Under Pressure: Contact Center
4 Employees Handle Thousand of Customer Calls 24/7”, PG&E explains that it had
5 achieved its intended 80%/28 goal.²³

6 “PG&E answers about 80 percent of calls within 20 seconds – part of an
7 80/20 “service level target”.

8 Based on both DRA’s findings concerning average speed of handles, as well as PG&E’s
9 admission that it has achieved these goals with current staffing levels, TURN concludes
10 that PG&E does not need the 68 additional CSRs. TURN recommends complete
11 disallowance of this incremental funding request.

12 Despite strong evidence to deny the whole request, TURN does provide an alternative.
13 If the Commission finds that there was a possibility that it took some increment of CSRs
14 to achieve the ASA goal which PG&E had reached by November 2012, the most that can
15 be provided would be PG&E’s 2012 forecast of incremental expense associated with
16 ASA service level improvements, or \$556,000.²⁴

17 **2. Large Increases for the Customer Advocacy Team Are Unnecessary**

18 In 2011 PG&E created its “Customer Advocacy Team” (CAT), a specially trained subset
19 of CSRs tasked with resolving the more complex and sensitive customer communication
20 issues. The purpose of this team is to improve customer satisfaction by addressing
21 customer issues that require a longer resolution time and resolving them more quickly
22 so as to avoid having these issues evolve into a formal complaint. ²⁵ PG&E piloted and
23 funded this program with 11 customer service representatives in 2011. PG&E did not
24 forecast, nor request funds for, this team in its 2011 general rate case. In this proceeding,
25 PG&E requests \$1.770 million to add 19 additional CSRs and one supervisor by 2014
26 The Commission should reject PG&E’s request as excessive and unnecessary.

²³ “Grace Under Pressure” from PG&E Currents (November 15, 2012) included as Attachment 7.

²⁴ PG&E-5, WP 2-10 and 2-11.

²⁵ PG&E-5, Chapter 2, p. 2-10.

1 PG&E explains that since it formed the CAT, the team has intervened in 896 cases and
2 resolved 93%, or 833 of those intervention cases, leaving only 63 outstanding. With only
3 88, or 7% of its intervention cases unresolved, it now wants to hire 19 incremental
4 CSRs.²⁶ This simply makes no sense. PG&E is saying that 11 CSRs can handle 833 cases
5 presumably over a single year),²⁷ or roughly 76 cases per CSR. Now with 63 intervention
6 cases outstanding PG&E wants to hire 19 CSRs that would equate to handling 1,444
7 intervention cases. PG&E's proposal to hire 19 CSRs to handle the remaining 7% of
8 unresolved intervention cases is unnecessary.²⁸

9 PG&E also claims it needs to expand the team to contact a customers who were not
10 "referred cases" but who rated their CSR experience as "less than 2" in a post call
11 survey, in an attempt to convince these customer to have a more positive attitude
12 towards PG&E. While this may, or may not placate unhappy customers, it is not clear
13 that this function benefits PG&E's ratepayers in general as much as it helps PG&E's
14 corporate image.

15 PG&E has not provided adequate justification for its incremental costs for the Customer
16 Advocacy Team. Therefore, the Commission should reduce PG&E's 2014 expense
17 forecast by \$1.770 million.

18 ***3. Non-Recurring and One-Time Customer Inquiry Assistance Costs in the Base Year***
19 ***Should Be Removed from the Test Year 2014***

20 Any one time costs that occur in test year 2011 should be removed from 2014 costs
21 because they will not occur in 2014. The costs for PG&E CSRs to handle customer
22 inquiry calls in 2011 associated with SmartMeter Deployment should be removed from
23 the base year. PG&E's SmartMeter deployment will finally be completed by 2014 and
24 PG&E will no longer incur those costs.²⁹ In addition, these costs should not be a part of

²⁶ PG&E-5, WP 2-24 and 2-25.

²⁷ TURN assumes these cases were all handled in a single year because PG&E developed the CAT beginning in 2011 and the base year costs are based on 2011 recorded costs.

²⁸ Also, the Commission should note that PG&E's forecast of CAT savings from reduced "repeat calls" is forecast for 2012 and 2013 when the CAT is staffed by the current number of 11 CSRs.

²⁹ PG&E-5, Chapter 10, pp. 10-1 and 10-2.

1 base rates because PG&E SmartMeter- deployment-related calls were funded in A. 05-
2 06-028.³⁰

3 In discovery, PG&E provided average speed of answer (ASA) statistics from its
4 customer inquiry department for 2007-2011. Those statistics broke out the number of
5 calls and CSR labor hours that are funded by non-GRC funding (i.e., energy efficiency,
6 SmartMeter, etc.).³¹ PG&E's response identified a number of CSR-handled calls that
7 were funded outside of the GRC process. Four topics were covered by those calls: a)
8 peak day pricing, b) SmartMeter deployment in Kern County, c) Community Choice
9 Aggregation, and d) SmartMeter deployment issues other than deployment in Kern
10 County.³²

11 The level of costs resulting from the SmartMeter related calls booked to the 2011 base
12 year were material, while the number of calls handled for PDP and the Kern County
13 deployment were not. PG&E fielded 281,910 calls related to SmartMeters during 2011,
14 but only fielded 2,262 calls related to the Kern County deployment and a mere 187 calls
15 related to PDP during 2011.³³ PG&E's workpapers indicate that the average cost for
16 CSR-handled calls in 2011 was \$8.76/call (PG&E-5, WP 2-15, nominal \$). Multiplying
17 this by the 281,910 SmartMeter related calls that were funded outside of the GRC in 2011
18 but imputed to the base year for purposes of PG&E's 2014 forecast equates to
19 approximately \$2.47 million in 2011. These costs should not be used to calculate test year
20 2014 costs because a) they are non-recurring and b) are funded through non-GRC
21 funding authorizations. Therefore, the Commission should reduce 2014 customer
22 inquiry assistance costs by \$2.47 million.

³⁰ Dec. 06-07-027. PG&E was authorized \$32.3 million (Table 1) in customer-contact related costs. That table assumed that the costs would cover the deployment period that the CPUC assumed would end in 2011. PG&E says it will not complete AMI deployment until 2014 (PG&E5, p. 10-1 and 10-2.

³¹ DRA #125.Q9, Attachment to Supplemental Response, included as Attachment 8

³² PG&E classifies these costs as non-GRC funded SmartMeter calls, indicating that they are SmartMeter deployment related calls.

³³ DRA #125.Q9, Attachment to Supplemental Response, included as Attachment 8.

1 **4. Peak Time Rebate Costs Are Best Addressed in A.10-02-028**

2 PG&E requests an additional \$4.6 million for customer contact center costs associated
3 with peak time rebate (PTR) events in 2014.³⁴ PG&E forecasts that 1% of all eligible PTR
4 customers will call PG&E after a PTR event to inquire about that event. PG&E admits
5 that it has also requested this funding in the pending PTR proceeding (A. 10-02-028), but
6 that this is just a placeholder in the event the Commission does not decide that case in a
7 timely manner.

8 "PG&E will not double-recover these ongoing PTR costs. If there is a
9 delay in the implementation of PTR from the currently proposed
10 2013/2014 implementation schedule, PG&E would remove these PTR
11 costs from the GRC and request funding for them in the PTR case. If there
12 is no delay, PG&E would remove them from the PTR filing and leave the
13 funding request in the GRC" (PG&E-5, p. 2-15, fn #3).

14 TURN agrees with PG&E that the utility should not double recover these costs.
15 However, TURN does not agree with PG&E's proposed method to prevent double
16 recovery. The best method of ensuring these costs are not "double recovered" is not to
17 "double request" them in multiple proceedings. There is no rationale for requesting
18 those costs here, since they will become real only if the Commission approves a PTR
19 default tariff in A.10-02-028. PG&E's proposal increases regulatory inefficiencies and
20 leads to the possibility of double recovery.. The Commission should consider the
21 appropriate funding for PTR-related customer contact center costs in the same
22 proceeding in which a record has been developed on that issue, as well as related issues
23 about the PTR program, which is A.10-02-028. The requested \$4.6 million should be
24 denied.

25 **5. Incremental Real Estate, Training, and Supervision Costs Associated with**
26 **Additional Customer Service Representatives**

27 PG&E has also requested additional costs for corporate real estate, supervision, and
28 training specifically tied to its proposed increased staffing levels. TURN's primary
29 recommendation for a) improved service levels (68 CSRs) and b) the customer advocacy
30 team (19 CSRs and 1 Supervisor) results in a total of 87 less CSRs and a supervisor (88
31 total FTE additions). We used this figure to reduce corporate real estate, supervisor, and
32 training costs accordingly.

³⁴ PG&E-5, Chapter 2, pp. 2-14 through 2-15

1 PG&E assumes 14.5 supervisors per CSR³⁵ which translates to a reduction of 6
2 supervisors at an average cost of \$109,861 per supervisor. (PG&E-5, WP 2-33). This
3 lowers PG&E's proposed supervisor costs for CIA in 2014 by \$659,000.

4 If TURN's suggested adjustments to PG&E's CIA staffing levels is adopted by the
5 Commission, PG&E will experience lower costs for NOT training an incremental 87
6 CSRs. PG&E calculates its incremental annual training costs per CSR at 1,440 minutes
7 times \$1.08 per minute or \$1,555.20 per CSR.³⁶ Eliminating incremental training for 87
8 CSRs in the test year will lower PG&E's training costs by \$135,302 in 2014.

9 In addition to a reduction in supervision and training costs, PG&E should see a
10 reduction in the need for increased space in the Sacramento and Fresno Customer
11 Contact Centers it forecasts for 2014. PG&E forecasts that it will need an additional \$15.5
12 million in capital and \$1.2 million in expense to provide working space for an additional
13 135 CSRs in 2014.³⁷ That results in \$114,776 in capital and \$9,021 in expense per new
14 CSR. Thus, reducing that headcount by 88 further reduces PG&E's capital and expense
15 request for corporate real estate costs by \$10.1 million and \$793,843 respectively in 2014.

16 **C. Meter to Cash—Chapter 4**

17 *1. Energy Data Services*

18 PG&E's Energy Data Services (EDS) is responsible for retrieving electric and gas interval
19 meter data for large commercial, industrial, and agricultural customers, via telephony
20 based metering.³⁸ PG&E reads approximately 20,000 gas and electric meters daily,
21 performs usage analysis and quality assurance processes and provides that data for its
22 billing department for calculating and sending customer bills as well as its load research
23 group.³⁹ The current costs for reading EDS customer meters is booked to PG&E's

³⁵ PG&E-5, WP 2-10

³⁶ PG&E-5, WP 2-30 through 2-32

³⁷ PG&E-5, WP 2-48

³⁸ Telecommunications methods include hardwire phone lines, digital, cellular, and paging networks and field retrieval of interval data.

³⁹ PG&E-5, Chapter 4, p. 4-8

1 current meter reading balancing account⁴⁰ that is intended to close at the end of 2013. At
2 that time, PG&E will then begin to book meter reading costs, including these EDS costs,
3 to general rates beginning in 2014.

4 PG&E claims that it never intended on converting EDS customers to its SmartMeter
5 system and that the Commission understood this; thus, legitimizing its proposal to book
6 \$3.2 million (reduced in PG&E Response to TURN #26.Q17, included as Attachment 5,
7 from original request of \$3.8 million)⁴¹ to general rates.

8 “SmartMeter was not envisioned to provide certain metering capabilities,
9 such as electronic correction for pressure and temperature influences
10 required for large volume gas customers, and four-quadrant
11 measurement for electric customers with cogeneration and power factor
12 adjustments. EDS will continue to utilize this metering technology until
13 integration with or replacement by SmartMeter technology is feasible.”
14 (PG&E-5, pp. 4-8 and 4-9)

15 PG&E’s current claim that it’s SmartMeter infrastructure was never envisioned to serve
16 customers served by the EDS group is untrue, at least for the vast majority of meters
17 served by the EDS group, the 19,967 MV-90 electric meters. PG&E may have come to this
18 realization since its original application (A. 05-06-028) for approval of its advanced
19 metering infrastructure (AMI), but that is not what the PG&E presented to the
20 Commission in that proceeding and it is not what the Commission accepted in
21 approving PG&E’s AMI project.

22 In its AMI application (A. 05-06-028), PG&E presented a business case analysis to the
23 Commission that claimed AMI would provide ratepayers with an annual savings of
24 \$6.452 million per year from the EDS group beginning in the 3rd year of the deployment.

25 PG&E stated that

26 “In order to limit any adverse impact on ABS-billed accounts associated
27 with the AMIO Project’s initial deployment, PG&E expects to wait until at

⁴⁰ As part of the settlement in PG&E’s 2011 GRC, PG&E booked all recorded 2011-2013 meter reading costs to this balancing account rather than to general rates. The EDS meter reading costs were also included within this balancing account.

⁴¹ PG&E explains in Attachment 5, “Chapter 4 includes a forecast for \$3.8 million to perform this meter-reading function. [Please note that, in response to Data Request DRA_151-07, PG&E has reduced this forecast to \$3.2 million and will include this change in a future errata.]”

1 least Year 3 of deployment before converting the ABS-billed accounts to
2 the mass market system, since these accounts are generally the largest
3 and most complex. At that time, PG&E expects all new billing processes
4 to be in place, system interfaces to function smoothly and all unforeseen
5 variables to be identified and resolved. Accordingly, the savings
6 associated with interval metering and billing are expected to be realized
7 beginning in Year 3 of deployment.⁴²

8 .

9 PG&E has identified that \$2.711 million of the \$6.452 million identified in Table 5-1⁴³ is
10 savings from converting interval metered customers to its SmartMeter system are
11 associated with meter reading and the remaining savings are related to billing
12 functions.⁴⁴ Thus, counter to PG&E's claim in this general rate case PG&E did forecast
13 meter reading and billing savings from converting interval customers to its SmartMeter
14 system in A. 05-06-028.

15 The Commission should note that PG&E attempted to integrate these EDS customer-
16 meters into its SmartMeter infrastructure in 2010, but failed because of resistance from
17 its interval metered customers.

18 Second, and more important, customers whose meters were part of a pilot
19 project to convert the MV-90 meters to SmartMeters were dissatisfied
20 with the experience. In January 2010, PG&E began to convert the MV-90
21 meters and found that the locations and configurations of these
22 specialized meters required a significant amount of disruptive on-site
23 construction work to enable the meters to connect to the SmartMeter
24 communication network. As a result, in late 2010, PG&E decided that it
25 would keep the remaining MV-90 meters in place unless a customer with
26 an MV-90 meter requested a SmartMeter. At this time, PG&E does not
27 plan to convert the remaining MV-90 meters to SmartMeters except in
28 response to such customer requests."(PG&E Response to TURN #26.Q17,
29 included as Attachment 5)

30 PG&E always envisioned converting these customers to its advanced metering
31 infrastructure (AMI), but when it made this attempt its larger customers said they didn't
32 like it. PG&E's reaction was to agree with its customers, turn a promised savings into a

⁴² A. 05-06-028, PG&E-3, Chapter 5, pp. 5-1 through 5-4 included as Attachment 9.

⁴³ Table 5-1 reports its costs and benefits in 2005 dollars.

⁴⁴ Response to TURN #26.Q17 included as Attachment 10.

1 cost, and burden its remaining customers with what is essentially the large customers'
2 SmartMeter Opt out costs.

3 When residential customers requested to opt out of PG&E's AMI project, the
4 Commission and interested parties expended considerable resources analyzing and
5 litigating costs that would eventually turn into fees to be paid by the participants. But
6 PG&E has decided on its own to socialize (ie charge all ratepayers) the costs for a large
7 customer to opt out of the system. The Commission should not allow such
8 discriminatory treatment between residential and non-residential customers.

9 In sum, PG&E has reduced its SmartMeter Deployment costs by not deploying
10 SmartMeters to the large customers that are served by PG&E's Energy Data Services
11 Group (EDS). They saved those costs, not through efficiencies, but by inappropriately
12 and unilaterally deciding to reduce the scope of their deployment. .

13 Therefore, the Commission should reject PG&E's proposal and reduce 2014 meter to
14 cash expenses by the portion of \$3.2 million associated with reading the MV-90 meters.
15 If the Commission does authorize this cost, it should instruct PG&E to treat it as a direct
16 cost that would be allocated to the proper non-residential customer classes in the Phase
17 2 of this rate case.

18 ***2. Increased Field Disconnect/Reconnect Transactions for SmartMeter Opt Out***
19 ***Customers***

20 PG&E requests an additional \$2.118 million in test year 2014 to fund an increased
21 number of manual disconnects of electric service from customers signing up for its
22 SmartMeter Opt Out Program (SMOOP). Under this scenario, PG&E is unable to use the
23 SmartMeter to remotely disconnect electric service and must send a field service
24 technician to manually disconnect and/or reconnect service. TURN does not disagree
25 that opt out customers will cause a need for manual disconnect and reconnects, but
26 PG&E's forecast of SMOOP customers is highly inflated and inconsistent with both
27 recorded subscription levels and its position in its SMOOP proceeding (A. 11-03-014).

1 PG&E based its request for \$2.118 million in disconnect/reconnect on a forecast of
2 200,600 SMOOP customer meters.⁴⁵ PG&E assumes that 4.50% of those meters (10,533)
3 will cause the need for a manual disconnect and 79% of those meters customers (8,342)
4 will then require a field reconnect. PG&E then multiplied those two figures by its unit
5 cost forecast--\$101.82/unit per field disconnection and \$125.35 per field reconnection.⁴⁶

6

7 As discussed in Section A (concerning meter reading costs) above, PG&E's forecast of
8 opt-out participation is wildly inconsistent with actual participation rates, and totally at
9 odds with PG&E's own forecast in the Opt-Out proceeding. For all the reasons discussed
10 above, TURN recommends a more realistic forecast of 40,000 opt-out participants.

11 Thus, starting with 40,000 customers and using PG&E's other assumptions in WP 4-17
12 results in an increase of 1,800 disconnections from SMOOP customers. Assuming that
13 79.2% of disconnection customers will require a reconnect (1,426 SMOOP customers)
14 and multiplying these two figures by PG&E's assumed unit costs results in a total cost of
15 \$361,975 for the increased volume of disconnect/reconnects that will occur in 2014. The
16 Commission should reduce PG&E's request for MWC IT by \$1.756 million.

17 **3. Revenues from SmartMeter Opt Out Fees**

18 PG&E's general rate case application has forecast tens of millions of dollars in serving
19 the additional (meter reading, field service, etc.) needs of SMOOP customers.

20 Unfortunately, it is unclear whether PG&E included the revenue offsets that would
21 result from SMOOP fees. TURN admits that PG&E has identified offsetting revenues
22 from SMOOP fees in its testimony⁴⁷ That table identifies a total of \$20.713 million in
23 electric and gas revenues from opt out customer charges. That figure is consistent with
24 PG&E's forecast of 200,600 customers. TURN is concerned however that PG&E did not
25 include these costs in its forecast of other operating revenues which may get lost in the
26 shuffle and not be included in PG&E's calculation of final revenue requirements.

27 PG&E's Table 10-2 (PG&E-5) does not reference PG&E-2, Chapter 17 (Other Operational

⁴⁵ PG&E-5, WP 4-17

⁴⁶ PG&E-5, WP 4-17

⁴⁷ PG&E-5, Chapter 10, Table 10-2.

1 Revenues) but only references PG&E-2, Chapter 18. Neither Chapter 18, nor its
2 supporting workpapers, provides sufficient detail to understand whether PG&E
3 included the offsetting revenues from SMOOP fees or not. Normally, these types of
4 offsetting revenues would have been contained in the Other Operating Revenues (OOR)
5 exhibit, but PG&E does not reference that exhibit (PG&E-2, Chapter 17) and there is no
6 mention in that chapter's testimony or supporting workpapers of revenue from SMOOP
7 fees.

8 TURN has reviewed the SMOOP fee revenues contained in PG&E-5, Chapter 10 (Table
9 5-2) and believe they are consistent with PG&E's inflated SMOOP customer forecast.
10 However, TURN believes that the number of SMOOP customers will be significantly
11 lower (40,000 customers versus 200,600 customers) and TURN has approximated the
12 revenue from SMOOP fees for its lower customer forecast, using all of PG&E's other
13 assumptions. That figure is \$4.128 million and is based only on the currently adopted
14 interim monthly fees (\$5/month for CARE and \$10/month for non-CARE customers). If
15 the Commission adopts TURN's lower forecast of customer participation, it should also
16 adopt its lower forecast of revenues from SMOOP fees.

17 Regardless of the level of fees, the important point is that the Commission must ensure
18 that any and all fees recovered from opt out customers are used to offset the costs of
19 serving opt out customers and not pocketed by the utility's shareholders. The
20 Commission should direct PG&E to demonstrate that it has properly included offsetting
21 revenues from SMOOP fees in its results of operation model and that those offsetting
22 fees are based on the same SMOOP customer participation rates used to calculate
23 incremental costs.

24 ***4. Customer Risk Analysis Software***

25 PG&E reports that it will purchase a customer risk analysis software application in 2012
26 for a cost of \$300,000.⁴⁸ That software enables one to draw on historical financial
27 performance information for customers and provides models and other risk assessment
28 tools. In a data request TURN asked whether PG&E had purchased that software in 2012
29 as it claimed it had in its testimony. In its response to that request PG&E explained that

⁴⁸ PG&E-5, Chapter 4, p. 4-33 and WP 4-12

1 it had not purchased the Customer Risk Analysis software in 2012 and was still
2 considering whether it would purchase the software in 2013.⁴⁹

3 PG&E has not made the necessary showing demonstrating that a) this purchase is
4 necessary or b) it will actually occur. Given that PG&E has not purchased the software
5 as it claimed it would in testimony, the Commission should reduce 2014 expenses
6 accordingly and reduce the test year expense forecast for MWC IT by \$300,000.

7 **5. Revenue Assurance Protection**

8 PG&E claims the need for 13 additional FTEs in its revenue assurance (RA) division at
9 an incremental cost of \$1.3 million (PG&E-5, p. 4-28). PG&E claims that deployment of
10 SmartMeters has changed the method that individuals have used to accomplish energy
11 theft which increases the need for PG&E to hire additional RA field staff. PG&E also
12 states that a “segment of RA work now involves providing assistance to law
13 enforcement involved with code enforcement and energy tampering and theft associated
14 with other illegal activities,” but provides no information about the percentage of RA
15 work devoted to assisting law enforcement or when this assistance commenced.⁵⁰ The
16 Commission should reject PG&E’s request for 13 additional field RA personnel because
17 PG&E has not provided the needed proof that they are necessary to meet its
18 investigative case load levels.

19 In response to a TURN data request PG&E provided recorded information for 2008-2012
20 concerning the number of potential theft cases investigated, the number that were
21 confirmed, the quantity of retroactive billings associated with confirmed theft cases and
22 the amount of penalty money collected for those cases.⁵¹ The data show that in 2008
23 PG&E investigated 7,583 cases and confirmed tampering in 3,329 of those cases. In 2012,
24 PG&E investigated only 3,667 cases and confirmed tampering in 1,304 of those cases.
25 While PG&E’s response also indicates that the number of RA cases generated by
26 SmartMeter operation increased over this same time period (consistent with the increase
27 in number of SmartMeters), the data indicates that the total number of potential theft

⁴⁹ TURN #26.Q5, included as Attachment 13

⁵⁰ PG&E-5, p. 4-28

⁵¹ TURN #26.Q16.d, included as Attachment 14

1 cases investigated by RA is diminishing, not increasing. This is consistent with PG&E’s
2 original forecast that SmartMeters would provide a benefit by reducing meter theft.⁵²

3 Without any quantitative demonstration of the “increase in work volumes” alleged by
4 PG&E in support of its request,⁵³ it is unclear why an additional \$1.3 million for revenue
5 assurance personnel is needed at this time. The Commission should reduce PG&E’s
6 2014 expense forecast for MWC IU accordingly.

7 **6. Capital**

8 PG&E requests \$9.011 million in capital and \$1.5 million in expense in 2014 to move two
9 meter to cash (MTC) departments to new leased facilities in the Stockton area (PG&E,
10 WP 4-43). PG&E claims it needs to move these departments to new facilities to
11 accommodate the new hires it forecasts for the Billing and Credit operations
12 departments. In particular, PG&E forecasts it will have to expand these facilities to
13 accommodate 141 additional FTEs in the Billing department as well as an additional 10
14 FTEs in the Credit Operations department.

15 The Commission should reject this funding request in its entirety because it is based on
16 accepting PG&E’s forecast of new hires for these departments. As previously discussed,
17 TURN opposes PG&E’s proposal to hire an additional 188 FTEs to manually analyze
18 pre-billing interval data. Thus, PG&E is actually in a position of having 37 freed-up
19 workspaces (188 minus 141) to accommodate any other additional hires. The
20 Commission should therefore reduce PG&E’s capital request in 2014 by \$9.011 and its
21 expense forecast by \$1.5 million.

22 **D. Metering— Chapter 5**

23 **1. Meter Maintenance**

24 PG&E forecasts that its gas meter (SmartMeter modules) maintenance expenses will
25 increase by \$1.23 million and electric meter maintenance will increase by \$6.395 million
26 in 2014. PG&E claims the factor is the result of an increased number of gas modules
27 deployed as well as an increased number of gas modules that can be remediated rather

⁵² A. 05-06-028, PG&E-3, p. 3-3 and 3-4 included as Attachment 15.

⁵³ PG&E-5, p. 4-28

1 than replaced. PG&E also increased its average fix time per unit to incorporate an
2 average of an additional 5 minutes per unit, because it is encouraging its field
3 technicians to provide additional customer outreach and answer any customer inquiries
4 on site.⁵⁴

5 TURN adjusts these figures using the meter maintenance costs that PG&E provided in
6 its original AMI filing (A. 05-06-028) and its AMI upgrade filing (A. 07-12-009), escalated
7 to test year dollars. In both of those proceedings, PG&E claimed that gas and electric
8 meter maintenance for its advanced meter infrastructure would cost significantly less
9 than what it now claims. In its original AMI filing in 2005, PG&E claimed it would only
10 cost \$37.91/field visit to maintain and fix a gas meter module.⁵⁵ In this proceeding
11 PG&E claims that it will cost \$112/to fix that same gas meter module.⁵⁶

12 PG&E's AMI Upgrade Proceeding (A. 07-12-009) is the best source for including the
13 dollars per unit maintenance costs for electric meters since the upgrade reflects the
14 current electric meter technology. In that proceeding, PG&E claimed that it would cost
15 \$85/unit, escalated by 3.3% per year, to maintain and fix a solid state electric meter.⁵⁷ In
16 comparison, PG&E now claims it will take 1.4 hours to maintain an electric meter at a
17 cost of \$182/hour – or \$255/unit. TURN recommends that as a matter of fairness the
18 Commission hold PG&E to its word and adopt the maintenance costs PG&E had
19 promised earlier. Indeed, the Commission authorized the original AMI and the AMI
20 upgrade funding based on a promise that these projects had some level of operational
21 cost-effectiveness. That level of cost-effectiveness has already been seriously reduced by
22 PG&E's inability to complete the project. Commission should not allow further
23 degradation of that promised cost-effectiveness by allowing PG&E to keep diluting
24 operational savings while increasing previously promised AMI costs.

25 PG&E's original AMI application did not mention adjusting its gas meter maintenance
26 (\$37.91 in 2005 \$) costs for inflation. TURN, to be conservative in its 2014 forecast, has

⁵⁴ PG&E-5, WP 5-31

⁵⁵ A. 05-06-028, PG&E-3, Chapter 3, pp. 3-5 and 3-6, included as Attachment 16

⁵⁶ PG&E-5, WP 5-31

⁵⁷ A. 07-12-009, PG&E-3, p. 3-5 and 3-6, included as Attachment 17

1 escalated those 2005 dollars to 2014 nominal dollars using PG&E's proposed 3.3%
2 escalation rate from A. 07-12-009.⁵⁸ The result reduces PG&E's overall request for
3 SmartMeter maintenance relative to 2011 recorded costs, from an increase of \$7.622
4 million (PG&E-5, WP 5-31) to an increase of only \$2.792 million. The Commission should
5 reduce PG&E's 2014 expense forecast by \$4.80 million.

6 **III. Shared Services Corporate Real Estate Costs**

7 In this section TURN recommends adjustments to PG&E's forecasts of costs for
8 corporate real estate investments. We discuss PG&E's corporate real estate (CRE)
9 investments undertaken by this department as explained in the utility's shared services
10 exhibit.⁵⁹ TURN also presents funding recommendations for CRE facilities that appear
11 outside of the shared services testimony (such as in the exhibits for PG&E's gas
12 distribution, electric distribution and other departments).⁶⁰

13 In this application PG&E forecasts significant capital investment in real estate projects
14 both for a) shared service projects and b) facilities for specific operating departments.
15 PG&E requests \$81.602 million in capital and \$32.590 million in expense for 2014 projects
16 discussed in its shared services exhibit,⁶¹ while it requests \$170.09 million in capital and
17 \$9.99 million in expense for facilities devoted to a specific PG&E department (i.e., gas
18 distribution, electric distribution, etc.).⁶²

19 PG&E's real estate costs are systematically over-inflated, in large part because they are
20 based on unreasonable unit cost assumptions. PG&E generally used a consistent set of
21 unit costs assumptions and built the forecast of each project's cost estimate on a

⁵⁸ TURN believes that 3.3% year inflation since 2005 is inflated relative to recorded inflation. However, to be conservative TURN uses the same escalation levels proposed by PG&E in its AMI testimonies.

⁵⁹ PG&E-7, Chapter 6

⁶⁰ The exhibit for gas distribution contains its own chapter for real estate investments because PG&E forecasts fairly large investments in real estate for its gas departments. See PG&E-Exhibit 3, Chapter 12

⁶¹ PG&E-7, Chapter 6, Tables 6-40 and 6-41

⁶² TURN #47. Attachment to Q1 included as Attachment 18. This response lists all projects greater than \$1.0 million that are not contained in PG&E-7.

1 “bottoms up” basis. PG&E’s basic method of estimating costs using a consistent set of
2 unit costs is not unreasonable in theory. However, the unit costs themselves need to be
3 reduced, which produces a corresponding reduction to PG&E’s forecasts. For instance,
4 PG&E used a figure of \$560 per square foot as the basis of its costs for building office
5 space. This figure is over twice the national average price of building a brand new
6 medical office building, the most expensive office building to construct according to RS
7 Means, the nationally recognized cost estimating company⁶³

8

9 PG&E used unit cost estimates it obtained from its real estate contractor, Cushman and
10 Wakefield (C&W). The unit costs estimates provided by C&W are quite high relative to
11 other cost estimates readily available from other estimating sources, and the reasons for
12 the high level of the estimates are inadequately documented or explained. There also
13 appears to be an inherent conflict of financial interest in using C&W unit costs estimates
14 because C&W receives a five percent “project management” share of all of PG&E’s
15 capital investments, as shown in PG&E workpapers.⁶⁴ Thus, the higher the cost estimate
16 provided by C&W to PG&E, the higher the cost forecast of project management fees
17 paid to C&W.

18 In addition to high unit costs, for each proposed project PG&E applies cost adders for
19 program management, engineering and testing, and other overhead costs that are also
20 highly inflated relative to its recorded costs for these same overheads. For instance,
21 PG&E applies 10% to 15% engineering and testing cost adders to a large number of
22 projects despite the fact that the 2009-2012 recorded engineering and testing costs
23 amounted to only 1.4% of all capital investments.

24 Using more reasonable unit costs and overhead adder estimates, TURN adjusted
25 PG&E’s a) bas building and b) seismic building upgrades on a macro. In evaluating
26 PG&E’s real estate “solutions” projects, TURN generally made its generic cost
27 adjustments for each individual project with no recommendations on the reasonableness
28 of the project. However, TURN found a handful of these “solutions” projects to be ill-

⁶³ PG&E-7, Chapter 6, p. 6-5.

⁶⁴ PG&E-7, WP 6-649

1 planned and unreasonable. TURN's primary recommendation is authorization of zero
2 funding for these programs. However, TURN also provides the Commission with an
3 alternative funding recommendation, in the event the Commission does not agree with
4 TURN's primary recommendation.

5 Finally, TURN analyzed and evaluated the proposed real estate projects for individual
6 operating departments, most of which had to do with PG&E's proposed real estate
7 projects for its gas department. For many of the projects, TURN only adjusted the cost
8 forecast using its more reasonable unit cost assumptions. For some projects, like the new
9 San Ramon Gas Headquarters at the Bishop Ranch facility, TURN allocated the costs to
10 transmission and distribution functions to reflect the functions of the personnel housed
11 in those facilities. In a handful of cases, we recommend zero project-funding because the
12 project is ill-planned and unreasonable (i.e. Gas Control Center Hot Back-up Project).⁶⁵

13 **A. Corporate Real Estate Projects From PG&E's Shared Services Exhibit (PG&E-7,**
14 **Chapter 6)**

15 ***1. The Commission Should Reject PG&E's Excessive Cost Adders for Project***
16 ***Management and Engineering/Inspection/Testing Costs***

17 In this section, TURN discusses the project management and
18 engineering/inspection/testing cost adders PG&E applies to real estate cost estimates.
19 TURN strongly opposes PG&E's proposed cost adders as excessive and not comparable
20 to its recorded costs for these functions. PG&E assumed engineering would add 10% to
21 15% of jobs (where applied), and project management would add an additional 10% to
22 project costs.

23 PG&E's cost adders are based on "judgment" by PG&E personnel and not on recorded
24 costs. In response to discovery, PG&E provided 2009-2012⁶⁶ recorded data on its facility
25 costs, broken out into direct construction costs, PG&E construction labor, PG&E
26 engineering/testing/inspections, and PG&E and contractor project management costs.
27 TURN calculated those recorded cost adders and presents the

⁶⁵ PG&E-3, Chapter 12, WP 12-33 to 12-35.

⁶⁶⁶ TURN #34.Q1Attachment, included as Attachment 19.

1 engineering/testing/inspection and project management adders in the following Table
 2 2.

3 **Table 3: Proposed and Recorded Cost Adders**

Cost Adders	2014 GRC	Recorded 2009-2012
PG&E/Vendor Project Management	10.00%	1.70%
Engineering/Testing/Inspect	10% to 15%	1.40%

4
 5 As the table indicates, PG&E’s forecast of cost adders is significantly greater than its
 6 recorded cost for the activities covered by such adders. PG&E recorded
 7 engineering/testing/inspection costs constituted only 1.4% of its capital investments,
 8 while it requests 10% to 15% cost adders in this application. Recorded project
 9 management costs, in their entirety, are only 1.7% of the average total project costs.
 10 PG&E assumes all project costs will require a 5% increase for PG&E project management
 11 as well as an additional 5% increase for contractor management.

12 The first project contained in PG&E’s request for Base Building expenditures shows how
 13 PG&E’s generic cost adjuster is unnecessary. PG&E’s “Exterior Water Proofing for 77
 14 Beale Street” project entails removing existing caulk between the exterior granite panels
 15 of the building, and re-caulking those panels.⁶⁷ The contractor provided a cost estimate
 16 of \$2.038 million to complete the job, and PG&E then adds an additional \$203,861 adder
 17 to engineer, test, and inspect the re-caulking of a building. It’s hard to believe that PG&E
 18 is going to need close to a quarter million dollars to engineer and inspect a simple (albeit
 19 large) re-caulking job. PG&E has presented no evidence that would substantiate its
 20 assumption that it will incur costs at that level. The Commission should reject this
 21 inflated cost adder and instead use PG&E’s recorded cost adder of 1.4%.

22 PG&E’s Base and Seismic Building program costs also include a total adder of 10%
 23 adder for project management costs—5% for PG&E and 5% for the contractor. This again
 24 is simply unreasonable in the face of the recorded total project management costs (PG&E
 25 and contractors’) over 2009-2012, which amounted to \$2.354 million for \$135.272 million
 26 in direct construction costs or only 1.7% of total construction.

⁶⁷ PG&E-7, WP 6-284

1 The Commission should also reject PG&E’s assumption that every base and seismic
 2 building project needs both a project manager from PG&E and a project manager from
 3 the contractor. Indeed, many of the cost estimates already include engineering and
 4 project management costs in the original estimate provided to PG&E. For instance,
 5 PG&E’s estimate for its “Beale Street Exterior Waterproofing Project” is based on a
 6 contractor estimate that already includes a 10% adder for “general conditions”.⁶⁸
 7 “General conditions” captures the contractor’s overhead costs that include engineering
 8 and construction management.⁶⁹ Thus it seems that PG&E’s 10% adder for engineering
 9 and project management costs is both too high and would double count costs that are
 10 subsumed in the underlying project estimate.

11 The Commission should reject PG&E’s request for engineering and project management
 12 costs based on its proposed adders. Instead, it should adopt
 13 engineering/testing/inspection and program management cost adders based on
 14 PG&E’s 2009-2012 recorded costs and only apply those overheads to PG&E’s cost
 15 estimates.

16 TURN adjusted PG&E’s forecast of a) base building and b) seismic building project costs
 17 using recorded overhead adders.

18 **Table 4:**
 19 **TURN Adjustment to Base and Seismic Building Costs (Nominal \$)**

PG&E Cost Total Base and Seismic Cost	\$ 10,798,634 10,798,634
PG&E Project Management Project Management	\$ 10,254,421 10,254,421
PG&E Engineer/test/inspect Engineer/test/inspect	\$ 10,178,911 10,178,911
TURN Project Management Project Management	\$ 1,706,261 1,706,261
TURN Engineer/test/inspect Engineer/test/inspect	\$ 1,422,221 1,422,221
Project Management Reduction Project Management Reduction	\$ 0,514,160 0,514,160
Engineer/test/inspect Reduction Engineer/test/inspect Reduction	\$ 8,788,691 8,788,691
Total Reduction Total Reduction	\$ 18,267,851 18,267,851
TURN Recommended Base and Seismic TURN Recommended Base and Seismic	\$ 10,530,783 10,530,783
Percent Reduction to Base Building Percent Reduction to Base Building	15% 15%

20

⁶⁸ PG&E-7, WP 6-285

⁶⁹ See Attachment 20 from Reed Construction. That attachment provides the standard definition of the cost components contained in General Conditions [Requirements].

1 As shown in that table, PG&E forecasts total capital expenditures of approximately
2 \$124.0 million in capital spending (2014-2016) for its base (\$99.47 million) and seismic
3 (\$20.6 million) building programs. Of that amount PG&E requests project management
4 costs of \$11.254 million and engineering costs of \$10.176 million. In comparison, TURN
5 has calculated total project management costs of \$1.74 million and \$1.42 million for total
6 engineering costs. Thus, TURN reduced PG&E's forecast of project management and
7 engineering costs by \$18.1268 million for a total base and seismic building cost estimate
8 of \$105.5 million – or a 15% total cost reduction to these programs. This 15% reduction
9 should be applied to each year's forecast of base and seismic building costs.

10 *2. Unit Costs That Form the Basis of PG&E's Facility Cost Request*

11 PG&E requests \$128.5 million in capital and \$5.119 million in expense for its proposed
12 "Real Estate Solutions" Program in 2014-2016. PG&E claims this program is necessary to
13 refurbish or replace office and service center buildings and to correct condition
14 deficiencies, improve functionality, implement workplace improvements, and meet
15 current business needs.⁷⁰

16 TURN provides its adjustments to PG&E's proposed "solutions" projects in this section.
17 TURN has done a detailed analysis of the vast majority of projects contained in this
18 exhibit and finds that PG&E has systematically inflated the unit costs it uses to estimate
19 its facility investments. PG&E uses close to 20 different unit costs that include tenant
20 improvement costs, information technology (IT) costs, moving costs, etc., to estimate on
21 a "bottom up" basis the forecast of investment costs for each individual facility project.

22 Some of the cost estimates were based on a **small sampling** of PG&E recorded data.⁷¹
23 Other unit costs were provided to PG&E by its real estate contractor and business
24 associate Cushman and Wakefield (C&W). The estimates provided by C&W to PG&E
25 were supported by little, and sometimes no, documentation. Most of the cost estimates
26 were provided to PG&E in spring of 2012. And each C&W estimate is clouded by the
27 financial stake C&W appears to have in the cost estimates.

⁷⁰ PG&E-7, Chapter 6, p. 6-66

⁷¹ Employee moving, IT, and furniture and fixture costs were estimated using this method.

1 One of the best examples of these inflated unit costs is the cost for an office building.
 2 PG&E assumes it will cost \$560 per square foot to build most all of its office buildings.⁷²
 3 In comparison, RS Means reports that the national average for constructing a single-
 4 story office using unionized labor was \$188 per square foot.⁷³ PG&E's proposed \$560 per
 5 square foot is simply not credible, absent some explanation of why the estimated cost is
 6 so high.

7 PG&E uses close to 20 different generic unit cost estimates to calculate its corporate real
 8 estate costs.⁷⁴ With few exceptions, these unit costs seem excessively high.

9 The following table reports the unit cost estimates used by both TURN and PG&E and
 10 provides the source of those estimates where available. TURN describes its proposed
 11 unit costs below.

12 **Table 5:**
 13 **PG&E versus TURN Unit Cost Estimates**

Cost Type	Unit	PG&E	TURN	TURN	Source
Construct New Office	\$/SF	\$ 560	\$ 188		RS Means
Construct Warehouse	\$/SF	\$ 200	\$ 83		RS Means
Construct Non-Office	\$/SF	\$ 200	\$ 66		Prorated
Information Technology (IT)	\$/SF	\$ 25			
Information Technology (IT)	\$/FTE			\$4,903	TURN
Construct Shop	\$/SF	\$ 200	\$ 83		RS Means
Tenant Improvement	\$/SF	\$ 125	\$ 42.7		Colliers
Tenant Improvement (Ops Building)	\$/SF	\$ 78	\$ 42.7		Colliers
Tenant Minor Improve	\$/SF	\$ 85	\$ 42.7		Colliers
Building Demolition	\$/SF	\$ 8	\$ 6.8		RS Means
Furniture	\$/SF	\$ 32.6	\$ 15		Turner Weisk
Furniture	\$/employee		\$ 300		Turner Weisk
Moving Costs	\$/employee	\$ 140	\$ 60		Turner Weisk
Paving Cost High	\$/SF	\$ 11	\$ 2.67		Building
Paving Cost Low	\$/SF	\$ 5.29	\$ 2.67		Building
(a) No comparable \$/sf for non-Office. Only one non-					
so TURN prorated using TURN office \$/PG&E office \$					

72 PG&E-7, WP 6-935

73 Attachment 21

74 PG&E-7, WP 6-890 through 6-964

1 *a. Discussion of Unit Costs*

2 **i. Construction of New Office Building**

3 As previously discussed TURN used a unit cost estimate of \$188 per square foot to
4 calculate office construction costs derived from RS Means. That estimate is a 2013
5 national US average cost for building a new single-story office building using seven
6 different varieties and combinations of building materials and techniques.⁷⁵ Each
7 combination included two cost estimates which were based on a) union labor costs and
8 b) non-union labor costs. TURN used the higher union labor cost estimate for its
9 adjustments for all of RS Means' estimates.

10 **ii. Warehouse Costs**

11 PG&E used \$200 per square foot to estimate warehouse construction costs.⁷⁶ TURN used
12 \$83 per square foot also derived from RS Means and is based on 11 different building
13 configurations and union labor costs.⁷⁷ PG&E shop facility cost estimates are also based
14 on its warehouse costs. RS Means data did not provide a specific breakout of shop
15 construction costs so TURN also used its warehouse unit costs to calculate shop
16 construction costs.

17 **iii. Information Technology (IT) Costs**

18 PG&E assumes \$25 per square foot for information technology costs (IT).⁷⁸ They are
19 based on recorded costs (\$4,993 per employee) for 7 different projects, some are recorded
20 and some are forecast.⁷⁹ PG&E corrected this figure to \$4,903 per employee in TURN
21 #47.Q11 and this is the figure that TURN uses.⁸⁰ PG&E converted its dollar per
22 employee costs to a "dollars per square foot" basis using a conversion factor of 200
23 square feet per employee.

⁷⁵ See Attachment 21

⁷⁶ PG&E-7, WP 6-946

⁷⁷ Attachment 22

⁷⁸ PG&E-7, WP 6-960

⁷⁹ TURN #47.Q11 included as Attachment 23

⁸⁰ In response to TURN #47.Q11, PG&E explained its proposed \$4,993 per employee IT cost was based on a calculation error. It provided the corrected figure of \$4903 per employee, which is the figure used by TURN. Although PG&E admitted it erred in its calculation, it claims its original and corrected values are so similar that they require no corrections.

1 TURN strongly opposes PG&E's conversion calculation, because it systematically
2 inflates IT costs for any facility for which there are more than 200 square feet per
3 employee. A good example is illustrated in PG&E's estimates for the Fresno Gas Load
4 Center Project.⁸¹ That project assumes that IT costs will be required for 15 employees
5 occupying 9,083 square feet. PG&E estimates total IT costs of \$257,617⁸² for this project
6 based on the square footage, a figure that translates into \$17,174 per employee in IT
7 costs, although PG&E claims it based its costs on \$4,993 per employee. If PG&E had
8 estimated total IT costs based on the forecasted FTEs, it would have come up with a
9 more reasonable estimate rather than one that suggests 50 FTEs in a facility that is
10 expected to house 15. The Commission should reject PG&E's method of calculating IT
11 costs.

12 **3. Tenant Improvement Costs**

13 PG&E used \$125 per square foot for office-related tenant improvements and \$85 per
14 square foot for minor tenant improvements.⁸³ PG&E also uses a unit cost of \$78 per
15 square foot for refurbishing operations buildings.⁸⁴

16 TURN used \$42.47 per square foot based on estimates provided by a Senior Vice
17 President with Colliers International the Commercial Real Estate Company.⁸⁵ That unit
18 cost was calculated as the average of the mid-range of tenant improvement cost
19 estimates for a Class A/B+ building. TURN used this figure to adjust all of PG&E's
20 proposed tenant improvement costs.

21 **4. Demolition Costs**

22 PG&E used \$8 per square foot to calculate its demolition costs.⁸⁶ That figure is based on
23 a cost estimate for a single project that includes hazardous materials abatement costs.

⁸¹ PG&E-7, WP 6-702 and 6-707

⁸² TURN notes that PG&E's estimate of costs for the Fresno Gas Load Center project are mathematically incorrect. Multiplying \$25 by 9083 square feet results in total IT costs of \$227,075. However, PG&E workpapers calculate IT costs for the same square footage at \$257,617 (PG&E-7, WP 6-707).

⁸³ PG&E-7, WP 6-916 and 6-926

⁸⁴ For PG&E-7, WP 6-667

⁸⁵ Attachment 24

⁸⁶ PG&E-7, WP 6-956

1 TURN used \$6.68 per square foot despite the fact that TURN has sources that show
2 demolition costs in the range of \$1.22 per square foot for demolition of a 1 to 3 story
3 office building in San Francisco.⁸⁷

4 **5. Furniture Costs**

5 PG&E uses \$32.66 per square foot to calculate its furniture costs. That estimate is based
6 on a unit cost of \$6,532 per employee converted to dollars per square feet using 200
7 square feet per employee.⁸⁸ PG&E's conversion of furniture costs to dollars per square
8 feet suffers from the same deficiency as does its IT costs (as earlier discussed).

9 TURN used a furniture cost of \$3,000 per employee taken from two web sites that
10 provide a calculator for office furniture.⁸⁹ Both sites provided furniture costs in the range
11 of \$3,000 to \$5,000 per employee. TURN used the low range of furniture costs because
12 we think it is imprudent to assume PG&E needs all new furniture every time it makes an
13 investment in real estate. We also apply it to PG&E's projects using a dollar per
14 employee adjustment, consistent with our proposed treatment of IT costs.

15 **6. Employee Moving Costs**

16 TURN also takes issue with PG&E's moving costs.⁹⁰ PG&E's estimate is based on two
17 moving projects that moved only 28 employees in total. One project averaged \$2,042 per
18 employee and the other averaged \$613 per employee. PG&E simply averaged the two
19 projects.

20 TURN used a web-based calculator provided by a company that specializes in providing
21 firms with commercial moving services.⁹¹ That estimator calculates moving costs at \$600
22 per employee.

23 **7. Paving Costs**

24 PG&E uses \$5.49 per square foot to estimate its paving costs.⁹² That figure is based on a
25 cost estimate provided by a contractor for a single project in Livermore, California. That

⁸⁷ Building Journal Cost Estimator included as Attachment 25

⁸⁸ PG&E-7, WP 6-961

⁸⁹ Estimates from Alfred Williams and R. Brandeisky included as Attachment 26.

⁹⁰ PG&E-7, WP 6-913

⁹¹ Provided at www/alfredwilliams.com, included here as Attachment 27

1 unit cost is a contractor estimate and is not based on recorded costs. TURN used a figure
2 of \$2.73 per square foot to calculate paving costs based on the BuildingJournal.com.
3 Those paving costs are calculated on a location specific basis and TURN used the most
4 comparable location which happened to be Oakland, California.⁹³

5 **8. TURN's Adjustments to PG&E's Proposed Real Estate Solutions Program**
6 PG&E'S Real Estate Solutions Program is made up of 23 different projects. Because of
7 the large number of projects, this testimony will not verbally describe each adjustment.
8 Instead, the results of applying TURN's adjustments described in the preceding sections
9 to each of the different projects are contained in Table 5.⁹⁴

⁹²) PG&E-7, WP 6-958

⁹³ Online cost calculator for paving costs in Oakland, California. Attachment 28

⁹⁴ Table 5 does not contain TURN's recommendations for the Fairfield Data Center Redundant Power Feed Project (PG&E-7, WP 6-870). TURN did not adjust the costs down, but did allocate a portion of those costs to transmission according to the equipment PG&E's states it is installing. TURN's recommendations are provided in the following section.

1
2

**Table 6:
TURN's Recommended Funding for CRE's Solutions ('000 Nominal \$)**

Project	PG&E		TURN		TURN Reduction	
	Capital	Expense	Capital	Expense	Capital	Expense
Bakersfield Office	\$ 83,300	\$ 57,000	\$ 83,300	\$ 57,000	\$ 0	\$ 0
Chico Office	\$ 83,800	\$ 59,300	\$ 81,500	\$ 60,000	\$ 2,300	\$ 1,300
Fresno Office	\$ 84,100	\$ 68,700	\$ 81,700	\$ 65,000	\$ 2,400	\$ 3,700
Merced Office	\$ 82,200	\$ 63,000	\$ 81,900	\$ 66,000	\$ 300	\$ 4,700
Rocklin Office	\$ 81,000	\$ 64,000	\$ 81,300	\$ 67,000	\$ 600	\$ 2,700
San Luis Obispo Office	\$ 83,500	\$ 68,000	\$ 81,200	\$ 62,000	\$ 2,300	\$ 1,000
Exit San Ramon		\$ 8,200	\$ 0	\$ 6,000	\$ 8,200	\$ 2,200
Rebuild Antioch SC	\$ 88,700	\$ 64,200	\$ 82,700	\$ 66,000	\$ 6,000	\$ 8,200
Rebuild Auburn SC	\$ 86,820	\$ 67,000	\$ 85,000	\$ 69,000	\$ 1,820	\$ 7,000
Edenvale SC	\$ 86,300	\$ 68,000	\$ 81,300	\$ 63,000	\$ 5,000	\$ 9,300
Rebuild Fresno Gas Center	\$ 7,000	\$ 6,100	\$ 7,000	\$ 6,800	\$ 0	\$ 300
Rebuild Livermore SC	\$ 80,870	\$ 69,000	\$ 81,700	\$ 67,000	\$ 3,170	\$ 5,200
Rebuild Modesto SC	\$ 84,600	\$ 69,700	\$ 81,400	\$ 69,000	\$ 1,200	\$ 5,800
Rebuild Napa SC	\$ 81,900	\$ 68,400	\$ 81,400	\$ 67,000	\$ 500	\$ 7,000
Rebuild San Luis Obispo	\$ 85,100	\$ 65,000	\$ 83,000	\$ 65,000	\$ 2,100	\$ 7,000
Rebuild Ukiah SC	\$ 85,300	\$ 69,000	\$ 81,000	\$ 65,000	\$ 4,300	\$ 4,000
Relocate Quincy	\$ 86,100	\$ 65,000	\$ 86,100	\$ 65,000	\$ 0	\$ 5,000
Relocate Quincy SC (a)	\$ 86,100	\$ 65,000	\$ 82,500	\$ 65,000	\$ 3,600	\$ 5,000
Relocate Clearlake SC	\$ 86,300	\$ 69,200	\$ 86,300	\$ 69,200	\$ 0	\$ 2,000
Relocate Clearlake SC (a)	\$ 86,300	\$ 69,200	\$ 82,000	\$ 67,000	\$ 4,300	\$ 4,500
Relocate Walnut Creek SC	\$ 82,300	\$ 64,400	\$ 86,100	\$ 65,000	\$ 1,200	\$ 4,400
Refurbish 7 floors 77	\$ 82,000	\$ 65,300	\$ 83,500	\$ 63,000	\$ 1,500	\$ 2,300
Rebuild 16th floor 77	\$ 82,000	\$ 0	\$ 81,200	\$ 0	\$ 800	\$ 0
Restore 3rd Floor 77	\$ 82,600	\$ 66,000	\$ 81,100	\$ 66,000	\$ 1,500	\$ 9,000
<i>(a) TURN's Alternate Recommendation</i>						
Totals						
TURN Primary	\$ 1,285,539	\$ 501,900	\$ 1,311,223	\$ 2,285,539	\$ 84,439	\$ 2,887,0
TURN Alternate	\$ 1,285,539	\$ 501,900	\$ 1,365,448	\$ 2,288,700	\$ 79,114	\$ 2,885,0
Percentage Reduction	Capital		Expense			
Primary		75%		60%		
Alternative		71%		59%		

3

4 As Table 5 shows, PG&E expects to spend \$1286 million in capital and \$5.119 million in
 5 expense (2014-2016) to fund its real estate “solutions” projects. TURN finds that PG&E’s
 6 cost estimates are systematically inflated and instead primarily recommends reducing
 7 that cost estimate by \$84.4 million in capital and \$2.937 million in expense. Our primary
 8 recommendations include zero funding for the Quincy Service Center Relocation and
 9 the Clearlake Service Center Relocation (discussed below). If the Commission does not

1 reject these two projects outright, the Commission should then reduce PG&E’s proposed
2 capital spending \$79.1 million and its expense forecast by the same \$2.9 million, which
3 reflect reduced (but not zero) funding for the two relocation projects.

4 Because these projects are planned for the 2014-2016 period, it is more efficient and
5 easier for the Commission to adjust PG&E’s forecast downward by the percentages
6 provided here, which means 75% reduction to annual capital forecasts and a 60%
7 reduction to all expense forecasts for the CRE Solutions Projects. In the alternative, if the
8 Commission does not fund the Quincy and Clearlake service center relocations at zero,
9 the Commission should adjust PG&E’s capital forecast downward by 71% and expense
10 reduction of 60%.

11 ***9. The Bakersfield Office Project***

12 PG&E’s request for investing in its Bakersfield Office are contained under multiply real
13 estate programs. Under the base building program, PG&E requests \$1.22 million in
14 capital to install an elevator in 2016.⁹⁵ Under its seismic building program PG&E
15 requests \$1.950 million of expense in 2016.⁹⁶ Finally, under its “solutions” building
16 program, PG&E requests \$3.331 million in capital (2015) and \$570,000 in expense (2015-
17 2016).⁹⁷ The total request amounts to \$5.41 million in capital and \$2.827 mm in expense
18 (2013-2016).

19 The Commission should reject all forecasts of costs for the Bakersfield facility because
20 PG&E has already completed its modernization of this facility. Any funding authorized
21 for this project should be limited to its recorded costs for 2010-2012.

22 The architect and engineering firm Teter AE explains that it completed all work on the
23 26,300 square foot Bakersfield office on its web site.⁹⁸

24 “Modernization of PG&E’s Bakersfield Service Center Operations and
25 Construction Buildings include; seismic upgrades, ADA improvements,
26 and interior workplace enhancements. PG&E’s workplace was renovated

⁹⁵ PG&E-7, WP 6-328

⁹⁶ PG&E-7, WP 6-511

⁹⁷ PG&E-7, WP 6-582

⁹⁸ <http://teterae.com/projects/energy/pge-bakersfield-renovation/> included as Attachment 29.

1 while their critical operations continued throughout the construction
2 period.”

3 PG&E also provided information explaining it completed this project, but only through
4 discovery. It spent \$3.532 million from 2010-2012 and completed the project.⁹⁹ PG&E
5 spent \$812,000 in 2010, \$2.765 million in 2011, and \$46,000 in 2012. The costs recorded in
6 2010 are accounted for in 2011 general rates and the 2011 recorded costs should be
7 booked to construction work in progress (CWIP) for that year. For 2012, the Commission
8 should adjust PG&E’s recorded capital costs upward by \$46,000. The Commission
9 should reject all other costs requested by PG&E for this project.

10 The recorded costs for the Bakersfield Office provide a valuable insight into the actual
11 costs it takes to manage a project and engineer and test a project. Those costs are a mere
12 fraction of the costs PG&E claims it needs to manage and engineer a real estate project.

13 PG&E claims it would cost \$288,295 (CRE solutions), \$92,686 (base building), and
14 \$152,226 (seismic building) to manage the Bakersfield office work. In total this amounts
15 to \$533,207.¹⁰⁰ In contrast, the actual costs for managing all of these projects amounted
16 to a mere \$27,000.¹⁰¹

17 PG&E also forecast that the Bakersfield office seismic project would cost 15% of that
18 project’s capital cost— or \$198,555. In comparison, engineering for all aspects of the
19 Bakersfield project was only \$5,000— 0.14% of total project costs.

20 These very substantial differences between forecast costs and recorded costs are not
21 limited to the Bakersfield project, but are systematically littered throughout the CRE-
22 related projects in PG&E’s application.

23 ***10. Relocate Canyon Dam and Quincy Service Centers***

24 PG&E proposes to consolidate the operations located at the Canyon Dam Service Center
25 and at the Quincy Service Center and relocate them to a new location in Greenville.¹⁰²

26 PG&E proposes to purchase and site-prepare 5 acres and construct a 5,000 square foot

⁹⁹ TURN #34.Q1 Attachment included as Attachment 19..

¹⁰⁰ PG&E-7, WPs 6-328, 6-510, 6-580

¹⁰¹ Attachment 19

¹⁰² PG&E-7, WP 6-774

1 building, separated into 500 square feet of office space and 4,500 square feet of non-
2 office space. PG&E requests \$6.165 million in capital and \$55,000 in expense for 2015 and
3 2016. The Commission should reject this project in its entirety. PG&E’s justification for
4 this project is based on a mischaracterization of customer growth in Plumas County and
5 will most likely lower customer service levels, if completed.

6 PG&E proposes a \$6.165 million project that relocates 11 employees—an average cost of
7 \$563,395 per employee. While a dollar per employee is not the only measure of
8 reasonableness, in this case it certainly highlights the need for some serious justification.
9 PG&E’s testimony does not provide that justification.

10 Instead, PG&E provides the following justification,

11 “...customer growth in Plumas County has occurred away from the
12 service centers. As a result, the Canyon Dam and Quincy service centers
13 are not in the best locations to support current operations and customers.
14 Additionally, both service centers are small, old, underutilized and in
15 need of maintenance.” (PG&E-7, WP 6-774)

16 PG&E’s claim that customer growth in Plumas County justifies the need to pull out of
17 Quincy seems to be a stretch, to put it nicely. Plumas County has had a stable
18 population of 20,000 for over a decade.¹⁰³ The US Census Bureau recorded a population
19 of 20,824 in 2000 and 20,122 in 2009. The Bureau’s estimate for population in Plumas
20 2012 is 19,399 which is a further shrinking of the population from the 2010 estimated
21 population level of 20,007. ¹⁰⁴

22 There is also no justification for the size of the project. The vast bulk of project costs
23 (\$3.574 million) are for site preparation for a 5 acre site. PG&E has not explained why it
24 needs such a large facility or so much land.

25 Finally, while PG&E’s customers in Greenville may welcome a new service center,
26 PG&E’s customers in Quincy will now have to drive 22 miles to Greenville and Canyon
27 Dam customers will have to travel over 9 miles to reach a PG&E service center.

¹⁰³ <http://california.hometownlocator.com/census/>

¹⁰⁴ <http://quickfacts.census.gov/qfd/states/06/06063.html>

1 PG&E has not provided an adequate justification for either the scope of the project nor
2 the project itself. The Commission should reject it in its entirety. However, if the
3 Commission does not reject this project, it should adopt TURN's alternative cost
4 adjustments contained in Table 5.

5 ***11. Relocate Clearlake and Lakeport Service Centers***

6 Similar to the previous project, PG&E proposes to consolidate operations at its Clearlake
7 Highlands Service and the Lakeport Service Center into a single leased facility in
8 downtown Clearlake.¹⁰⁵ In addition, PG&E intends to develop another 5 acre site that
9 includes site preparation and grading costs of \$3.45 million out of a total project cost of
10 \$6.4 million.

11 PG&E's justification for this project is not sufficient for increasing ratepayer costs by \$6.4
12 million.

13 "The Clearlake and Lakeport service centers are located on opposite ends
14 of Lake Clearlake. Both service centers are underutilized."¹⁰⁶

15 The service centers have always been located on opposite sides of Lake Clearlake, which
16 by no small coincidence, just happens to be where the Clearlake's population has been.
17 Thus, PG&E's solution would ensure that its customers in Lakeport have to drive to the
18 other side of the lake. It is hard to see how such a change could constitute an
19 improvement in customer service.

20 In addition, PG&E's "resolution" for dealing with underutilized service centers is to
21 spend unreasonable amounts of ratepayer funds building an even larger facility that has
22 no justification by PG&E. There is no mention of the need for an expanded yard for
23 operations or construction.

24 The Commission should reject PG&E's funding request for this project, because it is ill-
25 conceived and imprudent. In the event the Commission does not reject this project, it
26 should limit funding to TURN's proposed costs for this project contained in Table 5.

¹⁰⁵ Reference to a "downtown" Clearlake is a bit of a misnomer on PG&E's part.

¹⁰⁶ PG&E-7, WP 6-777

1 **12. Relocate Walnut Creek Service Center to Concord Service**

2 PG&E proposes to consolidate operations currently located at the Walnut Creek Service
3 Center to the Concord Service Center. The project includes restacking the office space at
4 the Concord facility to accommodate 8 additional employees. PG&E forecasts \$237,000
5 in capital and \$44,000 in expense in 2014 to complete this project. TURN recommends
6 zero funding for this project. TURN does not oppose this project but believes it should
7 be funded with the cost savings resulting from abandoning the Walnut Creek facility.

8 PG&E forecasts that it will avoid \$228,000 in 2014 when it shuts down the Walnut Creek
9 Facility.¹⁰⁷ This covers all but \$53,000 of PG&E's proposed moving costs for 2014.

10 PG&E's forecasted costs for this project are excessive; based on a reasonable cost
11 forecast, PG&E should be able to easily fund this project through its cost savings
12 forecast. For instance, using TURN's unit cost for tenant improvements (\$42.47 per
13 square foot vs. PG&E-proposed \$85 per square foot reduces construction costs by
14 \$84,825, more than enough to fund the net costs of \$53,000. Cost savings from using a
15 more realistic assumption for project management and IT costs would lower PG&E's
16 proposed relocation costs even further.

17 In sum, the Commission should authorize zero funding for the Walnut Creek Service
18 Center relocation project, because the project can be funded through the cost savings of
19 abandoning the Walnut Creek facility. Indeed, the Commission should view this type of
20 project as one that actually deserves the classification of a real estate "solution" because
21 it has the potential to lower ratepayer costs.

22 **13. Fairfield Data Center Redundant Power Feed**

23 PG&E proposes to install a redundant 12 kV power feed to the data center to ensure
24 there is a source of uninterrupted power. PG&E projects a cost of \$6.601 million to
25 complete the project. TURN does not have an opinion on the reasonableness of the
26 project. However, this project entails some transmission-related costs that should not be
27 included in this general rate case, because they are FERC-jurisdictional costs.

¹⁰⁷ PG&E-7, WP 6-782

1 PG&E forecasts distribution costs of \$2.3 million (distribution), \$600,000 (transmission),
2 and \$2.220 million (substation) for the project.¹⁰⁸ TURN prorated this percentage to
3 allocate the substation and all other related costs to distribution and transmission. The
4 result of this calculation is to allocate \$1.52 million of the \$6.601 million to transmission
5 and the remaining \$5.081 million to distribution. The Commission should reduce
6 PG&E's request for this project by \$1.52 million.

7 **B. Corporate Real Estate Projects Not Contained in the Shared Service Exhibit**
8 **(PG&E-7)**

9 All told PG&E forecasts it will invest over \$446.7 million in capital (2012-2016), \$170.1
10 million of that in test year 2014, and almost \$10.0 million in expense in 2014 in real estate
11 facilities used directly by specific PG&E divisions, such as gas and electric distribution,
12 energy supply, customer care, etc.¹⁰⁹ TURN provides its recommendations for these
13 projects in the following sections.

14 **1. San Ramon Consolidated Gas Headquarters**

15 PG&E intends on relocating employees and contractors from various Walnut Creek and
16 San Francisco buildings into a single 250,000 square foot building in San Ramon. This
17 project will involve the following tasks.

- 18 • Execute a lease for ten years for a single property,
- 19 • Relocate 700 employees predominantly from the Walnut Creek facilities
- 20 • Relocate 100 employees from the General Office,
- 21 • Provide full IT functionality,
- 22 • Close out existing Shadelands leases properties,
- 23 • Vacate PG&E-owned property at North Wiget Lane

24 PG&E forecasts that it will spend \$16.3 million (2012) and \$9.4 million (2013) in capital to
25 complete this project in 2013. It also forecasts \$958,000 in expense for both of these years
26 (\$1.916 million in expense total) and an additional \$5.14 million in rent in 2014.¹¹⁰ PG&E

¹⁰⁸ PG&E-7, WP 6-870

¹⁰⁹ TURN #47 Attachment to Q1, included with this testimony as Attachment 18.

¹¹⁰ PG&E-3, Chapter 12, WP 12-22 and 12-24

1 allocates the costs of future rent on a 60% capital/40% expense split. PG&E also books
2 all of these costs to gas distribution.

3 TURN adjusts PG&E's cost forecast to reflect PG&E's recorded costs and also allocates
4 these between gas distribution and gas transmission functions.

5 PG&E's cost forecast is significantly greater than its recorded cost for this project. PG&E
6 forecast it would spend \$16.3 million in capital in 2012 and it only spent \$9.4 million in
7 2012.¹¹¹ PGE& recorded non-rent expenses of \$1.26 million in 2012 and forecasts an
8 additional \$757, 000 in non-rent expenses for 2013.

9 TURN proposes that PG&E's 2013 capital forecast for this project be prorated by 2012
10 recorded capital costs divided by 2012 forecast capital costs. That adjusts PG&E's 2013
11 capital cost forecast down to \$3.975 from PG&E's proposed \$6.908 million.

12 TURN opposes PG&E's proposal to charge all of these costs to its gas distribution
13 customers because the personnel that will be operating out of this facility are (and will
14 be) chiefly working on gas transmission projects. Therefore, the capital costs and
15 ongoing rent costs should be booked between gas distribution and gas transmission
16 functions in direct proportion to the percentage of employees split between transmission
17 and distribution.

18 PG&E reports that it will house from 835 to 856 employees in the new gas
19 headquarters.¹¹² PG&E currently has 648 employees housed at the facility, with 518 of
20 those FTEs dedicated to gas transmission operations and 130 FTEs dedicated to
21 distribution activities. This alone could justify an 80%/20% transmission to distribution
22 cost split. However, TURN used a more conservative assumption that the remaining
23 number of spaces to be filled (208 FTEs based on full capacity at 856 employees) will be
24 evenly split between distribution and transmission functions—leaving a total of 622
25 transmission-related employees and 234 distribution-related employees—resulting in a
26 73%/27% transmission to distribution allocation percentage.

¹¹¹ TURN #47.Q12 – full response and attachments included here as Attachment 30.

¹¹² PG&E-3, WP 12-23 reports the facility will house 835 employees while TURN #47.Q12 (Attachment 30) reports that the facility will house 856 employees. The current number according to PG&E is 648 employees.

1 Using this percentage, TURN allocated the San Ramon recorded capital and forecast
2 expenses to transmission and distribution functions. TURN recommends only booking
3 \$2.580 million of its recorded 2012 capital costs to gas distribution and \$1.086 million in
4 adjusted forecast 2013 capital costs to distribution.

5 For test year 2014, PG&E forecasts net rental costs in 2014 of \$5.144 million—calculated
6 as net savings of \$2.129 million applied to a gross rent of \$7.273 million.¹¹³ In discovery
7 PG&E lowered the gross rental figure to \$6.973 million which is the figure TURN used to
8 adjust PG&E's test year lease costs. TURN netted out the \$2.129 million in lease savings
9 from PG&E the new gross rental figure of \$6.973 million (net rent of \$4.844 million). We
10 then took that figure and allocated 73% to transmission and 27% to distribution—\$3.52
11 million to transmission and \$1.324 million to distribution. That net gas distribution
12 related rent was then split between capital and expense using PG&E's proposed
13 60%/40% split.

14 That results in net rent expenses to gas distribution customers of approximately \$530,000
15 in 2014 and \$795,000 in 2014 capital. The Commission should adopt these figures and
16 reduce PG&E's 2014 capital request by \$2.292 million and its expense forecast by \$1.528
17 million in 2014 for renting the San Ramon Gas Headquarters.

18 ***2. San Ramon Fifth Floor Gas Control Dispatch Costs***

19 PG&E proposes to build a new gas control/dispatch center on the fifth floor of its San
20 Ramon Bishop Creek Gas Headquarters. PG&E plans on renovating the fifth floor of an
21 existing building to accommodate the control dispatch center. PG&E originally forecast
22 a total cost of \$41.682 million (\$38.52 million in capital and \$3.162 million in expense) in
23 2012 and 2013. In response to a TURN data request, PG&E corrected some calculation
24 errors involving double counting and reduced its initial capital cost forecast from
25 \$38.519 million to \$26.319 million. PG&E adjusted both figures upward by a 15%
26 contingency factor for a total capital cost of \$30.267 million.¹¹⁴ PG&E proposes to allocate
27 \$21.103 million of that capital to gas distribution and \$9.164 million to gas transmission.

¹¹³ PG&E-3, WP 12-24

¹¹⁴ TURN #47.Q13. Attachments 1 and 2 included as Attachment 31

1 PG&E's gas dispatch project is exceedingly expensive. Even with the correction just
2 described, the utility is requesting that ratepayers pay over \$605 per square foot in
3 capital and \$63.25 per square foot in expense. This is unreasonable, given that this is not
4 a new construction cost but rather a tenant improvement to an existing facility. As
5 discussed earlier, PG&E uses a \$560 per square foot construction estimate for building a
6 new building. As previously discussed, the most expensive building to construct in the
7 U.S. is a medical office building, and the 2013 national average construction cost¹¹⁵ that
8 is only \$239 per square foot (for entirely new construction).

9 The Commission cannot find reasonable estimates that are based on building or
10 renovation costs that are close to \$670 per square foot. Instead, TURN used a
11 construction cost of \$250 per square foot which is a slight increase to the national
12 average for constructing medical office space. This reduces PG&E's capital forecast from
13 \$30.267 million to \$12.5 million. TURN also eliminates PG&E's proposed 15%
14 contingency factor because the Commission has ruled it is unreasonable to apply
15 contingencies to preliminary cost estimates.¹¹⁶

16 TURN then allocates those capital costs to transmission and distribution functions in the
17 same manner that it allocated the costs for the other four floors of the San Ramon
18 building (73% transmission and 27% distribution). This allocates \$9.125 million of capital
19 for this project to gas transmission rates and the remaining \$3.375 million to gas
20 distribution. The Commission should lower PG&E's gas distribution capital request by
21 \$17.728 million.

22 ***3. Gas Control Hot Backup Facility***

23 This project will create a mirror image facility that backs up PG&E's new gas control and
24 dispatch center. The proposed back-up facility will be 75% of the size of the San Ramon
25 facility and will have redundant power and fiber feeds into the facility. PG&E plans on
26 spending \$33.70 million in capital (2014-2016) and \$292,000 in expenses. PG&E claims

¹¹⁵ RS Means National Average Costs for a Medical Office Building included as Attachment 32.

¹¹⁶ Dec. 09-03-025, p. 247.

1 this project will allow it to conduct gas network monitoring and control operation in the
2 event that a major disaster knocks out its new gas dispatch control center.¹¹⁷

3 The Commission should summarily reject this project because it is the result of
4 imprudent planning and unreasonable cost estimates. First PG&E wants tens of millions
5 of dollars to consolidate its gas dispatch and control into a single facility. PG&E wants
6 its primary gas control dispatch headquarters so it can reduce the lag between data
7 collection and manual intervention response in the field.¹¹⁸ PG&E has not provided any
8 evidence that a centralized control dispatch center will reduce this lag between event
9 notification and response. However, for purposes of this discussion, TURN takes it on
10 faith that PG&E is partially or wholly correct.

11 However, PG&E's claim that it now needs an entire duplicative, mirror image back-up
12 facility is without merit or precedent. PG&E should have done some type of analysis to
13 establish a) there is a reasonable chance this redundant multi-million project will add to
14 safety and reliability and b) PG&E couldn't find another less expensive back-up strategy
15 than this project. PG&E did not provide any such analysis, and it should not burden
16 ratepayers with the additional inflated cost of a back-up facility without proving the
17 need for such a facility.

18 As stated, PG&E explained it needed a back-up gas control center to maintain control in
19 the event that a major disaster knocks its primary gas control center off-line. In response
20 to a discovery request, PG&E provided a list identifying two specific risks that could
21 affect the fifth floor dispatch center at San Ramon— a) earthquakes and b) a Petroleum
22 Transmission Pipeline located near the San Ramon Bishop Ranch facility.¹¹⁹

23 First, PG&E made a specific and expensive decision to relocate its entire gas headquarter
24 to the San Ramon. Somewhere along the line PG&E discovered that its new centralized
25 gas headquarters was located near a petroleum transmission pipeline. PG&E had the
26 resources to identify this pipeline before it relocated this facility, but apparently it either

¹¹⁷ PG&E-3, WP 12-33 to 12-35

¹¹⁸ PG&E-3, WP 12-27

¹¹⁹ TURN #39.Q3a included as Attachment 33

1 didn't investigate or did not care that it was locating its new centralized gas
2 headquarters close to this potential risk.

3 While that is bad planning in itself, the situation is even worse, because the San Ramon
4 facility is located very close to the Hayward seismic fault line. Thus, if the earthquake
5 doesn't damage the facility (more about this later) the earthquake's effect on the major
6 petroleum transmission pipeline could.

7 However, the situation with PG&E's gas headquarters building keeps getting worse,
8 because PG&E decided to forego investment in seismic upgrades to the San Ramon Gas
9 Headquarters. Its original plans for renovating and preparing the San Ramon facility to
10 become the new control dispatch center (as well as overall gas headquarters) included
11 \$4.0 million in seismic upgrade work, that should mitigate some of the risk from
12 potential earthquakes in San Ramon's active seismic area. Amazingly, PG&E made a
13 conscious decision not to install seismic upgrades to this facility.

14 "Attachment to TURN #47.Q12 Attachment 1 reflects lower total
15 projected expenses than forecast in Exhibit (PG&E-3), Chapter 12, on page
16 WP 12-24 **because PG&E does not plan to perform the \$4 million**
17 **building seismic upgrade work included in the forecast.**" (emphasis
18 added)

19 This is imprudent and irresponsible planning. The San Ramon facility and the nearby
20 petroleum transmission pipeline are both located on the Hayward seismic fault line.
21 These two factors double the risk that a seismic event could damage the new Gas
22 Headquarters. Put simply, if the earthquake doesn't get the Bishop Creek facility, the
23 earthquake's effect on the petroleum transmission pipeline certainly could.

24 It is astonishing that PG&E chose to forgo the forecast seismic upgrades for a new
25 centralized facility that has such risks. That would have been the prudent strategy.
26 Instead, PG&E's strategy seems to be to forego \$4.0 million in seismic upgrade work, so
27 it can add close to \$34 million in capital to its rate base for a redundant back-up facility.
28 It is interesting to note that the Bishop Creek Gas Headquarters was not forecast in
29 PG&E's 2011 general rate case. This means that the investment of \$4.0 million in expense
30 for the seismic upgrades would have negatively affected shareholder earnings.

1 Therefore, the Commission should reject this project’s cost in its entirety and reduce
2 PG&E’s capital cost estimate by \$3.334 million (2014), \$13.493 million (2015) and \$16.829
3 million (2016). PG&E’s future expense forecasts for 2015 and 2016 should also be lowered
4 by \$146,000 in each of those years.

5 **4. Gas Training Center**

6 PG&E proposes to spend \$59.2 million in capital and \$2.30 million in expense to build a
7 new 30-acre gas training facility. PG&E claims it needs to provide “best in class” training
8 for its gas workforce to ensure its gas safety and reliability goals are met.¹²⁰ PG&E
9 proposes to book the entire \$59.2 million to gas distribution rates.

10 TURN provides a number of cost adjustments to PG&E’s inflated unit costs and
11 proposes a more appropriate allocation of facility costs between gas transmission and
12 distribution rates.

13 PG&E claims that it will cost over \$676 per square foot to build this facility with \$52.3
14 million of that spent on soft and hard costs of construction.¹²¹ PG&E then adjusts that
15 figure upward by a 15% contingency factor, or an additional \$7.201 million.

16 First, the Commission should summarily reject PG&E’s proposed 15% contingency
17 factor. It has already found applying a large contingency factor like this on top of a
18 “rough order of magnitude” cost estimate is unreasonable.¹²²

19 The Commission should also reduce PG&E’s proposed construction cost estimates of
20 \$676 per square foot. Instead, to be conservative TURN suggests using the national
21 average unit costs for constructing a new medical office building—\$240 per square foot.
22 TURN has used this figure to adjust the costs downward based on the assumption of
23 building an 88,000 square foot building.

24 In addition, TURN allocates the costs of the proposed training center to transmission
25 and distribution functions in the same manner as it allocated the costs of the entire San

¹²⁰ PG&E-3, WP 12-38 through 12-44

¹²¹ Ibid.

¹²² PG&E’s workpapers (PG&E-3, WP 12-39) actually describes the cost estimate for its gas training center as a ROM estimate.

1 Ramon Gas Headquarters, discussed above—73% to transmission and 27% of those costs
 2 to distribution. The following table reports TURN’s proposed costs for the training
 3 facility based on construction costs of \$240 per square foot and TURN’s proposed
 4 allocation to transmission and distribution functions.

5 As shown in Table 6, TURN’s adjustments to both construction cost forecasts and
 6 allocation between transmission and distribution functions results in a large cost
 7 decrease to gas distribution rates, relative to PG&E’s proposal. The Commission should
 8 only book \$5.482 million in capital to distribution rates and \$220,000 in expense over
 9 2012-2015. The year by year cost reductions are shown at the bottom of Table 6.

10
 11

**Table 7:
 TURN Adjustment to PG&E’s Gas Training Facility Costs ('000 nom \$)**

PG&E	2012	2013	2014	2015	Total
Capital	\$ 25,000	\$ 29,300	\$ 30,800	\$ 37,700	\$ 122,800
Expense		\$ 1,000	\$ 1,300		\$ 2,300
					\$ 59,900
TURN					
Capital	\$ 89,000	\$ 33,300	\$ 34,500	\$ 33,900	\$ 190,700
Expense		\$ 350	\$ 460		\$ 810
Total					\$ 21,020
Allocate Capital					
Transmission (73%)	\$ 65,000	\$ 24,400	\$ 25,300	\$ 24,700	\$ 139,400
Distribution (27%)	\$ 24,000	\$ 8,900	\$ 9,200	\$ 9,200	\$ 51,300
Allocate Expense					
Transmission (73%)	\$ 250	\$ 330	\$ 330	\$ 330	\$ 1,240
Distribution (27%)	\$ 0	\$ 20	\$ 130	\$ 0	\$ 150
Reduce Distribution					
Capital	\$ 22,000	\$ 8,400	\$ 9,900	\$ 10,000	\$ 50,300
Expense	\$ 0	\$ 900	\$ 1,000	\$ 0	\$ 1,900

12

5. Roseville Service Center

14 PG&E requests \$21.965 million in capital and \$2.196 million in expense in 2015 to build a
 15 new service center in the Roseville area. The project would build new office space (with
 16 conference and bull room space for 100 employees), warehouse space and additional
 17 yard space. PG&E claims to need this project because some local groups (unnamed)
 18 have “demanded” that PG&E increase its presence in the area.

19 As explained by PG&E in its workpaper;

1 “Currently the existing Auburn Service Center has a population of less
2 than 15,000 and every day crews travel back and forth from the Auburn
3 SC to different locations in Roseville and Rocklin responding to leak
4 repairs, dig-ins, customer call outs and other activities. Continuing a base
5 in Auburn not only increases overall response time, but also affects travel
6 time and costs, productivity, safety and logistics.”¹²³

7 PG&E claims that its presence in the Auburn Service Center is negatively affecting its
8 productivity and efficiency in serving the Roseville area. However, PG&E requests
9 \$16.324 million in capital and \$563,000 in expense (2014 and 2015) to rebuild the Auburn
10 Service Center. The Commission needs to decide which version of PG&E’s story it is
11 going to believe. It should not authorize \$16.887 million to refurbish the Auburn Service
12 Center at the same time it authorizes \$24.162 million for a new Roseville Service Center.
13 TURN’s decision is to reject PG&E’s \$24.162 million request for the Roseville Service
14 Center. PG&E’s oblique reference to some unnamed groups in Roseville seeking a
15 higher PG&E presence in the area is not sufficient reason to spend over \$24 million that
16 will ultimately be collected in rates. Furthermore, PG&E has provided no analysis on
17 cost savings or productivity enhancements that could justify its proposed investment.

18 If the Commission does not reject this project it should, in the alternative, reduce its
19 costs based on TURN’s unit cost adjustments. PG&E assumes it will cost a total of \$450
20 per square foot to build the facilities (\$18.0 million), another \$11 per square foot in
21 paving, fencing and yard improvement costs and \$8.06 per square foot to acquire the
22 land.

23 TURN adjusts those costs downward using similar unit costs used to adjust PG&E’s
24 other real estate costs. TURN used its construction unit costs for building a new office
25 space (\$188 per square foot) for all of the building proposed by PG&E. This is a
26 conservative adjustment on TURN’s part because PG&E’s construction costs involve
27 building warehouse space, which is less expensive to build than an office building. The
28 Commission should not provide any recovery of the costs associated with purchasing
29 the land absent a showing that the \$8.06/square foot figure is a reasonable estimate.

¹²³ PG&E-3, WP 12-52

1 This results in a capital cost of \$9.22 million and expense forecast of \$922,121 in 2015.
2 The Commission should reduce PG&E's 2015 capital forecast by \$12.744 million and its
3 expense forecast by \$1.274 million.

4 **6. Antioch Service Center**

5 This project will replace several temporary trailers with a long term, permanent
6 structure of 15,000 square feet. In addition this project will pave 2 acres of yard, apply
7 for permits, and eliminate all the long term trailers. PG&E requests \$6.750 million in
8 capital to replace the trailers and an additional \$958,320 million in capital to pave 2 acres
9 of land. It also wants an additional \$700,000 in expense for furniture, demolition costs
10 and IT costs as well an additional \$80,000 to move and prepare temporary space for 3
11 employees.

12 PG&E provides the following justification for the project

13 "Numerous trailers installed in the 1970s were set up to be used as
14 temporary office space; however the need for space at that location is now
15 long term. The current conditions of the trailers is projected to be rated
16 far less than existing building codes require."¹²⁴

17 TURN primarily recommends that the Commission reject this project in its entirety.
18 PG&E's justification for this project is inadequate. PG&E's sole justification is that the
19 current condition of the trailers may not comply with current building codes. That is
20 neither a surprise nor a relevant justification. PG&E did not say the trailers were falling
21 apart, but that they would not comply with current building codes. Building codes
22 apply to new construction, not to existing 40-year-old structures. Indeed, PG&E's
23 justification for this project could apply to a whole host of its facilities that were built
24 before the current building standards were adopted. It is not a sufficient justification for
25 this project.

26 In the alternative if the Commission finds this project reasonable it should reduce its
27 costs because they are based on the same inflated unit costs PG&E has used throughout
28 this application. Construction costs are based on \$450 per square foot to construct a

¹²⁴ PG&E-3, WP 12-56

1 facility that PG&E itself says is a field construction office. PG&E uses an \$11 per square
2 foot cost to forecast paving costs, when elsewhere it used \$5.49 per square foot.¹²⁵

3 Instead, TURN used a construction cost of \$188 per square foot, paving costs of \$2.73 per
4 square foot and its other proposed unit cost contained in Table 4.

5 TURN's cost adjustments result in total capital expenditure of \$3.058 million in capital
6 and \$426,915 in expense in 2014. The Commission should therefore reduce PG&E's 2014
7 capital request by \$4.65 million and its expense request by \$273,085.

8 **7. *Vaca-Dixon Sub GC Yard Permanent Building***

9 PG&E's workpapers indicate it was going to replace five rented trailers with one new
10 and larger pre-fabricated building to be rented from William Scotsman. PG&E also
11 wants to install an electrified gate to the facility. PG&E's workpaper calculations were
12 not consistent with its testimony description because it assumed the project would build
13 a 5,000 square foot facility at a cost of \$450 per square foot. TURN requested that PG&E
14 reconcile the two different project descriptions and PG&E confirmed it expects to build
15 an entirely new facility and not rent a pre-fabricated building.¹²⁶

16 Given that it took a data request from TURN to get PG&E to accurately describe this
17 project to the Commission, the Commission would be justified in denying the entire
18 project because PG&E did not sufficiently describe, let alone justify, the need for this
19 project to the Commission.

20 In the alternative, the Commission should accept TURN's adjusted cost forecast for this
21 project. That adjusted cost forecast is based on \$188 per square foot for building
22 construction and substitutes \$2.73 per square foot for PG&E's proposed \$11 per square
23 foot for paving. PG&E's \$11 per square foot paving figure is considerably more
24 expensive than the paving costs it uses for most all of its other projects (i.e., \$5.49 per
25 square foot).¹²⁷

¹²⁵ As previously discussed, TURN believes that even the \$5.49 per square foot for paving is an inflated cost relative to costs \$2.73 per square foot average cost for paving provided by the BuildingJournal.com for the Oakland (east bay) area.

¹²⁶ TURN #47.Q18 included as Attachment 34

¹²⁷ PG&E-7, WP 6-958

1 TURN also adjusted PG&E's costs for installing gravel bins from \$600,000 to \$225,000
2 based on PG&E's own estimates for installing gravel bins contained in its workpapers.¹²⁸
3 We adjusted furniture costs downward consistent with our other furniture cost
4 estimates. Finally, TURN made a small adjustment to PG&E's proposed IT costs to
5 ensure they were consistent with PG&E's other IT cost assumptions. Throughout its
6 entire application, PG&E has assumed IT costs for real estate investments would be split
7 90%/10% to capital and expense respectively. In its Vaca-Dixon project, PG&E allocated
8 100% of its proposed IT costs to expense. TURN therefore adjusted PG&E's proposed IT
9 costs to capture the same capital/expense split as all of PG&E's other corporate real
10 estate costs.

11 The result lowers PG&E's capital from \$4.396 million to \$1.479 million and its expense
12 forecast from \$237,000 to \$131,865.¹²⁹ Thus, the Commission should lower PG&E's
13 capital request by \$2.917 million and \$105,136 in expense for 2012-2014.

14 **8. Corporate Real Estate Projects in Energy Supply (PG&E-6)**

15 *a. Humboldt Bay Generating Station Warehouse and Workshop*

16 PG&E requests a total of \$2.263 million in capital (2012-2014) to construct a warehouse
17 and workshop at its Humboldt Bay Generating Station (HBGS). PG&E claims it needs to
18 replace the current cargo container it uses as a warehouse with a facility that is climate
19 controlled, and that increased operating hours for the HBGS drive the need for a
20 workshop to maintain and recondition equipment. TURN adjusts PG&E's forecast by its
21 proposed real estate unit costs contained in Table 4.

22 PG&E's provided minimal documentation for this project in its workpapers. Table 4
23 replicates PG&E's HBGS workpapers in their entirety.

¹²⁸ PG&E-3, WP 12-19

¹²⁹ TURN's proposal to allocate PG&E's IT costs consistently with all of PG&E's other cost forecast slightly increases PG&E's capital request from \$4.350 million to \$4.396 million and reduces its expense forecast from \$250,000 to \$235,000.

1

Table 8: HBGS Costs ('000 nominal \$)

Task	Cost
Engineering and Permits	\$ 400
Buildings	\$ 0,500
Crane/Office	\$ 200
Other	\$ 163
Total	\$ 1,263

2

3 PG&E workpapers did not provide information on the size of the facilities. However, in
4 response to a TURN data request, we can compare and evaluate the costs similar to the
5 costs TURN has reviewed for PG&E's remaining corporate real estate costs.

6 PG&E assumes it will cost \$1.5 million to build a 5,000 square foot warehouse and a
7 3,200 square foot workshop.¹³⁰ On average that assumes a unit construction cost of \$183
8 per square foot for both the warehouse and the workshop. As demonstrated earlier in
9 this testimony, a more realistic cost for constructing a warehouse is \$83 per square foot.
10 We also used a lower cost for building a shop based on TURN's proposed workshop
11 unit costs for rebuilding the Auburn Service Center (\$66 per square foot). This results in
12 total facility capital costs of \$626,200. TURN then adjusted this capital cost by PG&E's
13 2009-2012 recorded engineering/design/testing costs (see Attachment 18 to this
14 testimony) of 1.40% which adds an additional \$8,767 to the facility costs.

15 As shown in Table 7 PG&E added an additional \$363,000 to this project for a
16 "crane/office" and "other" costs. PG&E did not explain the nature of these costs, the
17 reasons for these costs, or how it developed these costs. PG&E has not demonstrated the
18 reasonableness of these costs, so the Commission should reject them. The result of
19 TURN's analysis recommends a complete funding level of \$634,967 in capital for this
20 project. The commission should reduce PG&E's proposed capital spending by \$1.628
21 million for 2011 through 2014.

22 **9. Risk and Audit Department Facility Costs**

23 *a. Alternate Company Headquarters/Alternate Emergency Operations Center*

24 PG&E requests \$19.9 million in capital in 2014 and \$250,000 in expense for 1) an alternate
25 company headquarters (ACHQ) and 2) an alternate energy operations center (EOC).

¹³⁰ TURN #45.Q20 included as Attachment 33

1 PG&E proposes to build these two facilities as back-up facilities to be used in the event a
2 major earthquake occurs in the Bay Area and renders the primary headquarters and
3 emergency operations centers inoperable.¹³¹ PG&E reports that its current alternate
4 headquarters and emergency operations buildings are located at its San Ramon location
5 and that because this is located on the Hayward fault both its primary and alternate
6 headquarters and emergency operations centers could be impacted at the same time.
7 The Commission should primarily reject this project as imprudent and a product of poor
8 planning. In addition, the project, as described, has little chance of becoming used and
9 useful by the end of the test year, and therefore should not be added this to rate base
10 and plant in service in 2014. If the Commission does authorize this project, it should
11 limit authorized funding levels to those resulting from TURN's cost adjustments.

12 PG&E's workpapers to PG&E-9, indicate that PG&E plans on hiring a consultant (in
13 2014) to review the company's business continuity plans to identify the essential
14 personnel who would be needed for this alternate headquarters. PG&E reports that this
15 study will be completed in 2014 and a proposal to build an ACHQ would then be
16 developed. PG&E must then use that study to identify a location for the ACHQ and
17 AEOC, it must purchase the property for that location, hire a construction contractor,
18 finish constructing and other work on a 22,500 square foot facility, and transition it into
19 a used and useful asset—all in less than 12 months if the project is to be completed in
20 2014. TURN does not believe that PG&E can complete this project by the end of the test
21 year under these circumstances. Therefore, it should be excluded from the capital
22 forecast for 2014.

23 If the Commission does find that this project can be completed in such haste, then the
24 Commission should only authorize project funding based on more reasonable unit cost
25 assumptions.

26 TURN adjusted PG&E's construction costs down from \$575 per square foot to \$183 per
27 square foot. We adjusted PG&E's personnel IT costs downward from \$16,000 per
28 employee to \$4903 per employee.¹³² Finally, TURN excluded PG&E's proposed \$3.0

¹³¹ PG&E-9, WP 3-102 through 3-106

¹³² See Attachment 23.

1 million for 20 miles of fiber optic cable. Since PG&E has stated it will find a suitable
2 location after its consultant report is finished, there is no reason to believe PG&E will
3 have to install 20 miles of fiber optic cable (rather than 2 miles or 50 miles), since the
4 current location is unknown.

5 The result is to adjust PG&E's proposed capital cost forecast from \$19.9 million in 2014
6 to \$6.353 million in 2014. The Commission should reduce PG&E's 2014 capital cost
7 forecast by \$13.5 million.

8 **IV. SmartMeter Audit in the Test Year**

9 In PG&E's 2011 general rate case, the Commission accepted TURN's proposal to review
10 PG&E's practices for allocating SmartMeter related costs between the SmartMeter
11 Balancing Account and general rates.

12 "At Pacific Gas and Electric Company's expense, Commission staff shall
13 oversee an independent audit of Pacific Gas and Electric Company's
14 SmartMeter-related costs to determine whether costs that should have
15 been recorded in the SmartMeter balancing accounts were instead
16 recorded in other accounts. The cost to Pacific Gas and Electric of the
17 audit shall not exceed \$200,000 and shall be recoverable through the
18 SmartMeter balancing account." (Dec. 11-05-018, OP #19)

19 Despite being an order by the Commission the audit was never undertaken. In response
20 to a TURN inquiry about the status of the audit, PG&E provided the following response.

21 "PG&E has not had any communications with the CPUC staff on the
22 staff's independent audit of PG&E's SmartMeter costs ordered by
23 Decision 11-05018. PG&E has no knowledge of the current status of the
24 audit or the staff's plans for it. As requested, if the CPUC staff contacts
25 PG&E regarding the audit or if PG&E learns of any change in the status
26 of the audit, PG&E will update this response." (TURN #08.Q1)

27 It is more than a little disappointing to learn that the Commission (and its staff) has
28 failed to implement its own orders. The issue has not gone away and is as relevant as
29 ever. TURN has already discovered at least \$2.4 million in Smart-Meter related customer
30 inquiry costs that it believes have been incorrectly allocated to 2011 base rates in this
31 proceeding. We would not be surprised upon finding other SmartMeter related costs
32 incorrectly booked to base rates.

1 In addition, the Commission needs to increase its understanding of how its earlier
2 decisions authorizing AMI has been implemented and whether the project's proposed
3 cost effectiveness compares to its actual cost-effectiveness. Indeed, discovery in this
4 proceeding has shown that the operational benefits that were proposed by PG&E and
5 accepted by the Commission are not reaching the goals expected in D. 06-07-027 or D.
6 09-03-026.

7 By the end of 2012 PG&E had installed close to 8.915 million electric and gas
8 SmartMeters, but had only activated about 5.975 million of those meters or 66%. The
9 remaining 33% of meters installed were not activated – depriving ratepayers of the
10 monthly operations benefits that were promised.¹³³ During 2012, PG&E had between 1.6
11 and 1.9 million electric meters installed but not activated and between 1.2 and 1.4
12 million gas meters installed but not activated. Using the current benefits realization
13 mechanism (minus the \$/meter/month meter reading benefits)¹³⁴ TURN has calculated
14 that PG&E's ratepayers were deprived of close to \$21.0 million in SmartMeter benefits
15 for 2012.

16 Even worse, is the fact that the AMI project has seriously diluted any operational cost
17 effectiveness, because the timing of costs and benefits is unbalanced and were never
18 fully understood by the Commission. Costs are all incurred up front, so that when
19 PG&E purchases a SmartMeter of module, that equipment is booked to rate base,
20 regardless of the meter being installed or activated.¹³⁵ However the Commission left it
21 up to PG&E to decide when to activate those meters so they could provide benefits. The
22 results of this model have not worked out well for ratepayers.

23 In sum, the Commission needs to ensure that its earlier order directing Commission staff
24 to provide a financial audit of PG&E's SmartMeter cost allocation practices is as
25 important as it was in the 2011 general rate case. TURN recommends that the
26 Commission staff hire an independent accounting firm to audit SmartMeter related costs
27 to reduce the resource burden on the staff. The Commission should also set a strict

¹³³ See TURN #26.Q2(b) and (c), included as Attachment 36.

¹³⁴ A. 09-12-020, PG&E-4, Chapter 13, Table 13-3, included as Attachment 37.

¹³⁵ TURN #59.Q10, included as Attachment 38.

1 timeline on the audit and ensure it is completed no later than nine months after a final
2 decision in this proceeding. Upon completion of the audit, the Commission should then
3 open a further phase of this proceeding to evaluate the results of that audit.

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