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**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

R.11-02-019  
(Filed February 24, 2011)

**STIPULATION RE ORDER TO SHOW CAUSE**

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March 24, 2011

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Commission's Own Motion to Adopt New  
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**STIPULATION RE ORDER TO SHOW CAUSE**

Pacific Gas and Electric Company ("PG&E") stipulates as follows with respect to the Order to Show Cause ("OSC") issued by the Commission on March 24, 2011:

1. In order to protect public safety and expedite PG&E's compliance with the National Transportation Safety Board's urgent safety recommendations as required by Commission Resolution L-410, PG&E and Commission Staff developed a Compliance Plan appended hereto as Attachment 1. The Compliance Plan, among other things, establishes milestones for completion of certain activities. This stipulation is presented as a resolution of the OSC and does not constitute an admission by PG&E of any fact alleged in the OSC or of any non-compliance or other violation of any order, rule, regulation or law.

2. PG&E shall carry out the Compliance Plan.

3. PG&E agrees to pay a penalty of \$6 million, as follows:

a) \$3 million will be paid to the State General Fund within ten (10) days of the Commission's approval of this stipulation without modification.

b) Payment of the remaining \$3 million will be suspended pending PG&E's completion of the Compliance Plan. Upon any unexcused failure of PG&E to meet a milestone set forth in the Compliance Plan, PG&E will pay such portion of the remaining \$3 million as the Commission may find to be appropriate to the State General Fund within ten (10) days of the Commission decision finding such unexcused failure. If PG&E successfully completes the Compliance Plan, the remaining \$3 million shall be forgiven.

c) The penalty specified above does not limit the Commission's authority to impose additional penalties for any violation of law or regulations with regard to the Commission's investigation into the San Bruno pipeline rupture not related to completion of the Compliance Plan.

d) PG&E agrees it will not seek to recover any portion of the penalty from customers in rates.

4. Upon Commission approval of this Stipulation, the OSC proceeding shall be closed.

Respectfully submitted,

THE CALIFORNIA PUBLIC UTILITIES COMMISSION  By. _____ /s/ Julie Halligan Deputy Director, Consumer Protection & Safety Division	PACIFIC GAS AND ELECTRIC COMPANY  By. _____ /s/ Jane Yura Vice President, Gas Engineering & Operations
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Dated: March 24, 2011

# **ATTACHMENT 1**

## PG&E's Compliance Plan for NTSB Safety Recommendations

On January 3, 2011, the Commission directed PG&E to comply with two urgent safety recommendations from the NTSB, as follows:<sup>1</sup>

1. **Aggressively and diligently search for all as-built drawings, alignment sheets, and specifications, and all design, construction, inspection, testing, maintenance and other related records**, including those records in locations controlled by personnel or firms other than Pacific Gas and Electric Company, relating to pipeline system components such as pipe segments, valves, fittings, and weld seams for Pacific Gas and Electric Company natural gas transmission lines in class 3 and class 4 locations and class 1 and class 2 high consequence areas that have not had a maximum allowable operating pressure established through prior hydrostatic testing. **These records should be traceable, verifiable, and complete.** (P-10-2) (Urgent)
2. **Use the traceable, verifiable, and complete records** located by implementation of Safety Recommendation P-I0-2 (Urgent) **to determine the valid maximum allowable operating pressure, based on the weakest section of the pipeline or component to ensure safe operation**, of Pacific Gas and Electric Company natural gas transmission lines in class 3 and class 4 locations and class I and class 2 high consequence areas that have not had a maximum allowable operating pressure established through prior hydrostatic testing. (P-103) (Urgent) (*emphasis added*)

Safety is our highest responsibility and we intend to fully comply with, and exceed the scope of, the Commission's directives. Where the Commission's directives cover the HCA pipelines without pressure tests, we are validating the MAOPs for all 1,805 miles of HCA pipelines. We are doing so to provide assurance to the public, the Commission and ourselves that our pipelines are operating at safe MAOPs, and that our records accurately reflect the features of these pipelines. As we have said before, any record discrepancy is unacceptable to us.

To date, we have verified those HCA pipelines, as defined in the directives, which have been pressure tested, and we have aggressively and diligently searched for and collected a substantial quantity, but not all, of the records necessary to determine the valid MAOP based on the weakest section or component. To complete PG&E's compliance with these directives, we will proceed with the MAOP validation on the attached schedule.

**MAOP Validation Methodology:** For purposes of the MAOP validation, we have defined "traceable, verifiable and complete" records as original records containing information about the material properties of the mainline pipe and all pipeline appurtenances and components. Such records must be tied to the specific segment of pipe under examination and must contain information that is consistent with PG&E's procurement practices at the relevant time.

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<sup>1</sup> The Commission ratified these directives in Resolution L-410 (January 13, 2011).

For many of our older pipelines, we do not believe we will find “traceable, verifiable and complete” records of every component. Therefore, we are making assumptions about certain components, such as fittings and elbows, based on the material specifications at the time those materials were procured, sound engineering judgment, and conducting excavation and field testing of pipeline systems as appropriate. We will determine what field testing to use on a case-by-case basis from such techniques as X-ray or camera inspection of welds and measuring yield strength using Advanced Technology Corporation’s Automated Ball Indentation technique.

We will consult with Commission staff about the assumptions we are making and the basis for those assumptions as well as any field testing we propose. We will consider any recommendations made by Commission staff. We will provide the Commission staff as much notice as practical of any field testing.

The information from PG&E’s traceable, verifiable and complete documents is combined with engineering analysis and any necessary assumptions and field-testing, to create a Pipeline Features List (PFL). The PFL is a comprehensive reference of all necessary characteristics of the pipeline segment and appurtenances. The PFL will specify: (1) the weakest element of the segment of the pipeline as defined by the 49 CFR § 192.619(a)(1); (2) the criteria by which PG&E made this determination; and (3) whether this determination is based on traceable, verifiable and complete documents relating to the specific pipeline segment, or based on PG&E’s assumptions. If the determination is based on assumptions, each must be identified. The PFL also will identify all source documents for the data in the PFL, including but not limited to as-built drawings. All such documents will be available in our electronic databases. We will provide the CPUC staff with access to these databases at its request.

The PFL information is then used in the MAOP calculation. This calculation shall be based on the weakest element of the pipeline segment. Any MAOP calculation based on assumptions will be identified as such, along with all assumptions. In no case will a MAOP increase as a result of this calculation.

We understand the Commission staff is reviewing both the draft MAOP validation report and the sample PFL we attached to our March 21<sup>st</sup> supplement, and will advise us within ten (10) days if they believe we should make any changes in our approach to the MAOP validation. If the staff recommends changes, implementation may require an adjustment to our work plan since we have already started the work with the approach outlined.

We understand that completion of this Compliance Plan does not preclude the Commission from adopting new or additional safety requirements in the future.

**Reporting, Review and Authority to Reprioritize Work:** Attachment A is PG&E’s prioritization and work plan, identifying our priorities, and the schedule on which we plan to complete the MAOP validation. We will submit monthly reports to the Commission on our progress toward meeting the Commission’s directives and completing Steps 1 and 2 in all Priorities 1 through 4, and will include, for the relevant priority pipeline segments and appurtenances, the following:

- Status of “**traceable, verifiable and complete**” documentation of “**all as-built drawings, alignment sheets, and specifications, and all design, construction, inspection, testing, maintenance and other related records**” (MAOP Validation Step 1)
- Status of compilation of the PFL (MAOP Validation Step 2)
  - Identification of all assumptions made in completing the PFL
  - Identification of all field work planned, underway and executed in order to complete the PFL, and the results of all field work
- Status of PG&E’s progress in using “**the traceable, verifiable, and complete records ... to determine the valid maximum allowable operating pressure, based on the weakest section of the pipeline or component**” (MAOP Validation Step 3)
- Summary of Quality Assurance/Quality Control recommendations and resulting process changes
- Discussion of any change PG&E makes to the transmission pipeline system as a result of any of the MAOP validation work.

We will meet with the Commission staff to review each monthly report. In addition, the Commission staff is encouraged to visit our MAOP validation headquarters in Walnut Creek at any time to review our operations and progress.

The need for reprioritization may be raised and discussed at any time by either the CPUC and its staff or PG&E. If PG&E believes it needs to reprioritize any of the work in the work plan, we will meet with the Commission staff to review necessary changes and the factors behind the changes. In order to efficiently change or add to Priorities 1 through 4, the Executive Director should be delegated authority by the Commission to authorize any necessary reprioritization to the work plan contained in this Compliance Plan.

**Safety Concerns:** The fundamental goal of this exhaustive exercise is to provide the public, the Commission and ourselves with as much information as possible to be assured of our gas pipeline system safety. As part of the MAOP validation process, it is our engineers’ responsibility to raise any safety concerns they identify for appropriate immediate action. We will not wait until the MAOP validation process is complete to take any necessary action to ensure the safety of our pipelines. We have empowered our engineers to raise any issues they become aware of with their immediate supervisor, with the officer in charge of the MAOP validation work (Kirk Johnson) or through the Company’s hot line. We have a team of engineers available who are qualified to assess any situation where an employee raises a safety concern and have empowered them to take direct action as a result. Depending on the circumstances, these actions may include: reprioritization of work, pressure reduction, pressure test or other inspection, replacement or abandonment of pipe.



Attachment A  
MAOP Prioritization & Work Plan

PG&E Completion Date	Activity	Milestone/ Report <sup>1</sup>	Priority Focus	Total Miles
June 10	Complete: <sup>2</sup> <b>Search for all as-built drawings, alignment sheets, and specifications, and all design, construction, inspection, testing, maintenance and other related records</b> , including those records in locations controlled by personnel or firms other than Pacific Gas and Electric Company, relating to pipeline system components such as pipe segments, valves, fittings, and weld seams for Pacific Gas and Electric Company natural gas transmission lines in class 3 and class 4 locations and class 1 and class 2 high consequence areas that have not had a maximum allowable operating pressure established through prior hydrostatic testing.		<b>1) 152 Miles:</b> DSAW pipe 24-36” outside diameter and installed prior to 1962; Seamless pipe >24” outside diameter and installed prior to 1974	152
June 30	Complete: <sup>3</sup> <b>Determination of the valid maximum allowable operating pressure, based on the weakest section of the pipeline or component to ensure safe operation</b> , of Pacific Gas and Electric	Completion of Priority 1 MAOP Validation  File Status Report in R.11-02-019	<b>1) 152 Miles:</b> DSAW pipe 24-36” outside diameter and installed prior to 1962; Seamless pipe >24” outside diameter and installed prior to 1974	152

<sup>1</sup> Monthly Reports, and meetings to Review Progress to Plan with Commission staff, will occur within 10 days of the end of each month

<sup>2</sup> For the records search and collection, “complete” signifies that the vast majority of the records have been collected. As the process of completing the PFL proceeds, it is likely that the need for some additional records will be identified and those records will have to be located and collected.

<sup>3</sup> Completion of the MAOP validation assumes limited field work. If more field work is needed, PG&E may ask the Executive Director to use his delegated authority to approve a modification of the schedule.

Attachment A  
MAOP Prioritization & Work Plan

PG&E Completion Date	Activity	Milestone/ Report <sup>1</sup>	Priority Focus	Total Miles
	Company natural gas transmission lines in class 3 and class 4 locations and class 1 and class 2 high consequence areas that have not had a maximum allowable operating pressure established through prior hydrostatic testing.			
July 10	Complete: <b>Search for all as-built drawings, alignment sheets, and specifications, and all design, construction, inspection, testing, maintenance and other related records</b> , including those records in locations controlled by personnel or firms other than Pacific Gas and Electric Company, relating to pipeline system components such as pipe segments, valves, fittings, and weld seams for Pacific Gas and Electric Company natural gas transmission lines in class 3 and class 4 locations and class 1 and class 2 high consequence areas that have not had a maximum allowable operating pressure established through prior hydrostatic testing.		<b>2) 295 Miles:</b> ERW, SSAW, Flash and Lap Welded and all pipe with Joint Efficiency < 1 and installed prior to 1970	295
July 31	Complete: Determination of the <b>valid maximum allowable operating pressure, based on the weakest section of the pipeline or component to</b>	Completion of Priority 2 MAOP Validation  File Status	<b>2) 295 Miles:</b> ERW, SSAW, Flash and Lap Welded and all pipe with Joint Efficiency < 1 and installed prior to 1970	295

Attachment A  
MAOP Prioritization & Work Plan

PG&E Completion Date	Activity	Milestone/ Report <sup>1</sup>	Priority Focus	Total Miles
	<p><b>ensure safe operation</b>, of Pacific Gas and Electric Company natural gas transmission lines in class 3 and class 4 locations and class 1 and class 2 high consequence areas that have not had a maximum allowable operating pressure established through prior hydrostatic testing.</p>	<p>Report in R.11-02-019</p>		
<p>August 10</p>	<p>Complete: <b>Search for all as-built drawings, alignment sheets, and specifications, and all design, construction, inspection, testing, maintenance and other related records</b>, including those records in locations controlled by personnel or firms other than Pacific Gas and Electric Company, relating to pipeline system components such as pipe segments, valves, fittings, and weld seams for Pacific Gas and Electric Company natural gas transmission lines in class 3 and class 4 locations and class 1 and class 2 high consequence areas that have not had a maximum allowable operating pressure established through prior hydrostatic testing.</p>		<p><b>3) 206 Miles:</b> All remaining 619(c) documented pipe and pipe installed prior to 7/1/1970 with records still under review  <b>4) 52 Miles:</b> All pipe installed after 7/1/1970 with records still under review</p>	<p>258</p>
<p>August 31</p>	<p>Complete: Determination of <b>the valid maximum allowable operating pressure, based on the</b></p>	<p>Completion of Priority 3-4 MAOP Validation</p>	<p><b>3) 206 Miles:</b> All remaining 619(c) documented pipe and pipe installed prior to 7/1/1970 with records still under review  <b>4) 52 Miles:</b> All pipe installed</p>	<p>258</p>

Attachment A  
MAOP Prioritization & Work Plan

PG&E Completion Date	Activity	Milestone/ Report <sup>1</sup>	Priority Focus	Total Miles
	<p><b>weakest section of the pipeline or component to ensure safe operation,</b> of Pacific Gas and Electric Company natural gas transmission lines in class 3 and class 4 locations and class I and class 2 high consequence areas that have not had a maximum allowable operating pressure established through prior hydrostatic testing.</p>	<p>File Status Report in R.11-02-019</p>	<p>after 7/1/1970 with records still under review</p>	

CERTIFICATE OF SERVICE BY ELECTRONIC 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 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 March 24, 2011, I served a true copy of:

**STIPULATION RE ORDER TO SHOW CAUSE**

**[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 and I.11-02-016** with an e-mail address.

**[XX]** By U.S. Mail – by placing the enclosed 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 those parties listed on the official service list for **R.11-02-019 and I.11-02-016** without an e-mail 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 in San Francisco, California on March 24, 2011.

\_\_\_\_\_  
/s/  
TAUVELA V. U'U

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