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January 9, 2014

Mr. Michael Robertson
Gas Safety and Reliability Branch
Safety and Enforcement Division
California Public Utilities Commission
320 West 4th Street, Suite 500
Los Angeles, CA 90013

Re: California Public Utilities Commission
Final Report of Gas Incident
Oakland, California – December 10, 2013

Dear Mr. Robertson:

This letter supplements our electronic notification and initial 420 report of December 11, 2013 concerning an incident that occurred on December 10, 2013 at [Redacted] and [Redacted] in the City of Oakland.

On December 10, 2013 at approximately 0839 hours Pacific Gas and Electric (PG&E) was notified of a gas fire at [Redacted] PG&E personnel arrived on site at 0844 hours. The source of the leak was a severed 4-inch steel elbow. The elbow was retained and an analysis of the elbow was conducted. With the aid of an external contractor, PG&E's investigation indicates that external ground forces acting on the pipeline resulted in stresses that caused the fracture at the elbow. Additionally, available information from the USGS on the rate of creep of the Hayward earthquake fault in this area supports a fair amount of displacement of the fault at this location over time. A systematic review of ignition sources was also performed; the most probable source of ignition is a transitory ignition source such as a passing vehicle, static discharge or, dropped cigarette. The gas flow was shut in at 1135 hours by cutting, capping and welding the 4-inch main in 3 locations. Nineteen customers experienced gas service interruption. All affected customers were restored by 2200 hours.

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There are no injuries or fatalities and damages are less than \$50,000. This was reported to CPUC due to the presence of major Bay Area media on site.

I respectfully call your attention to the fact that accident reports are solely for the confidential use of the Commission and its staff and are not open to public inspection (PUC GO 66-C, Public Utilities Code, Section 315 and 583), except for the copy of the United States Department of Transportation (D.O.T.) Report made public to the United States D.O.T., pursuant to Commission Resolution dated February 10, 1970.

Sincerely,

/S/

Frances Yee

Attachment

CALIFORNIA PUBLIC UTILITIES COMMISSION

Report of Gas Leak or Interruption*

CPUC File No. 420 **FINAL**

Part I: CPUC CONTACT INFORMATION

Utility Name: Pacific Gas & Electric Co.	CPUC Contact: Name _____	CPUC Website _____	Recorder <input type="checkbox"/>	FAX <input type="checkbox"/>
Redacted	Date: <u>12/10/13</u>	Time: (24hr) <u>10:13</u>		
	CPUC Information Request: Written Report <input type="checkbox"/>	Sketch/Photo <input type="checkbox"/>	FD Report <input type="checkbox"/>	
	DOT Notified - Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> DOT Report Number: _____			

Part II: INCIDENT DETAILS

<u>Incident Location</u>	<u>Incident Time</u>	<u>Reported to the Utility</u>
City/County: <u>Oakland/Alameda</u>	Date: <u>12/10/13</u>	<u>12/10/13</u> Time: (24hr) <u>08:39</u>
Redacted	Time: (24hr) <u>08:00 (est.)</u>	Reported by: <u>Oakland Fire Department</u>

Reason(s) for Reporting (check all that apply)

Gas leak associated with:	Emergency action required:
Death <input type="checkbox"/> Injury <input type="checkbox"/> \$\$Damage <input type="checkbox"/> Media Coverage <input checked="" type="checkbox"/>	Traffic Rerouted <input checked="" type="checkbox"/> Area Blocked Off <input checked="" type="checkbox"/> Building Evacuated <input checked="" type="checkbox"/>
Service Interruption <input type="checkbox"/> Operator Judgment <input type="checkbox"/>	Other Emergency actions (describe) _____
Transmission Line Test Failure <input type="checkbox"/> Required Transmission Line Shutdown <input type="checkbox"/>	Release of Gas > 3 MMCF <input type="checkbox"/>

Incident Cause

Dig In Fire/Explosion Construction Defect Material Failure Corrosion Vehicle Impact Suicide
 UNKNOWN - MORE INFORMATION TO FOLLOW Other (describe) _____ External Forces _____

Escaping Gas Involvement (check all that apply)

Leak Only Fire Explosion None

Summary (Briefly describe the incident and the probable cause): On December 10, 2013 at approximately 0839 hours Pacific Gas and Electric (PG&E) was notified of a gas fire at Redacted in Oakland. PG&E personnel arrived on site at 0844 hours. The source of the leak was a severed 4-inch steel elbow. The elbow was retained and an analysis of the elbow was conducted. With the aid of an external contractor, PG&E's investigation indicates that external ground forces acting on the pipeline resulted in stresses that caused the fracture at the elbow. Additionally, available information from the USGS on the rate of creep of the Hayward earthquake fault in this area supports a fair amount of displacement of the fault at this location over time. A systematic review of ignition sources was also performed; the most probable source of ignition is a transitory ignition source such as a passing vehicle, static discharge or, dropped cigarette. The gas flow was shut in at 1135 hours by cutting, capping and welding the 4-inch main in 3 locations. Nineteen customers experienced gas service interruption. All affected customers were restored by 2200 hours. There are no injuries or fatalities and damages are less than \$50,000. This was reported to CPUC due to the presence of major Bay Area media on site.

<u>Gas Equipment Affected</u> (check all that apply)	<u>Specification of Failed Equipment</u>	<u>Injuries and Fatalities</u>
Main <input checked="" type="checkbox"/> Regulator <input type="checkbox"/> Meter <input type="checkbox"/> Valve <input type="checkbox"/> Material: Steel <input checked="" type="checkbox"/> Cast Iron <input type="checkbox"/> Service Line <input type="checkbox"/> Controls <input type="checkbox"/> Service Riser <input type="checkbox"/> Plastic <input type="checkbox"/> Copper <input type="checkbox"/> Customer Facility <input type="checkbox"/> Transmission Line <input type="checkbox"/> Other <input type="checkbox"/>	Pipe Size <u>4</u> in MAOP <u>54</u> psig Operating Pressure <u>48</u> psig	Injuries: _____ Fatalities: _____ Company: (0) (0) Other: (0) (0)
Other (describe) _____		

<u>Dig In Information</u>	<u>Estimated Damage</u>
USA notification required: Yes <input type="checkbox"/> No <input type="checkbox"/> Name of Excavator: _____	Damage to gas facilities: \$(20,000)
USA notified: Yes <input type="checkbox"/> No <input type="checkbox"/> Excavator Contact Person: _____	Other damage involving gas: \$(0)
Facilities properly marked: Yes <input type="checkbox"/> No <input type="checkbox"/> Phone: _____	Total: \$(20,000)

<u>Recovery from Incident</u>	<u>Public Agencies on Scene</u>	<u>Customer Outage</u>									
<table style="width: 100%;"> <tr> <td><input type="checkbox"/> Co Personnel on Scene</td> <td>Date: (12/10/13)</td> <td>Time (24hr): (08:44)</td> </tr> <tr> <td>Gas flow stopped</td> <td>(12/10/13)</td> <td>(11:35)</td> </tr> <tr> <td>Service restored</td> <td>(12/10/10)</td> <td>(22:00)</td> </tr> </table>	<input type="checkbox"/> Co Personnel on Scene	Date: (12/10/13)	Time (24hr): (08:44)	Gas flow stopped	(12/10/13)	(11:35)	Service restored	(12/10/10)	(22:00)	Media <input checked="" type="checkbox"/> Police <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Ambulance <input type="checkbox"/>	Customers out of service (19) Customer-hours outage (200)
<input type="checkbox"/> Co Personnel on Scene	Date: (12/10/13)	Time (24hr): (08:44)									
Gas flow stopped	(12/10/13)	(11:35)									
Service restored	(12/10/10)	(22:00)									

Part III: CPUC INVESTIGATION

Is further investigation warranted? Yes <input type="checkbox"/> No <input type="checkbox"/>	Signature of CPUC Engineer _____
Date incident investigated: _____	Field report attached? Yes <input type="checkbox"/> No <input type="checkbox"/> CPUC Inspector: _____