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

Application of Pacific Gas and Electric Company for Authority to Increase Revenue Requirements to Recover the Costs to Deploy an Advanced Metering Infrastructure

A.05-06-028 (Filed June 16, 2005)

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## MONTHLY SMARTMETER™ STEERING COMMITTEE UPDATE REPORT OF PACIFIC GAS AND ELECTRIC COMPANY FOR AUGUST 2013 IN ACCORDANCE WITH THE MAY 4, 2010 ASSIGNED COMMISSIONER'S RULING

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Attorneys for

Dated: October 31, 2013 PACIFIC GAS AND ELECTRIC COMPANY

Pacific Gas and Electric Company (PG&E) submits the attached August 2013

"SmartMeter<sup>TM</sup> Steering Committee Update Report" on the deployment and budget status of its

Advanced Metering Infrastructure (AMI) Project in accordance with the May 4, 2010 "Assigned

Commissioner's Ruling Reopening Proceeding, Requiring That Reports Be Filed in This

Proceeding, and Ordering Pacific Gas and Electric Company to Release Prior and Future Reports

to the Public," Ordering Paragraph 3. Underlying Decision 06-07-027, Ordering Paragraph 4,

requires that this monthly summary report provide the following information: 1) project status;

2) progress against baseline schedule including equipment installation and key milestones; 3)

actual project spending vs. forecast; and 4) risk-based contingency allowance draw-down status.

The attached report complies with that decision and the Commissioner's Ruling.

Respectfully Submitted,

CHRISTOPHER J. WARNER

/s/ Christopher J. Warner By:

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# SmartMeter<sup>®</sup>

SmartMeter<sup>™</sup>
Steering Committee Update – August 2013

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#### Monthly Updates

- Release Status Update
- Deployment Status Update
- Schedule Update
- Deployment Update
- Budget Status Expenditures by Workstream
- Budget Status Benefits
- Issues / Risks Summary
- Program Metrics

#### - Appendix

- Project Deployment Plan Progress
- Contingency Reconciliation
- SmartMeter<sup>™</sup> Acronyms



## **Release Status Update**

	EAC	Funded Budget	ITD	Scope	Schedule	Resources	Issues	Risks
IT Releases: July 31, 2013							_	-
Release 1								
Release 2								
Release 3								

Actions/Status Challenges

## <u>Overall</u> <u>Overall</u> All in-scope functionality completed as of 3/30/12. • IT completed all work expected by the SmartMeter plan. nementation and aligned with Demand Response Programs. HAN enablement and Peak Time Rebate roadmaps have been aligned with HAN enablement in it me Re their ongoing regulatory proceedings. awaiting Commission approval.



## **Deployment Status Update**

	EAC	2013 Forecast (2013 EOY / CPI)	Scope	Schedule	Resources	Issues	Risks
Deployment: July 31, 2013							
Endpoints (2013 YTD)							
Gas Network (2013 YTD)							
Electric Network (2013 YTD)							

ons/Status

#### **Endpoints**

- Mass deployment is 96% completed. Remaining meter installs continuing in less concentrated geographic areas.
- Field Deployment team continuing to address less common meter types.
- Higher than traditional number of 'Unable-To-Complete' meters.

#### Endpoints

- Mass deployment is effectively complete, with contractor and PG&E resources continuing to attempt final meters in less concentrated geographic areas and where higher than anticipated 'Unable-to-Complete' meters linger and some locations continuing to await next-generation technologies.
- Overall, more than 9.7 million meters have been installed.

#### Electric Network

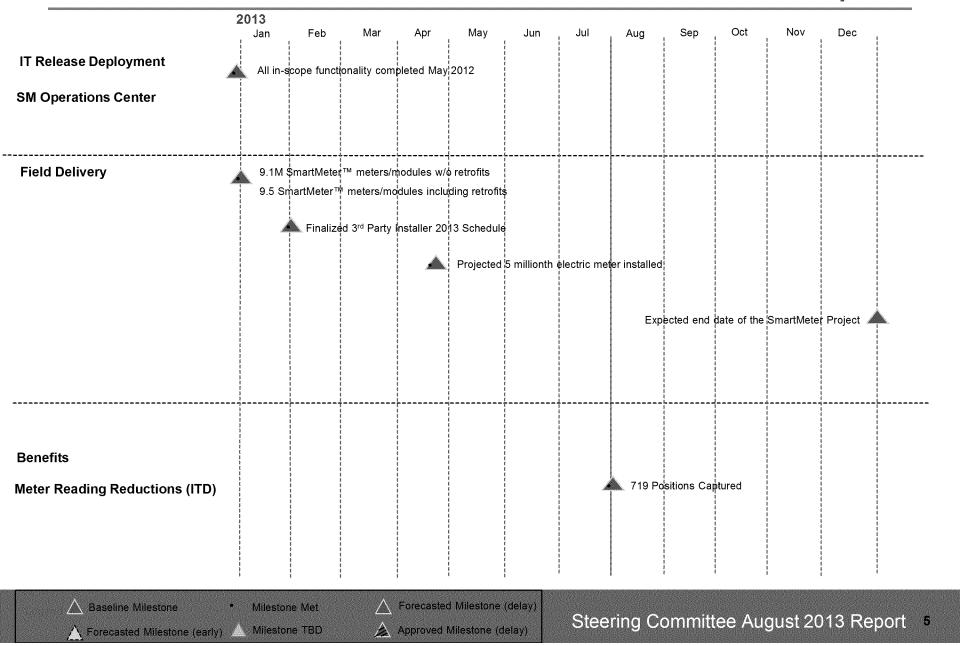
- Initial design scope of electric network is complete.
- Assess whether additional electric network is necessary in light of customers opting out of SmartMeter™ Program.

#### Electric Network

- Tracking the impact of opt-outs on network.
- Working with technology supplier and internal stakeholders to develop alternative solutions to address network coverage in 'hard-to-reach' areas.



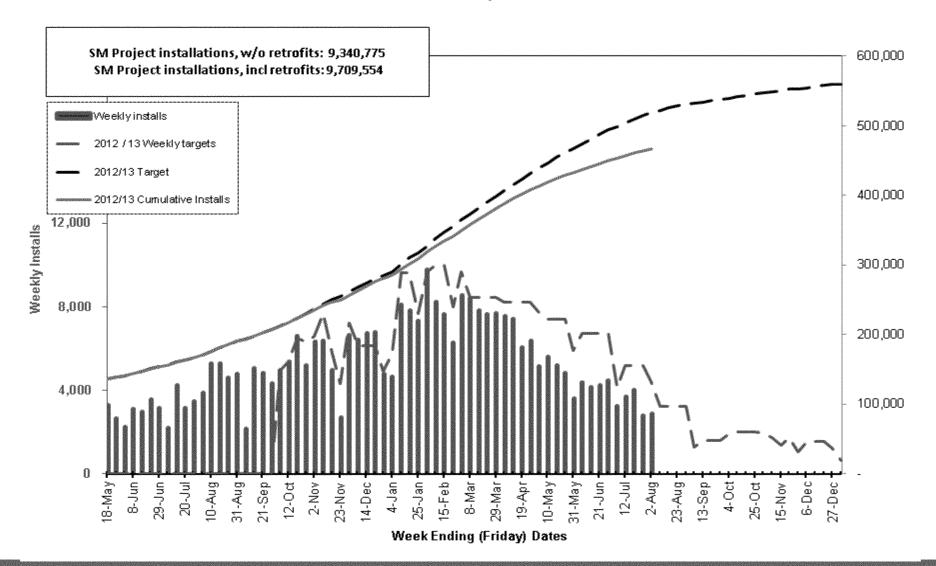
## **Schedule Update**







#### 2012 / 13 Install Rate - Weekly Meter Totals





## 2013 Budget Status – Expenditures by Workstream

		Curr	ent Month	luly	Yea	ar to Date - Ju	lly	2013 End-of-Year	Inception to	
#	Work Stream	Budget	Actual	Variance	Budget	Actual	Variance	Forecast	Date Actual	#
	A. Capital (000s)	-								
1	BUSINESS OPERATIONS (PMO)	\$53	\$24	\$29	\$486	\$419	\$67	\$1,236	\$50,996	1
2	SM OPERATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,310	2
3	SM FIELD DELIVERY	\$2,327	\$4,080	(\$1,753)	\$16,353	\$24,711	(\$8,358)	\$13,551	\$464,435	3
4	SM SOLUTIONS	\$35	(\$44)	\$79	\$9,024	(\$1,166)	\$10,190	\$10,207	\$983,100	4
5	IT	\$133	\$185	(\$52)	\$1,334	\$2,118	(\$784)	\$3,137	\$377,525	5
6	Capital Total:	\$2,548	\$4,245	(\$1,698)	\$27,197	\$26,082	\$1,115	\$28,131	\$1,887,366	6
	B. Expense (000s)									
7	BUSINESS OPERATIONS (PMO)	\$10	\$7	\$3	\$51	\$38	\$13	\$187	\$26,910	7
8	SM OPERATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56,594	8
9	SM CHANGE MANAGEMENT	\$0	\$0	\$0	\$0	(\$71)	\$71	\$0	\$14,947	9
10	CUSTOMER	\$725	\$293	\$432	\$3,826	\$2,956	\$870	\$7,121	\$111,430	10
11	SM FIELD DELIVERY	\$36	(\$1,832)	\$1,868	\$250	(\$314)	\$564	\$1,852	\$21,427	11
12	SM SOLUTIONS	(\$0)	\$0	(\$0)	(\$1)	\$13	(\$14)	\$0	\$67,977	12
13	ΙΤ	\$135	\$105	\$30	\$1,129	\$492	\$637	\$2,239	\$135,170	13
14	Expense Total:	\$906	(\$1,426)	\$2,332	\$5,255	\$3,114	\$2,141	\$11,399	\$434,455	14
	C. Total: Capital + Expense (000s)									
15	BUSINESS OPERATIONS (PMO)	\$63	\$32	\$32	\$537	\$457	\$79	\$1,423	\$77,906	15
16	SM OPERATIONS	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$67,904	16
17	SM CHANGE MANAGEMENT	\$0	\$0	\$0	\$0	(\$71)	\$71	\$0	\$14,947	17
18	CUSTOMER	\$725	\$293	\$432	\$3,826	\$2,956	\$870	\$7,121	\$111,430	18
19	SM FIELD DELIVERY	\$2,363	\$2,248	\$115	\$16,603	\$24,397	(\$7,794)	\$15,403	\$485,862	19
20	SM SOLUTIONS	\$35	(\$44)	\$79	\$9,023	(\$1,153)	\$10,176	\$10,207	\$1,051,077	20
21	IT	\$268	\$291	(\$23)	\$2,464	\$2,610	(\$146)	\$5,376	\$512,695	21
22	Capital + Expense Total:	\$3,453	\$2,819	\$635	\$32,452	\$29,196	\$3,256	\$39,530	\$2,321,821	22

#### Year-to-Date Variance Explanations:

Favorable YTD capital variance (\$1.1M) primarily due to higher than anticipated installation costs (#3), which have been more than offset by a combination of lower electric meter purchases (#4), and a net reclassification from capital to expense of prior labor costs associated with meters not retired, but instead reused through the warranty process (#4). Favorable YTD expense variance (\$2.1M) primarily due to underruns in Customer (#10), Field Delivery (#11), and IT (#13).

#### SmartMeter Balancing Account (SBA) Credits \*

					The state of the s		100 AU	A	ctual									100			Rem	naining Fo	recasí	t				
_#_	(\$ in thousands)	2007	2008	2009	2010	2011	2012		Jan	F	eb	Mar		Apr	May	Ju	ın	Jul	Aug	Sep		Oct		Nov		Dec	ITD Actual	_#_
1	Activated Meter Benefits:	\$ 111	\$ 4,705	\$ 26,055	\$ 56,313	\$ 25,269	\$ 32,392	\$	2,988	\$ 3	3,030	\$ 3,0	92 \$	\$ 3,136	\$ 3,235	\$ 3	3,284	3,318	\$ 3,399	\$ 3,	166	\$ 3,499	\$	3,514	1 \$	3,526	\$ 166,928	1
2	Mainframe License Benefits:	\$ 1,250	\$ 5,000	\$ 5,000	\$ 5,000	\$ -	\$	\$	-	\$		\$ -		\$ -	\$ -	\$	- :	\$ -	\$ -	\$	- \$	\$ -	\$	-	\$		\$ 16,250	2
3	Total:	\$ 1,361	\$ 9,705	\$ 31,055	\$ 61,313	\$ 25,269	\$ 32,392	\$	2,988	\$ 3	3,030	\$ 3,0	92	\$ 3,136	\$ 3,235	\$ 3	3,284	\$ 3,318	\$ 3,399	\$ 3,	166	\$ 3,499	\$	3,514	\$	3,526	\$ 183,178	3
4	2013 Cumulative Actual + Forecast:							\$	2,988	\$ 6	6,019	\$ 9,1	11 :	\$ 12,246	\$ 15,481	\$ 18	3,765	\$ 22,083	\$ 25,482	\$ 28,	948 \$	\$ 32,448	\$	35,962	: \$	39,488		4

#### 2013 Benefits, Budget vs. Actual and Forecast \*\*

	(\$ in thousands)	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	
	Budgeted Benefits:		
5	Monthly	\$ 3,255 \$ 3,384 \$ 3,519 \$ 3,659 \$ 3,805 \$ 3,956 \$ 4,114 \$ 4,278 \$ 4,448 \$ 4,625 \$ 4,810 \$ 5,001	5
6	Cumulative	\$ 3,255 \$ 6,639 \$ 10,158 \$ 13,818 \$ 17,622 \$ 21,579 \$ 25,693 \$ 29,971 \$ 34,419 \$ 39,045 \$ 43,854 \$ 48,856	6
	Actual / Current Forecast:		
7	Monthly	\$ 3,794 \$ 4,045 \$ 4,500 \$ 4,048 \$ 4,604 \$ 3,982 \$ 4,343 \$ 4,278 \$ 4,448 \$ 4,625 \$ 4,810 \$ 5,001	7
8	Cumulative	\$ 3,794 \$ 7,839 \$ 12,339 \$ 16,387 \$ 20,991 \$ 24,973 \$ 29,316 \$ 33,594 \$ 38,042 \$ 42,668 \$ 47,477 \$ 52,479	8
9	YTD Variance	\$ 539 \$ 1,200 \$ 2,181 \$ 2,569 \$ 3,368 \$ 3,394 \$ 3,623 \$ 3,623 \$ 3,623 \$ 3,623 \$ 3,623 \$ 3,623	9

<sup>\* 2011</sup> and 2012 SmartMeter Balancing Account (SBA) actuals and forecasts consistent with the GRC Settlement of \$0.92 electric / \$0.02 gas activated meter-month savings and the discontinuation of mainframe license savings already captured in the 2008 base year results

<sup>\*\* 2013</sup> benefits, budget versus actual and forecast, do not include meter reading costs and benefits which are being recorded in the Meter Reading Memorandum Account beginning on January 1, 2011.



Target Resolution Date	Issue	Impact	Status Summary
Ongoing	Installation attempts affected by access refusals and desire for customer choice program.	Increased costs, increase in unable to complete (UTC) back-log, customer change management.	Communicating with customers about the new SmartMeter Opt-Out Program to facilitate customer elections.  Customer Choice Phase 2 resolution timing is uncertain.



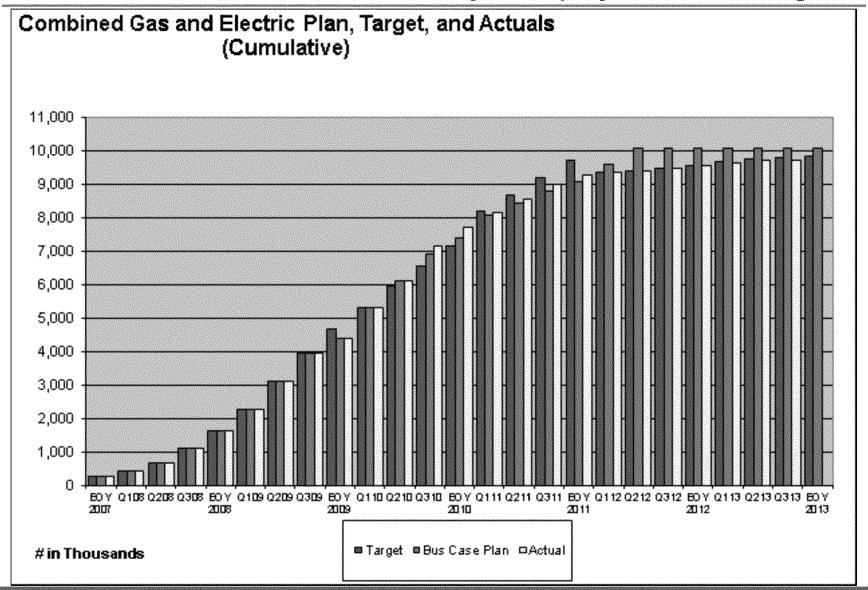
## **Risks Summary**

#	Created On	1	Р	Score	Prev. Score	Risk	Impact	Status Summary	Assoc. Issue
1	9/30/2011	5	4	20	20	Increased forecast deployment costs and external resources requirement Key drivers: Delays in deployment, resource availability and installation complexity	Increased installation costs and contract resources required to complete remaining installations effectively and timely	Pursuing identified opportunities to increase installation efficiency within ongoing operations and adherence to scope.	
2	9/1/2011	5	3	15	15	Network deployment and performance in 'hard-to-reach' areas can not be completed successfully.  Key drivers: Network performance in 'hard-to-reach' areas and availability of alternate solutions.	Deployment delays, resource planning and increased costs.	Pursuing resolution of network coverage in 'hard-to-reach' areas with technology supplier, including potential alternate network solutions.	





Metric	Key Performance Indicator	June '1: Actua	3 - Month Results   Target Var	annum serve	y '13 :tual	- Month Results Target Var	Actua	YTD Target Var	2013 Ye Curren	ear End Forecast Target Var	Variance Analysis
P1	SM Earnings Contribution (\$M-estimated)	\$ 5.07	\$ 4.88 3.9%	\$ 5	.50	\$ 4.83 13.9%	\$ 35.91	\$ 34.33 4.6%	\$ 59.70	\$ 58.11 2.7%	
P2	OSHA Recordable Rate (YTD)	-	0.51		-	0.51	L		-	0.51	
P3	MVIRecordable Rate (YTD)	-	0.10		-	0.10			-	0.98	
C1	Customers enrolled in SmartRate (net)	120,083	(track only)	120	),098	(track only)	·		_		
C2	# of CPUC escalated Customer Complaints	1	(track only)		0	(track only)	10	(track only)			
C10	Customer Complaint Rate (escalated to CPUC)	0.006%	(track only)	0.0	00%	(track only)	0.005%	(track only)			
D1	Meters/ModulesInstalled- Electric& Gas	18,086	26,967 -32.9%	15,	939	22,766 -30.0%	197,122	232,354 -15.2%	274,000	278,054 -1.5%	See Slide 4 for details
D5	UTC Rate	36.0%	25.0% -30.6%	27	.6%	25.0% -9.4%	36.3%	25.0% -31.1%	25.0%	25.0% 0.0%	See Slide 4 for details
D7	UTCs open beyond 90 days	135,018	(track only)	137,	987	(track only)					•
D8	CPI - Endpoints	\$172.10	\$123.96 -28.0%	\$13	5.14	\$123.96 -8.3%	\$150.12	\$123.77 -17.6%	\$148.96	\$114.37 -23.2%	
D14	Total Weeks of Inventoryon Hand - Electric Meters	10	6 167%		10	6 167%					•
D15	Total Weeks of Inventoryon Hand - Gas Modules	12	6 200%		2	6 33%					
04	TransitionAging - AverageDays	210	(track only)		257	(track only)	213	(track only)	209	(track only)	
O5	SM Billing accuracy % (SA)	99.88%	99.88% 0.0%	99.	86%	99.88% 0.0%	99.81%	99.87% -0.1%	99.88%	99.88% 0.0%	
O6	SM Billing timeliness % (SA)	99.98%	99.81% 0.2%	99.	97%	99.81% 0.2%	99.96%	99.80% 0.2%	99.79%	99.79% 0.0%	
07	SM % Bills not estimated (BSEGs)	99.93%	99.90% 0.0%	99.	94%	99.90% 0.0%	99.93%	99.90% 0.0%	99.90%	99.90% 0.0%	
В2	MetersActivated - Electric & Gas (end of month)	51,160	(track only)	62,	466	(track only)	629,649	(track only)	1,044,500	(track only)	





SmartMeter™ Contingency Reconciliation	\$'000s
Business Case Approved Contingency	177,753
Total Approved Decision Requests Approved and Adopted by Steering Committee	177,753
Approved Project Decision Requests, by Approval Date	
2007	1 <b>0</b> 6,329
2008	32,240
2009	20,313
2 <b>0</b> 10	18,871
	177,753



## **SmartMeter<sup>TM</sup> Acronyms**

	SmartMeter	Acronyms	
Acronym	Definition	Acronym	Definition
ABS	Advanced Billing System	MARA	My Account Re-Architecture
AFCI	Arc Fault Circuit Interrupter	MDMS	Meter Data Management System
AMI	Advanced Metering Infrastructure	MLPP	Meter Location Problem Project
AP	Access Point	MPSC	Meter Power Status Check
Apps	Applications	MV-90	Multi Vendor - 90
ASM	Automated Storage Management	MVI	Motor Vehicle Incidents
BDG	Business Development Group	NEMS	Net Energy Metering Services
CC&B	Customer Care and Billing	NIC	Network Interface Card
CEDSA	Centralized Electric Distribution System Assets	OIR	Order Instituting Rulemaking
CoE	Center of Excellence	OIS	Outage Information System
CPI	Cost Per Install	OMT	Outage Management Tools
CPUC	California Public Utilities Commission	Ops	Operations
DART	Distribution Asset Reconciliation Tool	OSHA	Occupational Safety and Health Administration
DC	Data Center	PCR	Project Change Request
DCU	Data Collector Unit	PCT	Programmable Communicating Thermostat
DR	Disaster Recovery	PDP	Peak Day Pricing
DRA	Division of Ratepayer Advocates	PDR	Project Decision Request
DSCI	Distribution Control Systems, Inc.	PE	Perfomance Engineering Company
EA	Ecologic Analytics	PMO	Project Management Office
EAC	Estimate at Completion	PTR	Peak Time Rebate
ED	Energy Division	QBR	Quarterly Business Review
EMR	Electric Meter Reader	RCDC2	Remote Disconnect Phase 2
EMT	Electric Meter Technician	Rev.	Revision
EOM	End-of-Month	RF	Radio Frequency
EON	Emergency Outage Notification	RFA	Request For Authorization
EOY	End Of Year	RV	Restoration Validation
FA	Functional Area	SBA	SmartMeter Balancing Accounts
FD	Field Delivery	SM	SmartMeter
GE	General Electric Co.	SM Apps	SmartMeter Applications
GFI	Ground Fault Interrupter	SMU	SmartMeter Upgrade
HAN	Home Area Network	SR	Service Request
HC	Head Count	TBD	To Be Determined
IHD	In-Home Devices	TechArch	Technical Architechture
ISTS	Information Systems and Technology Services	TIC	Technology Innovation Center
IT	Information Technology	TLM	Transformer Load Management
ITD	Inception To Date	TOU	Time Of Use
IVR	Interactive Voice Response	UIQ	Utility IQ - SSN software
KC	Knowledge Center	UTC	Unable To Complete (meter installation)
KVAR	Kilo-Volts-Amps Reactive	YTD	Year-To-Date
LOB	Line of Business		