

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

Order Instituting Rulemaking on the Commission's Own Motion to Adopt New Safety and Reliability Regulations for Natural Gas Transmission and Distribution Pipelines and Related Ratemaking Mechanisms.

Rulemaking 11-02-019  
(Filed February 24, 2011)

**NOTICE OF EX PARTE COMMUNICATION  
OF PACIFIC GAS AND ELECTRIC COMPANY**

Pursuant to Rule 8.4(a) of the Commission's Rules of Practice and Procedure, Pacific Gas and Electric Company (PG&E) hereby gives notice of the following ex parte communication. The communication occurred on Wednesday, August 24, 2011, at approximately 3:00 p.m. at the offices of the California Public Utilities Commission. The communication was oral and a handout was provided, which is attached to this notice.

[(Rule 8.4(a)(c))]

Jennifer Dowdell, Director-Regulatory Relations, PG&E, initiated the communication with Commissioner Michel Peter Florio. Other attendees present were: Sepideh Khosrowjahi (Chief of Staff to Commissioner Florio); Marcelo Poirier (Legal Advisor to Commissioner Florio); Thomas Bottorff (Sr. Vice President-Regulatory Relations, PG&E); Jane Yura (Vice President-Gas Engineering and Operations, PG&E); Todd Hogenson (Director-Implementation Plan Engineering, PG&E); and Bill Manheim (Attorney-Law, PG&E) [Rule 8.4(b)]

Ms. Dowdell stated that PG&E would be filing its Implementation Plan (Plan) on August 26, 2011. Ms. Yura explained that PG&E proposed a two phase Plan reflected

a comprehensive, multi-year scope of work to meet new safety and regulatory requirement. Mr. Hogenson detailed the individual workstreams comprising the Plan work. Mr. Bottorff discussed the costs of the Plan and stated that the cost to customers would be an increase of 3%-5% on the total average bill. [Rule 8.4(c)]

Respectfully submitted,

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Attachment

Dated: August 29, 2011



Confidential Discussion Draft until August 26, 2011 filing

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# **Pipeline Safety Enhancement Plan Overview**

August 24, 2011



# Pipeline Safety Enhancement Plan (PSEP) Overview

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## The Pipeline Safety Enhancement Plan (PSEP)...

- Reflects new regulatory requirements which establish a known margin of safety across PG&E's gas transmission system
- Incorporates lessons from the San Bruno accident, NTSB recommendations, Independent Review Panel findings, and industry benchmarking
- Has been shared with or incorporates feedback from key regulators, utilities and other interested parties
- Seeks funding for Phase 1 work (2011-2014) only— with Phase 2 costs to be addressed in future proceeding
- Includes shareholder funding of all 2011 Plan work
- Excludes significant San Bruno-related shareholder spending to-date



## PSEP- Key Features

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- **Assesses and upgrades all PG&E gas transmission pipeline (5,786 miles) to modern safety standards**
- **Phase 1 (2011-2014) upgrades over 1,200 miles of pipe and 228 valves:**
  - Replace or strength test 969 miles of pipe in the most populous areas
  - Retrofit for in-line inspection (ILI) 199 miles and ILI 234 miles
  - Automate 228 valves
  - Validate and modernize gas transmission asset records
- **Phase 2 (2015 forward) addresses remaining gas transmission system**
- **Continues interim safety measures to assure public safety until pipeline modernization work is completed**
  - MAOP validation
  - Increased leak surveys and patrols
  - Pressure reductions as necessary



# PSEP Work Streams

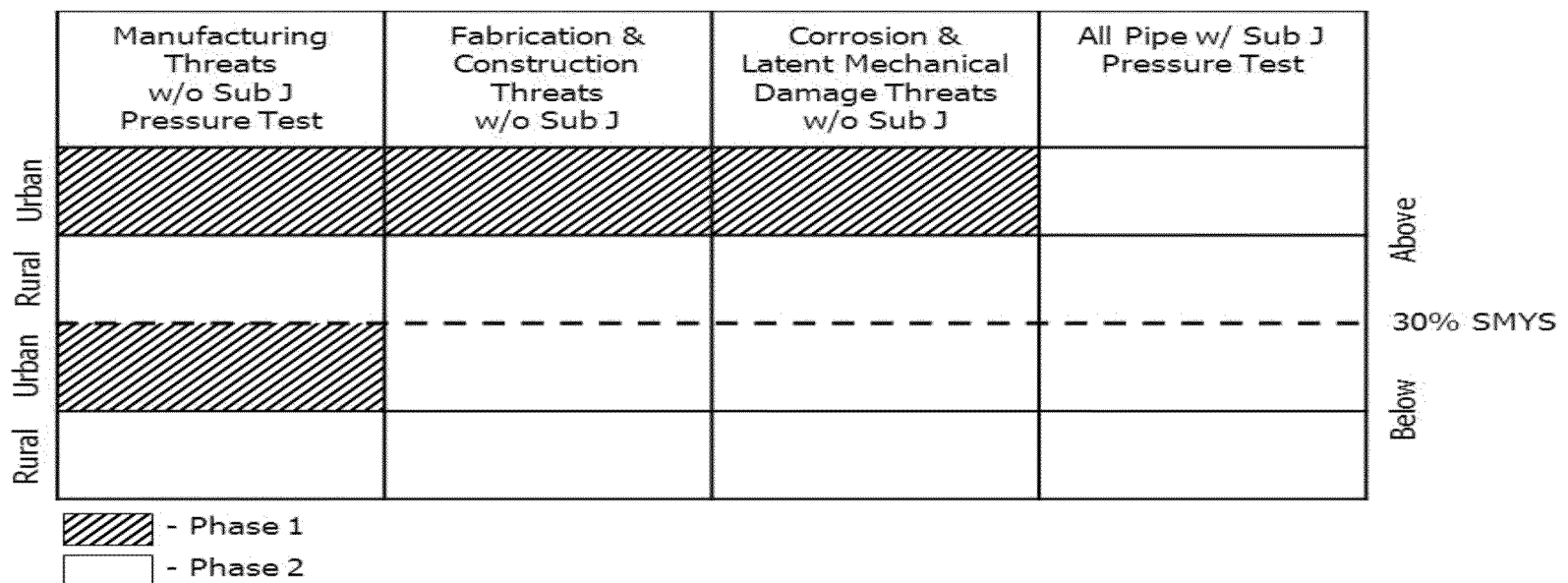
<b>Work Streams</b>	<b>Objective</b>
<b>Pipe Modernization</b>	Assure every gas transmission pipeline operates at or below proven, tested and verified safe operating pressure, “margin of safety” through <ul style="list-style-type: none"><li>• Strength Testing</li><li>• Pipe Replacement</li><li>• Pressure Reductions</li><li>• Engineering assessments, MAOP Validations</li></ul>
<b>Valve Automation</b>	Facilitate emergency response to minimize the potential consequences of a natural gas fueled fire
<b>Records Integration</b>	Reflect the NTSB’s recommendation for a new standard of “traceable, verifiable and complete” gas transmission records
<b>Interim Safety Measures</b>	Increase public safety of PG&E’s gas transmission system prior to completing the work proposed



# Pipeline Modernization

## Pipeline Work Prioritization

- Targets pre-1970 pipe segments that have not been strength tested
- Uses ASME, industry-recognized pipeline threats, physical pipeline attributes, Class location, and operating specified minimum yield strength (SMYS) to define action
- Targets “Urban areas” all Class 2,3,4 and Class 1 HCA w/ high potential impact on people and property
- Project prioritization (annual work plans) based on Class location, HCA, PIR, and customer and public impacts





# Valve Automation

## Valve Work Prioritization

- Targets large diameter/high pressure pipelines located within high population density areas
- ~ 60 percent of Phase 1 automation miles located in the Peninsula/East Bay/South Bay  
Project prioritization based PIR, HCA density and geographic area
- Includes additional SCADA information, tools, and training for gas operators for early detection and quick response to pipeline rupture events

<b>Valve Automation Decision Tree Outcome Summary</b>				
<b>Valve Location</b>	Class 4 pipe segments PIR* > 100 ft.	Class 3 pipe segments PIR > 200 ft.	Class 3 pipe with > 50% HCA , PIR > 150 ft	Active fault, Class 3 or 4 or HCA, PIR > 150 ft
<b>Phase 1 Outcome</b>	<b>200 Remote Control Valves (PIR &gt; 300, Class 3&amp;4 HCA)</b> <b>28 Automatic Shutoff Valve (high threat earthquake fault crossings)</b>			

\* PIR is defined as the radius of a circle within which the potential failure of a pipeline could have significant impact on people or property





## PSEP Phase 1 Scope

Over 1,200 miles of pipe upgraded and 228 valves automated  
2011-2014

Work Streams	2011	2012	2013	2014	Phase 1
Strength Testing*	236 miles**	185 miles	204 miles	158 miles	783
Pipeline Replacements	0.3 miles	39 miles	64 miles	82 miles	186
ILI Upgrades	--	78 miles	121 miles	--	199
In-line Inspections	--	--	78 miles	156 miles	234
Valve Automation	29 valves	46 valves	90 valves	63 valves	228
Records Integration	Data Validation, MAOP Calculations, Integrated Asset & Work Management				
Interim Safety Measures	Pressure Reductions, Leak Surveys, Aerial Patrols				

\* Mileage reflects actual miles pressure tested

\*\* 2011 strength test miles as of June. 2011 total may change due to records validation efforts



# PSEP Phase 1 Costs

## PG&E Proposes 2011-2014 PSEP Costs of \$2.2 B over 4 years

Forecast Costs in \$MM	Shareholder Funded Costs	PSEP Costs Funded in Rates	
	2011	2012-2014	
Cost Categories	Expense*	Capital	Expense
Pipeline Modernization	\$123	\$895	\$285
Valve Automation	\$2	\$120	\$9
Records Integration	\$56	\$96	\$127
Interim Safety Measures	--	--	\$3
Program Management	\$1	\$20	\$11
Contingency	\$39	\$237	\$92
<b>PSEP Total Costs</b>	<b>\$222</b>	<b>\$1,368</b>	<b>\$527</b>

\* For 2011, in addition to expense, shareholders to pay capital costs (\$1.4MM) for projects put in-service



## PSEP Shareholder Allocation

Shareholders fund a substantial portion of PSEP and related safety enhancement costs

	2010	2011	2012	2013	2014	Total
<b>2011 Implementation Plan Work*</b>	--	\$222	--	--	--	\$222
<b>Validation &amp; Testing Post 1970 Pipeline</b>						
Post-1970 MAOP Validation	\$0.1	\$39	\$36	\$11	--	\$86
Post-1970 Pressure Testing	--	\$1	\$7	\$2	\$3	\$13
<b>Non-Implementation Plan Costs**</b>	\$63	\$152	***	***	***	\$215
<b>Total Shareholder Cost Allocation</b>	\$63	\$414	\$43	\$13	\$3	\$536

\* Includes \$220.5 MM in forecast expense and \$1.4 MM forecast capital by EOY 2011.

\*\* Includes gas records gathering, leak surveys and repair, emergency response, and responding to data requests from CPUC, NTSB and others.

\*\*\* Non-Implementation Plan Cost are not forecasted for 2012 and beyond but are expected to be significant



## PSEP Cost Approach

**Proposes to put costs of new safety programs and standards not previously required into rates beginning in 2012.**

### **Not in rates:**

- Costs directly related to the San Bruno accident
- Non-Implementation Plan activities
- Work already included in 2011 GT&S Rate Case funding
- Pressure testing or validation for post-1970 pipe

### **Cost Recovery Approach Includes**

- 2011 PSEP costs paid by shareholders
- Cost targets for expense and capital w/mid program adjustment request mechanism
- Use of funds limited to PSEP
- Customers pay only for capital projects put in-service
- Expense dollars not spent on PSEP returned to customers after 2014
- Semi-annual reporting for funds budgeted vs. spent, and project status



# PSEP Revenue Requirement

- 2011 revenue requirement funded by shareholders
- 2011-2014 revenue requirement: \$768MM for 4 years

Phase 1 Plan Incremental Annual Rev. Req.					
(\$ in millions)	2011**	2012	2013	2014	Total
Total RRQ	0	\$247	\$221	\$300	\$768

\* Assumes non-core customers pay small commercial procurement rates.

\*\* 2011 RRQ (approx. \$224 MM) to be funded by shareholders.



# PSEP Rate Impacts

**Illustrative Class Average End-User Rates  
(\$ per Therm)**

	Present June 2011 Rates	Gas Pipeline Safety Rate	Total Rate Including Gas Pipeline Safety	
			Rate	Percent
<b>CORE RETAIL- Bundled</b>				
Residential Non-CARE	\$1.223	\$0.052	\$1.275	4.3%
Small Commercial Non-CARE	\$0.975	\$0.052	\$1.027	5.3%
Large Commercial	\$0.766	\$0.052	\$0.818	6.8%
NGV1- (uncompressed service)	\$0.661	\$0.052	\$0.713	7.9%
NGV2- (compressed service)	\$1.912	\$0.052	\$1.965	2.7%
<b>CORE RETAIL- Transport Only</b>				
Residential Non-CARE	\$0.650	\$0.052	\$0.702	8.0%
Small Commercial Non-CARE	\$0.418	\$0.052	\$0.470	12.5%
Large Commercial	\$0.248	\$0.052	\$0.300	21.0%
<b>NONCORE- Transportation Only *</b>				
Industrial- Distribution	\$0.171	\$0.025	\$0.196	14.6%
Industrial- Transmission	\$0.069	\$0.025	\$0.094	36.0%
Industrial- Backbone	\$0.042	\$0.002	\$0.044	5.0%
Electric Generation- Transmission (G-EG-D/LT)	\$0.029	\$0.025	\$0.054	86.0%
Electric Generation- Backbone (G-EG-BB)	\$0.007	\$0.002	\$0.010	28.6%
NGV4 - Distribution (uncompressed service)	\$0.155	\$0.025	\$0.180	16.1%
NGV4 - Transmission (uncompressed service)*	\$0.055	\$0.025	\$0.080	45.2%
<b>WHOLESALE CORE AND NONCORE (G-WSL)</b>				
Alpine Natural Gas	\$0.026	\$0.025	\$0.051	97.1%
Coalinga	\$0.026	\$0.025	\$0.051	96.8%
Island Energy	\$0.027	\$0.025	\$0.052	90.9%
Palo Alto	\$0.025	\$0.025	\$0.050	98.6%
West Coast Gas - Castle	\$0.100	\$0.025	\$0.125	24.9%
West Coast Gas - Mather Distribution	\$0.123	\$0.025	\$0.148	20.2%
West Coast Gas - Mather Transmission	\$0.026	\$0.025	\$0.051	96.0%

\* Noncore end-use rate increases range from 3.5%-4.5% on total bill, assuming cost of commodity equal to PG&E's core large commercial commodity rates.

CERTIFICATE OF SERVICE BY ELECTRONIC MAIL OR U.S. MAIL

I, the undersigned, state that I am a citizen of the United States and am employed in the City and County of San Francisco; that I am over the age of eighteen (18) years and not a party to the within cause; and that my business address is Pacific Gas and Electric Company, Regulatory Relations Department B10C, 77 Beale Street, San Francisco, California 94105.

I am readily familiar with the business practice of Pacific Gas and Electric Company for collection and processing of correspondence for mailing with the United States Postal Service. In the ordinary course of business, correspondence is deposited with the United States Postal Service the same day it is submitted for mailing.

On August 29, 2011, I caused to be served a true copy of:

**NOTICE OF *EX PARTE* COMMUNICATION  
OF PACIFIC GAS AND ELECTRIC COMPANY**

**[XX]** By Electronic Mail – serving the enclosed via e-mail transmission to each of the parties listed on the official service list for R.11-02-019 with an e-mail address.

**[XX]** By U.S. Mail – by placing it for collection and mailing, in the course of ordinary business practice, with other correspondence of Pacific Gas and Electric Company, enclosed in a sealed envelope, with postage fully prepaid, addressed to all parties of record on the service list for R.11-02-019 who do not have an email address.

I certify and declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on August 29, 2011 at San Francisco, California.

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