Attachment 1

Pacific Gas and Electric Company

Statistical Report for the Calendar Year Ending December 31, 2010

Division:	Sierra	Auditor:	Paul Penney	Date:	April 25 – 29, 2011

GO 112-E Section 126 - REPORTABLE PRESSURE UPRATING ANTICIPATED IN 2011

Line & Location	Diameter (Inches)	Length (Miles)	Present Pressure (PSIG)	Proposed Pressure (PSIG)
NONE				

192.227 and 192.285 - QUALIFICATION OF WELDERS AND PERSONS TO PERFORM PLASTIC FUSION

Number Qualified to:	2009	2010
Oxy-Acetylene Weld	16	15
Arc Weld	6	4
Perform Plastic Fusion	34	32

191.11; 192.455 and 192.457 - SYSTEM STATISTICS OF PIPELINES AND SERVICES

Transmission Main	Installed before 8/1/71		Installed after 7/31/71		Total Pipe	
	2009	2010	2009	2010	2009	2010
Coated Steel	159.2	159.16	91.01	92.93	250.21	252.09
Bare Steel	0.07	0.07	0.0	0.0	0.07	0.07
Total Pipe	159.27	159.23	91.01	92.93	250.28	252.16

Total Transmission Main Cathodically Protected	2008: All	2009: All

Distribution Main	Installed before 8/1/71		Installed after 7/31/71		Total Pipe	
	2009	2010	2009	2010	2009	2010
Coated Steel	451.39	449.60	460.57	462.31	911.97	911.92
Bare Steel	3.92	3.73	0.14	0.14	4.06	3.88
Plastic	0.92	0.92	1720.67	1723.96	1721.6	1724.88
Cast Iron	0.0	0.0	0.0	0.0	0.0	0.0
Copper	0.0	0.0	0.0	0.0	0.0	0.0
Total Pipe	456.23	454.25	2181.38	2186.41	2637.63	2640.68

Total Distribution Main Cathodically Protected	2009: 912.60	2010: 912.66

Number of Services	2009: 181620	2010: 181813

SB_GT&S_0069204

Pacific Gas and Electric Company

Statistical Report for the Calendar Year Ending December 31, 2010

192.465 - EXTERNAL CORROSION MONITORING

	2009	2010
Number of Cathodic Protection Areas	131	131
Number of Rectifiers	95	95
Number of Test Stations	365	366
Isolated Mains & Services - Total	53*	55*
Isolated Mains & Services - Number Monitored	7*	5*
Number of Reverse Current Switches	-	-
Number of Diodes	-	-
Number of Interference Bonds	-	-

* Need to combine with Colusa District numbers for total # Monitored by Marysville Office

192.625 - ODORIZATION

☒ See separate report on Page 3
☐ See staff report
☐ None in Division

192.627 - HOT TAP QUALIFICATION

Number of Personnel Qualified to Hot Tap	2009: 33	2010: 32

192.703 - LEAK ACTIVITY DURING YEAR

	Number of Leaks Found		Number of Leaks Repaired		Number of Leaks Repaired, Checked, Downgraded, or Deleted LATE	
	2009	2010	2009	2010	2009	2010
Grade 1 Leaks	377	204	380	206	0	-
Grade 2 Leaks	3,489	411	3,183	456	15	8
Grade 3 Leaks	792	580	1	10	-	-
Total Leaks	4,658	1,195	3,564	672	15	8

MAINTENANCE STATISTICS

ITEM	2009	2010
GO 112-E Section 183 Number of Pipe or Bottle Holders	1	1
192.739 Number of Pressure Limiting or Regulating Stations	169	171
192.743 Number of Pressure Relief Devices	131	131
192.745 Number of Transmission Valves indicated by 192.745	417	419
192.747 Number of Distribution Valves indicated by 192.747	112	112
192.749 Number of Vaults 200 Cubic Feet and over	47	47

SB_GT&S_0069205

Pacific Gas and Electric Company

Statistical Report for the Calendar Year Ending December 31, 2010

192.625 ODORIZATION

NON-ODORIZED LINES:

Line Number	Length in Miles	Class Location
NONE		

ODORIZERS:

Location	Method	Odorant Type	Injection Rate Lb./MMCF	Solubility in Water Parts/100
CAMP FAR WEST STATION	BYPASS ODORIZER	50% TBM/50% THT	N/A	NEGLIGIBLE PER MSDS

SAMPLING POINT LOCATIONS:
AUBURN (END OF L-173)
NEVADA CITY (END OF L-202)

SB_GT&S_0069206

Attachment 2

Sierra Division
Internal Reveiw of Gas Maintenance Records
Date: 4/22/2011

The following summary identifies PG&E's internal findings and the corrective and preventative actions taken in response to PG&E's review of Sierra Division's 2009 and 2010 Gas Maintenance activities.

Topic	# of Records Reviewed	Finding(s)	Corrective Action To Close Findings	Action to Prevent Recurrence	Actual or Anticipated Completion Date
Leak Survey Distribution	1,335 Maps	1.PG&E personnel identified 35 maps in the 2010 5-year Leak Survey that exceeded their compliance window due to inclement weather limiting available survey days. Refer to filed memo in 2010 5-year Leak Survey book for details.	1. PG&E personnel leak surveyed the remaining facilities between April 2010 and July 2010, completing the last "cannot get in" services on 7/16/10.	1. Sierra Division implemented a new 5-year leak survey schedule (2011-2015) to avoid leak surveys in January and to minimize the volume of maps surveyed in February and March.	1. Corrective: 7/16/10 Preventative: 3/31/11
		2. During an ongoing review process by the Leak Survey Supervisor and Mapper, PG&E personnel identified facilities on 2 maps not surveyed after the map was initially completed. (2345-B8 in 2009 Annual, 2214-C3 in 2010 5-Year)	2. PG&E personnel leak surveyed the facilities associated with the 2 maps.	2. Sierra Division implemented a new leak survey schedule (2011-2015) that provides sufficient time to correct omitted maintenance identified by the supervisor or mapping review.	2. Corrective: 9/24/10 Preventative: 3/31/11
		3. During its internal review, PG&E personnel identified facilities on seven 5-year Leak Survey maps that were surveyed outside the compliance window. Refer to filed memo in 2009 and 2010 5-year Leak Survey books for details.	3. Sierra Division confirmed that all installed facilities were leak surveyed in 2009 and 2010.	3. Sierra Division implemented a new scheduling process to ensure that newly installed facilities (posted after 5/1/08) are leak surveyed within the compliance window.	3. Corrective:3/5/11 Preventative: 4/18/08
Leak Survey Transmission	562 Sequences (2009) 562 Sequences (2010)	1. During its internal review, PG&E identified 5 leaks that were not entered in IGIS at the time they were found. (Leak 09-00490; Leak 10-00070; Leak 10-00073; Leak 10-00074; and Leak 10-00071)	1. The Leak Surveyor created Leak Logs based on recorded information on the map and sign-off sheet, which enabled the Mapper to enter the leaks into IGIS.	1. The Sierra Division Leak Survey Supervisor initiated a weekly documentation review with each surveyor to confirm the leak survey sign-off sheet matches the Leak Survey Log. In addition, the supervisor now retains a copy of the Leak Survey Log after it is sent to mapping, and cross-references that log when reviewing the completed Transmission Leak Survey book.	1. Corrective: 3/24/11 Preventative: 3/1/11
		1. PG&E personnel determined that the monitor at regulator station CM-01 was set 1 psig above the maximum in WP 4540-01 (Attach 4).	1. PG&E personnel lowered the monitor set point.	1. PG&E released new Form 62-6271 (Data Sheet), which specifically identifies the required set pressure for each regulator and monitor per WP 4540-01. Sierra Division Gas Engineering reviewed all regulator station folders to confirm that Form 62-6271 (Data Sheet) has the correct regulator and overpressure protection settings, and complies with the limits established in WP 4540-01 (Attach 4).	1. Corrective: 9/15/09 Preventative: 12/1/09

Sierra Division
Internal Reveiw of Gas Maintenance Records
Date: 4/22/2011

Topic	# of Records Reviewed	Finding(s)	Corrective Action To Close Findings	Action to Prevent Recurrence	Actual or Anticipated Completion Date
District Regulator Stations	219	2. PG&E personnel determined that the regulator at regulator station CM-01 was set above the maximum in WP 4540-01 (Attach 4).	2. PG&E personnel lowered the monitor set point.	2. PG&E released new Form 62-6271 (Data Sheet), which specifically identifies the required set pressure for each regulator and monitor per WP 4540-01. Sierra Division Gas Engineering reviewed all regulator station folders to confirm that Form 62-6271 (Data Sheet) has the correct regulator and overpressure protection settings, and complies with the limits established in WP 4540-01 (Attach 4).	2. Corrective: 10/30/09 Preventative: 12/1/09
		3. During its internal review, PG&E identified 3 regulator stations with regulators set 1 psig above the maximum in WP 4540-01 (Attach 4). (R125, R126, MRC76)	3. PG&E personnel lowered the monitor set point.	3. Sierra Division Gas Engineering reviewed all regulator station folders to confirm that Form 62-6271 (Data Sheet) has the correct regulator and overpressure protection settings, and complies with the limits established in WP 4540-01 (Attach 4).	3. Corrective: 4/15/11 Preventative: 4/15/11
Relief Valves	193	During its internal review, PG&E identified no findings regarding Relief Valves.			

Sierra Division
Internal Reveiw of Gas Maintenance Records
Date: 4/22/2011

Topic	# of Records Reviewed	Finding(s)	Corrective Action To Close Findings	Action to Prevent Recurrence	Actual or Anticipated Completion Date
Distribution Emergency Valves	112	1. PG&E personnel identified 5 valves that were not maintained after their associated regulator stations were deactivated and removed from the maintenance schedule. (V-1, V-3, V-4, V-5 @ Redacted; V-20 @Redacted)	1. PG&E personnel maintained the valves per WP 4430-04.	1. Sierra Division's T&R Supervisor updated the SAP Work Management Plan to ensure these valves were scheduled for regular annual maintenance.	1. Corrective: 1/27/11 Preventative: 1/27/11
Transmission Valves	499	1. During its internal review, PG&E identified 7 power-actuated valves that were not lubed every 6 months as required in WP 4430-04. (V-3.42 @ Baseline Station; V-16 @ Redacte V-6, V-25, V-52, V-53, V-63 @ Redacte)	1. PG&E personnel updated the maintenance schedule in SAP to ensure valve maintenance occurs on a semi-annual basis.	1. Sierra Division's T&R Supervisor updated the SAP Work Management Plan to schedule these valves for semi-annual maintenance.	1. Corrective: 4/18/11 Preventative: 4/18/11
		2. During its internal review, PG&E identified 1 power-actuated valve that was not lubed every 2 weeks as required in WP 4430-04. (regulator V-15 @ Redact)	2. PG&E personnel started to lube the valve bi-weekly.	2. Sierra Division's T&R Supervisor updated the SAP Work Management Plan to schedule this valve for bi-weekly maintenance.	2. Corrective: 4/14/11 Preventative: 4/18/11
Corrosion Control	228 Bi-Monthly Areas	PG&E identified no findings regarding CP Bi-monthly Areas.			
	130 Annuals	PG&E identified no findings regarding CP Annual Areas.			
	31 Resurveys	PG&E identified no findings regarding CP Resurveys.			
	260 Rectifiers	PG&E identified no findings regarding CP Rectifiers.			
	140 Casing Tests	PG&E identified no findings regarding Casing Tests.			
	18 - 10%ers	PG&E identified no findings regarding CP 10%ers.			
	Equipment Calibrations	PG&E identified no findings regarding CP Equipment Calibrations.			
CGI Calibrations	65	1. PG&E identified 5 CGI instruments that were not calibrated in April 2009 when the responsible employee transferred to another department. (CY1257, AU1017, 13874, 13729, 14898)	1. PG&E personnel calibrated the CGI instruments.	1. Sierra Division in Q3-2011 will use SAP Work Management to schedule instrument calibration and to generate compliance reports for any missed work.	1. Corrective: 5/14/09 Preventative: Q3-2011
HFI, RMLD, OMD Calibrations	26	During its internal review, PG&E identified no findings regarding HFI, RMLD, or OMD Calibrations.			
Instrument Calibrations	140	During its internal review, PG&E identified no findings regarding Instrument Calibrations.			

Sierra Division
Internal Reveiw of Gas Maintenance Records
Date: 4/22/2011

Topic	# of Records Reviewed	Finding(s)	Corrective Action To Close Findings	Action to Prevent Recurrence	Actual or Anticipated Completion Date
Leak Repair	98 (2009) 263 (2010)	1. PG&E identified 9 riser thread Grade 2+ leaks that were repaired late due to lost original A-forms. (09-90386, 09-90518, 09-90646, 09-90713, 09-02116, 09-04516, 09-04535, 09-10034, 09-90367)	1. PG&E personnel repaired each leak.	1. Sierra Division implemented a new workflow process, in which Sierra Division Mapping forwards the A-forms (within 5 months before repair due date) directly to the M&C Coordinator to plan and schedule the repair in SAP.	1. Corrective: 12/30/09 Preventative: 8/1/10
		~~2. PG&E identified one Grade 1 leak that was responded late. (09-00151)~~	~~2. PG&E dispatched a Leak Surveyor and crew to repair the leak.~~	~~2. PG&E released Utility Procedure TD-4110P-13 "Outside Gas Leak and Odor Investigation", which identifies belowground leak investigation procedures for qualified Field Service or M&C personnel.~~	~~2. Corrective: 12/30/09 Preventative: 11/10/10~~
		3. PG&E identified 2 riser thread Grade 2+ leaks that were downgraded late in 2009 as a result of lost/misplaced original paperwork. (09-90268, 09-90365)	3. PG&E rechecked the risers, and determined that no leak exists.	3. Sierra Division implemented a new workflow process, in which Sierra Division Mapping forwards the A-forms (within 5 months before repair due date) directly to the M&C Coordinator to plan and schedule the repair in SAP.	3. Corrective: 12/17/09 Preventative: 8/1/10
		4. PG&E identified four Grade 2 leaks that were rechecked late in 2009. (08-10025; 08-00164; 08-10188; and 08-00807).	4. PG&E rechecked each leak.	4. Sierra Division's Sr. Gas Engineer reviewed the Auburn Monthly Gas Leak Reports (IGIS) checklist with Mapping. The checklist includes steps to print a Recheck Log for all districts each month, and to confirm Recheck Logs are returned before the end of the month.	4. Corrective: 12/9/09 Preventative: 4/20/11
		5a,b. PG&E identified three Grade 2+ and one Grade 2 leaks that were repaired late in 2010 due to misplaced/lost original Leak Logs and A-form. (09-10002, 09-10003, 09-10005, 09-93787)	5a. PG&E personnel repaired three Grade 2+ leaks upon finding the misplaced Leak Logs.	5a. PG&E changed its process from the QC Assessment Supervisor hand-delivering paperwork to the Leak Survey Supervisor to now scanning Leak Logs and related paperwork directly to the responsible Mapping group.	5a. Corrective: 7/16/10 Preventative: 6/1/09
			5b. PG&E personnel repaired one Grade 2 leak.	5b. PG&E implemented a new A-form, in which the leak's Repair Compliance Date is printed by IGIS on the front of the A-form.	5b. Corrective: 9/24/10 Preventative: 3/14/11
		6a,b. PG&E identified two riser thread Grade 2+ leaks and one Grade 2 leak that were rechecked late in 2010 due to misplaced/lost original Leak Logs. (09-10001, 09-10006, 09-04606)	6a,b. PG&E personnel rechecked the risers, and determined that no leak exists.	6a. Sierra Division implemented a new workflow process, in which Sierra Division Mapping forwards the A-forms (within 5 months before repair due date) directly to the M&C Coordinator to plan and schedule the repair in SAP.	6a. Corrective: 7/16/10 Preventative: 6/1/09

Sierra Division
Internal Reveiw of Gas Maintenance Records
Date: 4/22/2011

Topic	# of Records Reviewed	Finding(s)	Corrective Action To Close Findings	Action to Prevent Recurrence	Actual or Anticipated Completion Date
				6b. Sierra Division's Sr. Gas Engineer reviewed the leak survey review process with Sierra Gas Mapping to ensure that any new leak identified on the map matches those documented on the Daily Leak Survey Log and to confirm that leaks are entered in IGIS.	6b. Corrective: 12/28/10 Preventative: 4/20/11
		7. During its internal review, PG&E identified one Grade 2 riser threaed leak that was rechecked late in 2010, because the leak was not identified on the Leak Survey Log and never entered in IGIS. (09-01195)	7. PG&E personnel repaired the leak.	7. Sierra Division's Sr. Gas Engineer reviewed the leak survey review process with Sierra Gas Mapping to ensure that any new leak identified on the map matches those documented on the Daily Leak Survey Log and to confirm that leaks are entered in IGIS.	7. Corrective: 4/19/11 Preventative: 4/20/11
		8. During its internal review, PG&E identified 4 leak repairs where a 100 psig test was not performed for a disconnected service. (09-93680, 10-04177, 10-03056, 10-03061)	8. PG&E personnel returned and tested each service at 100 psig for 5 minutes.	8. Sierra Division's Construction Supervisor tailboarded gas employees on leak repair findings discovered during the internal review and instructed Sierra Division gas employees that a disconnected service must be air tested from the point of disconnection to the riser valve.	8. Corrective: 3/22/11 Preventative: 3/11/11
		9. During its internal review, PG&E identified 5 leak repairs where an excess flow valve was not installed as required in GIB 323. (10-20015, 10-20019, 10-00001, 10-01040, 10-04042)	9. PG&E personnel returned and installed an excess flow valve at these five locations.	9. Sierra Division's Construction Supervisors tailboarded GIB 323 to gas employees.	9. Corrective: 4/22/11 Preventative: 2/1/11
		10. During its internal review, PG&E identified 1 leak repair that was made by re-firing an existing electrofusion tee cap in service. After discussions with the Plastic Committee, the Distribution Specialist confirmed that re-firing an electrofusion fitting installed by another crew is not approved since there is no way to know how may times the fitting was fired already.	10. PG&E personnel removed the tee by installing a short section of main and new tee.	10. Sierra Division's Construction Supervisor explained to affected Sierra Division gas employees that a previously installed electrofusion fitting cannot be "re-fired" and used.	10. Corrective: 3/14/11 Preventative: 3/14/11
Deactivation	1	During its internal review, PG&E identified no findings regarding Deactivations.			
Odorization	24	During its internal review, PG&E identified no findings regarding Odorization.			

Sierra Division
Internal Reveiw of Gas Maintenance Records
Date: 4/22/2011

Topic	# of Records Reviewed	Finding(s)	Corrective Action To Close Findings	Action to Prevent Recurrence	Actual or Anticipated Completion Date
Patrols	133	1. PG&E personnel determined that ground patrol for 1 pipeline was performed 3 days late in Q2-2009. (District 10 DFM)	1. PG&E personnel patrolled this pipeline.	1. Sierra Division's T&R Supervisor reorganized the patrol binder to tab each pipeline group and added a master patrol schedule in the front. The supervisor also reviewed the binder contents and compliance due dates with the affected Sierra Division T&R group.	1. Corrective: 7/22/09 Preventative: 8/11/09
		2. PG&E personnel determined that ground patrols for 6 pipelines were performed late in Q2-2010. (District 10 DFM, Greenleaf I DFM, Greenleaf II DFM, South Sutter DFM, Feather River DFM, Algodon DFM)	2. PG&E personnel patrolled these pipelines.	2. Sierra Division's T&R Supervisor separated the patrol forms into two separate binders, and created two entries in the FM scheduling tool to represent each Patrol Binder.	2. Corrective: 8/24/10 Preventative: 9/1/10
Emergency Plan	1	During its internal review, PG&E identified no findings regarding emergency plans.			
Emergency Zones	3	During its internal review, PG&E identified no findings regarding emergency zones.			
Atmospheric Corrosion	8	During its internal review, PG&E identified no findings regarding atmospheric corrosion.			
MAOP	158	During its internal review, PG&E identified no findings regarding MAOP.			
Joiner Qualification	154	During its internal review, PG&E identified no findings joiner qualification.			

Attachment 3

Redacted

CONFIDENTIAL - Provided Pursuant to P.U. Code §583

05 937

Pacific Gas and Electric Company

Leak Survey, Repair, Inspection, and Gas Quarterly Incident Report (Form "A")

62-4060 (Rev 3/08)
Gas T&D
Utility Standard
S4110

INITIAL LEAK DATA

Leak Number (Year - Series - SFX): 09 - 0015 1 - 1
USA Ticket #: 2504966
Valid Date (Month - Day - Year): 08 - 17 - 09
Date Reported (Month - Day - Year): 08 - 14 - 09 (03-17-09)
Time Reported: 1125 (24 hr Time) 0945
PCC Number: 12055
Response Date (Month - Day - Year): 08 - 17 - 09 (04-27-11)
Response Time: 0845 (24 hr Time)
Paved Wall-To-Wall: Yes ☐ No ☑
Moratorium Expire Date:
SAP Recheck Order #:
SAP Repair Order #: 411366399

Address: Between Redacted City: Yuba City

Description of Reading Location: Service Tee

Re dac 04-27-11

REPORTED BY: ☒ Call-In ☐ Mobile Survey ☐ Foot Survey ☒ Other Employee[b]

SURFACE OVER LEAK: ☐ Concrete ☐ Asphalt ☒ Unsurfaced ☐ Other

READINGS PPM	% LEL	% GAS	Instr[a]	Grade[b]	2% or Less[c] or Suspect Copper (S)	Down Grade Via Vent (Yes/No)	DATE	Time (24 hr Time)	OPERATOR LAN ID	UNIT SERIAL NUMBER (Last 4 Digits)	LOCATION REMARKS (Not needed, if the same as previous)
		10	C	1	F		02-17-09	0845	Redacted	9405	

PRIORITY 2+ REQUESTED REPAIR DATE (Only needed if less than 90 days) (Repair required within 90 calendar days)

a Instrument Type: Enter H for Hydrogen Flame Ionization, C for Combustible Gas Indicator, or V for Visual.

b Enter Grade or enter 2+ for Priority Grade 2. Enter 0 (zero) if no leak is found. **If a competent first responder from other than M&C determines that the leak is non-hazardous, enter as a Grade 2+. The % Gas will be zero, the instrument will be "V" and the 2% reason code will be "H". Use the next line below to upgrade or downgrade the leak.**

c 2% or less reason code is required if leak is graded as 1, 2+, or 2:
A-Wall to wall and traveling, **B**-Next to, at or under building, **C**-Odor and next to public gathering location, **D**-In foreign structure, **E**-Audible and/or visible,
F-On facility in extremely poor condition, **G**-At least second customer call out, **H**-Leak is reported as 0% Gas Visual,
J-Leak within the scope of work by others, **S**–Leak is suspected to be on a copper service

MAPPING DATA

Leak Location Map — Wall Map: 2153 Plat: T 8 — Federal Land ☐ Yes ☒ No
Recorded Location Map — Wall Map: 2153 Plat: T 8 — Block: 1
Normally Cathodically Protected ☐ Yes ☐ No CPA:
MOP (TP only)
NOP (All Systems)

SYSTEM PRESSURE (MAOP)
R'qrd for Grade1, 2, & 2+ Downgrades to Grade 0
☐ LP(≤10.5" WC) ☐ SHP(≤ 25 psig)
☒ HP(≤ 60 psig) ☐ TP(>60 psig)
57 [redacted] 00

Year Inst. TP Line # Mile Post: Original Job # (TP Only)

For Leaks On Services: Main Connected to Service ☐ Cast Iron ☐ Plastic ☒ Steel Installation Year of Main 1967

PIPE DATA

LEAK SOURCE:
☐ Bell Joint
☒ Body of Pipe
☐ Clamp
☐ Drip
☐ Encapsulation
☐ Fitting
☐ Fusion Joint
☐ Girth Weld
☐ Longitudinal Weld
☐ Mechanical Joint
☐ Plastic Tee Cap
☐ Other Welds
☐ Regulator
☐ Riser
☐ Tap Connection
☐ SS Fitting in Plastic System
☐ Valve
☐ Unknown
☐ Other

LEAK CAUSE:
☐ Atmospheric Corrosion
☐ Cast Iron Fracture
☐ Construction Defect
☐ Damage by Electrical Facility
☐ Damage by Heavy Rains/Flood
☒ Damage by Earth Movement
☐ Damage by 3rd Party
☐ External Corrosion
☐ Internal Corrosion
☐ Stress Corrosion Cracking
☐ Material Failure
☐ Plastic Crack Failure
☐ Plastic Embrittlement
☐ Vandalism
☐ Structure Fire
☐ Vehicle
☐ Incorrect Operation
☐ Equipment Malfunction
☐ Previously Damaged
☐ Lightning
☐ Weld Failure
☐ Unknown
☐ Other

LINE USE:
☐ Distribution Main
☐ Gathering
☒ Single Service
☐ Branch Service
☐ Transmission

LINE MATERIAL:
☐ Copper
☐ Steel/Wrought Iron
☐ Cast/Ductile Iron
☒ Aldyl A (Tan or Gray)
☐ PE2406 (Yellow or Orange)
☐ PE2406/2708 (Yellow)
☐ PE 3408 (Black)
☐ PE 4710 (Black)
☐ Other Plastic
☐ Other

Line Size: 0.50 Line Above Ground ☐ Yes ☒ No Internal Liner ☐ Yes ☒ No Line Inserted ☐ Yes ☒ No
High Consequence Area ☐ Yes ☐ No (Transmission Only) EFV Installed ☐ Yes ☒ No EFV Operated ☐ Yes ☒ No
Incident Report #: Material Problem Report #:

AUG 14 2009

SB_GT&S_0069215

REPAIR DATA

Repair Location @SRVC TEE TO 2050 MTR # 29780322 LEAK @ TRANSITION POINT ON TEE

☐ Yes ☐ No Pipeline Engineer Consulted — Repair Remarks

Repaired By: Redacted — Repair Date 08-17-09 — Repair Time 1515 — Pipe-to Soil (mV) (External Corrosion Only)

REPAIR CODE:

☐ Bell Joint Seal	☐ Mechanical Repair Fitting	☐ Replace Valve > or = 2-inch	☐ Fill Weld	☐ Clockspring
☐ Bell Joint Clamp	☐ Replace Dist Main < 100 ft	☐ Replace Plastic Tee Cap	☐ Patch Weld	☐ Aquawrap
☐ CI Repair Sleeve	☐ Replace Dist Main > or = 100 ft	☐ Tighten Cap/Bolt	☐ Direct Deposition Weld	☐ Other
☐ BJ Permabond	☐ Deactivated Entire Service	☐ Aldyl Electrofusion Overcap	☐ Welded Sleeve/Can	
☐ Deactivate TP Main	☐ Deactivated Partial Service	☐ Skinner Clamp	☐ Welded Save-A-Valve	
☐ Replace TP Main	☐ Replace Entire Service	☐ SS Clamp w/Anode	☐ Type A Sleeve	
☐ Deactivate Dist Main (1 foot or more)	☒ Replace Partial Service	☐ Soap and/or Tape	☐ Type B Sleeve	
	☐ Replace Valve < 2-inch	☐ Tee Fused Over Defect	☐ Grinding	

SIZE INSTALLED: 0.50 — REPLACED WITH: ☒ STEEL ☐ PE2406/2708 (Yellow) ☐ PE 4710 (Black) — ☐ Copper Entirely Replaced

Field Reviewed By Redacted — Date 08-19-09 — Post Repair Check ☐ Yes ☒ No — Date

Mapping Reviewed By: Redacted — Date 08-20-09 — Posting Required ☐ Yes ☒ No

GENERAL INSPECTION DATA

Date: 08-17-09 — Inspected by LAN ID: Redacted — Line Use: ☐ Distribution Main ☐ Gathering ☒ Single Service ☐ Branch Service ☐ Transmission

LINE MATERIAL
- ☐ Steel/Wrought Iron
- ☐ Cast/Ductile Iron
- ☐ Copper
- ☒ Aldyl-A (Tan or Gray)
- ☐ PE 2406 (Yellow or Orange)
- ☐ PE 2406/2708 (Yellow)
- ☐ PE 3408 (Black)
- ☐ PE 4710 (Black)

SOIL TYPE
- ☒ Clay
- ☐ Rock
- ☐ Sand
- ☐ Loam
- ☐ Wet
- ☐ Exposed Facility
- ☐ Other

For TP Only SOIL RESIST (ohm-cm)
- ☐ 0 - 1,000
- ☐ 1,000 - 2,000
- ☐ 2,000 - 5,000
- ☐ 5,000 - 10,000
- ☐ >10,000

SURFACE OVER PIPE
- ☐ Concrete
- ☐ Asphalt
- ☒ Soil (Previously Unsurfaced)
- ☐ Exposed
- ☐ Other

FEET EXPOSED 4
COVER ON PIPE (Inches) 28
INTERNAL LINER ☐ Yes ☒ No
PAVED WALL TO WALL ☐ Yes ☒ No
NEAR PUBLIC ASSEMBLY ☐ Yes ☒ No

Line Size 0.50

METALLIC PIPE CONDITION

COATING TYPE ☐ Bare/None ☐ Paint ☐ Single Wrap ☐ Somastic ☐ Tar ☐ Epoxy ☐ Tape ☐ Double Wrap ☐ Plastic Coated ☐ Other

COATING CONDITION ☐ Excellent ☐ Fair ☐ Good ☐ Poor

CIRCUMFERENTIAL WELD CONDITION (Visual) ☐ Acceptable ☐ Cracked ☐ High/Low Observed ☐ Dimensions not in tolerance (See Numbered Document D-20 or D-22)

LONG SEAM ☐ DSAW ☐ ERW ☐ AO Smith ☐ Spiral ☐ SSAW ☐ SMLS ☐ LAP ☐ Flash

EXTERNAL INSPECTION

RUST ☐ None ☐ Light ☐ Heavy — WALL THICKNESS (Req. for TP) (inches) — WALL THICKNESS MEASURED ☐ Yes ☐ No

PITTING ☐ None ☐ Light ☐ Heavy — MAX. PIT DEPTH (Req. for TP) (inches) — GRAPHITIZED (CAST IRON) ☐ Yes ☐ No

GOUGING ☐ None ☐ Light ☐ Heavy — MAX. GOUGE DEPTH (Req. for TP) (inches)

INTERNAL INSPECTION

RUST ☐ None ☐ Light ☐ Heavy

PITTING ☐ None ☐ Light ☐ Heavy — MAX. PIT DEPTH (Req. for TP) (inches)

PLASTIC PIPE CONDITION

PRINTLINE VISIBLE ☐ Yes ☒ No

PIPE MANUFACTURER (LOCATED ON PIPE) ~~CENTRAL~~ ALDYL-A — MANUFACTURE DATE __/__/__ (MM/DD/YY) — LOCATING WIRE ☒ Good ☐ Bad ☐ None

GOUGING ☒ Yes ☐ No — UNDER STRESS/BENT ☒ Yes ☐ No — DISCOLORING TO GRAY ☐ Yes ☒ No — CRACKING ☒ Yes ☐ No — IN CONTACT WITH HARD OBJECTS ☒ Yes ☐ No

ESTIMATE GOUGE DEPTH ☒ <10% ☐ 10-50% ☐ >50% — VISUAL BEAD APPEARANCE (SEE NUMBERED DOCUMENT D-21) ☐ Acceptable ☐ Unacceptable — TEE CAP CRACKING ☐ Yes ☒ No

GAS QUARTERLY INCIDENT DATA

Damaging Party _____ Address _____ City _____

Damaging Party Working For PG&E ☐ Yes ☐ No — Zip Code _____

Phone (___) ___-____

INJURED: EMPLOYEES ____ OTHERS ____ — DAMAGE $____ — # Cust. Interrupted ____ — # Cust. Hours ____ — FIRE ☐ Yes ☐ No — EXPLOSION ☐ Yes ☐ No

FATAL: EMPLOYEES ____ OTHERS ____ — Media ☐ Yes ☐ No — Media Type ☐ TV ☐ Radio ☐ Newspaper Name/Channel: ____

DOT REPORTABLE (Fatality, In-patient Hospitalization, ≥$50K Property Damage) ☐ Yes ☐ No — CPUC REPORTABLE (Major News Media) ☐ Yes ☐ No

SB_GT&S_0069216

LOCATION SKETCH

REQUIRED for new or returned to service segments of main and/or service:	(if any fittings are used, then text and/or sketch must show location)	WELDED BY: Date:
☒ On-Site Test ☐ Pre-Test TESTED AT 100 PSIG FOR 5 Hours/Minutes TEST in accordance with A-34 BY BP DATE 8-17-09 TEST QUALIFIES PIPE FOR - 260 PSIG MAOP	TYPE OF PLASTIC MATERIAL INSTALLED Manufacturer Name (Polypipe, US Poly, Performance, or KWH) US POLY 01-02-07 MFG. DATE (MM/DD/YY) __/__/__ See Numbered Document A-93	WELDING INSPECTED PER PG&E NUMBERED DOCUMENT D-40 BY: Date: INSPECTOR

COMMENTS: LEAK @ TRANSITION POINT PL TO STL TEE / Replace 1' PL PIPE
ILLIMINATE STRESS @ TRANSITION

A sketch is required for all repairs (or directions as to where to find the sketch is required, if it is located on another record).

Redacted

Please Note: EMS Markers are to be installed for Deactivated Facilities and where plastic is found without wire. All EMS markers shall be clearly dimensioned.

SB_GT&S_0069217

Attachment 4

PG&E
Employee Transcripts

Date: 4/26/2011 Page: 1

Selection Criteria:

Corp ID: Reda **Employee Type:** **Job Code:**
Employee Name: **Org:** **Course Type:**OQ
PCC: **Date From:** **Date To:**

Employee Name: Collins, Ronald **Corp ID: RSCH**
Org: M&C Area 1 GC Gas Constr **PCC: 11851**

Course Code	Course Name	Course Type	Status	Status Date
OQ02-01.00	Mechanical Repairs - Steel	Operator Qualification	Transitional Qual	12/3/2001
OQ02-01.00	Mechanical Repairs - Steel	Operator Qualification	Subsequent Qual	2/17/2005
OQ02-01.00	Mechanical Repairs - Steel	Operator Qualification	Subsequent Qual	6/2/2010
OQ02-03.00	Pipe Squeezing Steel	Operator Qualification	Transitional Qual	12/3/2001
OQ02-03.00	Pipe Squeezing Steel	Operator Qualification	Subsequent Qual	2/17/2005
OQ02-03.00	Pipe Squeezing Steel	Operator Qualification	Subsequent Qual	6/2/2010
OQ02-04.00	Pipe Squeezing - Plastic	Operator Qualification	Transitional Qual	12/3/2001
OQ02-04.00	Pipe Squeezing - Plastic	Operator Qualification	Subsequent Qual	2/17/2005
OQ02-04.00	Pipe Squeezing - Plastic	Operator Qualification	Subsequent Qual	6/2/2010
OQ02-05.00	Pipe Squeezing - Plastic (1/2" and 1")	Operator Qualification	Transitional Qual	12/3/2001
OQ02-05.00	Pipe Squeezing - Plastic (1/2" and 1")	Operator Qualification	Subsequent Qual	2/17/2005
OQ02-05.00	Pipe Squeezing - Plastic (1/2" and 1")	Operator Qualification	Subsequent Qual	6/2/2010
OQ02-06.00	Abandonment or Deactivation Pipeline Facilities	Operator Qualification	Transitional Qual	12/3/2001
OQ02-06.00	Abandonment or Deactivation Pipeline Facilities	Operator Qualification	Subsequent Qual	2/17/2005
OQ02-06.00	Abandonment or Deactivation Pipeline Facilities	Operator Qualification	Subsequent Qual	6/2/2010
OQ02-07.00	Pipeline Replacement	Operator Qualification	Transitional Qual	12/3/2001
OQ02-07.00	Pipeline Replacement	Operator Qualification	Subsequent Qual	2/17/2005
OQ02-07.00	Pipeline Replacement	Operator Qualification	Subsequent Qual	6/2/2010
OQ03-01.00	Distribution Pipe Coatings -- Tape / Paint	Operator Qualification	Transitional Qual	12/3/2001
OQ03-01.00	Distribution Pipe Coatings -- Tape / Paint	Operator Qualification	Subsequent Qual	2/17/2005

PG&E
Employee Transcripts

Date: 4/26/2011 Page: 2

Selection Criteria:

Corp ID:rsch **Employee Type:** **Job Code:**
Employee Name: **Org:** **Course Type:**OQ
PCC: **Date From:** **Date To:**

Employee Name: Redacted **Corp ID:** Redacted
Org: M&C Area 1 GC Gas Constr **PCC:**

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Course Code	Course Name	Course Type	Status	Status Date
OQ03-01.00	Distribution Pipe Coatings -- Tape / Paint	Operator Qualification	Subsequent Qual	6/2/2010
OQ03-02.00	Transmission Pipe Coatings -- All	Operator Qualification	Initial Qual	2/17/2005
OQ03-02.00	Transmission Pipe Coatings -- All	Operator Qualification	Subsequent Qual	6/2/2010
OQ03-05.00	Pipe Inspection	Operator Qualification	Transitional Qual	12/3/2001
OQ04-00.00	Leak Test	Operator Qualification	Transitional Qual	12/3/2001
OQ04-01.00	Soap Test / Stand-up Test	Operator Qualification	Subsequent Qual	2/17/2005
OQ04-01.00	Soap Test / Stand-up Test	Operator Qualification	Subsequent Qual	6/2/2010
OQ06-01.00	Operate Svc Tee Tapping/Plugging Equip. (3/4"-2")	Operator Qualification	Transitional Qual	12/3/2001
OQ06-01.00	Operate Svc Tee Tapping/Plugging Equip. (3/4"-2")	Operator Qualification	Subsequent Qual	2/17/2005
OQ06-01.00	Operate Svc Tee Tapping/Plugging Equip. (3/4"-2")	Operator Qualification	Subsequent Qual	6/2/2010
OQ06-02.00	Operate Top Tapping/Plugging Equip. (3/4"-4")	Operator Qualification	Transitional Qual	12/3/2001
OQ06-02.00	Operate Top Tapping/Plugging Equip. (3/4"-4")	Operator Qualification	Subsequent Qual	2/17/2005
OQ06-02.00	Operate Top Tapping/Plugging Equip. (3/4"-4")	Operator Qualification	Subsequent Qual	6/2/2010
OQ06-03.00	Operate Split Cntrl Tapping/Plugging Equip(3/4-2")	Operator Qualification	Transitional Qual	12/3/2001
OQ06-03.00	Operate Split Cntrl Tapping/Plugging Equip(3/4-2")	Operator Qualification	Subsequent Qual	2/17/2005
OQ06-03.00	Operate Split Cntrl Tapping/Plugging Equip(3/4-2")	Operator Qualification	Subsequent Qual	6/2/2010
OQ06-08.00	Low Pressure / Semi-High Bagging Operations	Operator Qualification	Transitional Qual	12/3/2001
OQ06-09.00	Low Pressure Drilling / Threading Operations	Operator Qualification	Transitional Qual	12/3/2001
OQ06-10.00	Operate Riser Valve Changer Equipment	Operator Qualification	Transitional Qual	12/3/2001
OQ06-11.00	Low Pressure Foaming Operations	Operator Qualification	Transitional Qual	12/3/2001

PG&E

Employee Transcripts

Date: 4/26/2011 Page: 3

Selection Criteria:

Corp ID: Red **Employee Type:** **Job Code:**
Employee Name: **Org:** **Course Type:** OQ
PCC: **Date From:** **Date To:**

Employee Name: Redacted **Corp ID:** Redac
Org: M&C Area 1 GC Gas Constr **PCC:** Reda

CONFIDENTIAL - Provided Pursuant to P.U. Code §583

Course Code	Course Name	Course Type	Status	Status Date
OQ06-12.00	TP - Oprs Tap/Plug Equip (3/4" -2")	Operator Qualification	Initial Qual	3/26/2006
OQ06-12.00	TP - Oprs Tap/Plug Equip (3/4" -2")	Operator Qualification	Subsequent Qual	6/2/2010
OQ06-13.00	PE Tapping Tee (outlet sizes 1/2" to 2")	Operator Qualification	Initial Qual	3/18/2004
OQ06-13.00	PE Tapping Tee (outlet sizes 1/2" to 2")	Operator Qualification	Subsequent Qual	2/17/2005
OQ06-13.00	PE Tapping Tee (outlet sizes 1/2" to 2")	Operator Qualification	Subsequent Qual	6/2/2010
OQ07-01.00	Air Purging	Operator Qualification	Transitional Qual	12/3/2001
OQ07-01.00	Air Purging	Operator Qualification	Subsequent Qual	2/17/2005
OQ07-01.00	Air Purging	Operator Qualification	Subsequent Qual	6/2/2010
OQ07-02.00	Gas Purging	Operator Qualification	Transitional Qual	12/3/2001
OQ07-02.00	Gas Purging	Operator Qualification	Subsequent Qual	2/17/2005
OQ07-02.00	Gas Purging	Operator Qualification	Subsequent Qual	6/2/2010
OQ07-03.00	Inert Purging	Operator Qualification	Initial Qual	6/2/2010
OQ10-04.00	Transmission Line Repairs - Mechanical	Operator Qualification	Initial Qual	6/2/2010
OQ18-01.00	Inspect Vault	Operator Qualification	Initial Qual	2/17/2005
OQ18-01.00	Inspect Vault	Operator Qualification	Subsequent Qual	6/2/2010

CONFIDENTIAL Provided Pursuant to P.U. Code §583

Pacific Gas and Electric Company

Daily Crew Timecard

Date 11-24-09

TKG# 138 Day of the Week Tue

Regular Work Hours: 0700 - 1630 Lunch Hours: 1130-1200
By signing this document, I / We certify that I / we have recorded any missed meal periods during this pay period on this timecard, and that absent such recording I / we did receive a meal period (s).

Foreman's Name (Print) Redacted

Foreman's Signature Redacted

Headquarters Dublin

Note: All work activities such as travel time, in-lieu meal time, lunch time (if different than shown above), rest periods, etc. are to be noted as a line item below

Printed Name and EE Number Each employee must sign crew timecard	Clock Time Start	Clock Time End	Hours	Abs/Att Code	Work Reason Code	OT Reason	PR Shift	Wage Type	Upgrade	$/%	Activity Type	Receiving Order or PCC	Operation #
Redacted			8.								Const 12.	30642311	
	1630	1930	3	1000	E1							41231920	
	1930	2230	4	1000	E7								
Vehicle #			1	1006	7								
CDL Clock Time			1.										
Redacted			8									30642311	
			1	PTI				1052	50251368				
			1	1000								41232569	
Vehicle # B23n93			3	1000	E1								
CDL Clock Time			2	1000	E7								
Redacted													
EE Sig													
Vehicle #													
CDL Clock Time													
Redacted			8	1000					50010321			30642311	
			1	PTI				1052					
			1	1000								41232569	
Vehicle #			.5	1006	E1								
CDL Clock Time			2	1000	E1								
EE Sig													
Vehicle #													
CDL Clock Time													

Comments Loads & Tie Down ; Check

OT Meal Eaten Start Time ______ End Time ______ OT Meal Eaten Start Time ______ End Time ______

OT Meals Missed Time ______ Time ______ Time ______ Time ______ Time ______

2-Man Crew Y / N Hours ______ Job Site Y / N Worked Through Lunch Y / N Worked Through Lunch Approved By ______

Supervisor Name (print) Redacted Supervisor Signature Redacted Date ______ *Revised July 3, 2009*

CONFIDENTIAL - Provided Pursuant to P.U. Code §583

Pacific Gas and Electric Company
Daily Crew Timecard

Date 11-24-09

Regular Work Hours: 0700 - 1630 Lunch Hours: 1130-1200
By signing this document, I / We certify that I / we have recorded any missed meal periods during this pay period on this timecard, and that absent such recording I / we did receive a meal period (s).

Foreman's Name (Print) _____
Foreman's Signature _____
Headquarters - Auburn

P.O. KG# 138 Day of the Week _____

Note: All work activities such as travel time, in-lieu meal time, lunch time (if different than shown above), rest periods, etc. are to be noted as a line item below.

Printed Name and EE Number Each employee must sign crew timecard	Clock Time Start / End	Hours	Abs/Att Code	Work Reason Code	OT Reason	PR Shift	Wage Type	Upgrade	S / %	Activity Type	Receiving Order or PCC	Operation #
Redacted Redacted	0700 1000	3	1000					500|0161		Const.	Trailer lights Repair	
EE Sig Redacted												
	1000 1200	2	1050					"		"	41219500	
Vehicle #	1200 1230	0.5	1019								41219500	
CDL Clock Time	1230 1500	2.5	1000					"		"	41231970	
EE Sig	1500 1900	4		7				"		"	"	
Vehicle #	1900 2300	4.0		7				"		"	"	
CDL Clock Time												
missed meal		0.5	1006	17				"		"	"	
EE Sig												
Vehicle #												
CDL Clock Time												
EE Sig												
Vehicle #		3					1050					
CDL Clock Time												
EE Sig												
Vehicle #												
CDL Clock Time		16										

Comments _____

OT Meal Eaten Start Time 2130 End Time 2230 OT Meal Eaten Start Time _____ End Time _____

OT Meals Missed Time 1900 Time 1930 Time _____ Time _____ Time _____

Graduate @ 3175 miles - Rocklin

2-Man Crew Y / N Hours _____ Job Site Y / N Worked Through Lunch (Y) N Worked Through Lunch Approved By _____

Supervisor Name (print) Redacted _____ Supervisor Signature Redacted _____ Date _____

Revised July 3, 2009

Nov. 25. 2009 - 7:50AM Pacific Gas and Electric Co. No. 4171 P. 2

SB_GT&S_0069225

Attachment 5

SOUTHERN CROSS

Buster 1105/3148

CONFIDENTIAL Provided Pursuant to P.U. Code §583

Pacific Gas and Electric Company

Leak Survey, Repair, Inspection, and Gas Quarterly Incident Report (Form "A")

62-4060 (Rev 3/08)
Gas T&D
Utility Standard
S4110

104162469

INITIAL LEAK DATA

Leak Number (Year / Series / SFX)	09 - 9368 - 1	USA Ticket #	3675775	Valid Date (Month / Day / Year)	11 - 24 - 09
Date Reported (Month / Day / Year)	11 - 24 - 09	Time Reported	1050 (24 hr Time)	PCC Number	12055
Response Date	11 - 24 - 09	Response Time	1600 (24 hr Time)	Paved Wall-To-Wall	Yes ☐ No ☑
Moratorium Expire Date	- -	SAP Recheck Order #		SAP Repair Order #	41231970

Address: Redacted City: Rocklin

Description of Reading Location: 4% in bar hole App. 12FT From Home over Srvc. Line.

REPORTED BY: ☑ Call-In ☐ Mobile Survey ☐ Other Employee[b] ☑ Foot Survey

SURFACE OVER LEAK: ☑ Concrete ☐ Asphalt ☐ Unsurfaced ☐ Other

Reda 12/8/09

READINGS PPM	% LEL	% GAS	Instr[a]	Grade[b]	2% or Less[c] or Suspect Copper (S)	Down Grade Via Vent (Yes/No)	DATE	Time (24 hr Time)	OPERATOR LAN ID	UNIT SERIAL NUMBER (Last 4 Digits)	LOCATION REMARKS (Not needed, if the same as previous)
		4%	C	2		No	11-24-09	1050	Redacted	4053	No possible closer spot to bar hole due to Concrete

PRIORITY 2+ REQUESTED REPAIR DATE (Only needed if less than 90 days) - - (Repair required within 90 calendar days)

a Instrument Type: Enter H for Hydrogen Flame Ionization, C for Combustible Gas Indicator, or V for Visual.

b Enter Grade or enter 2+ for Priority Grade 2. Enter 0 (zero) if no leak is found. If a competent first responder from other than M&C determines that the leak is non-hazardous, enter as a Grade 2+. The % Gas will be zero, the instrument will be "V" and the 2% reason code will be "H". Use the next line below to upgrade or downgrade the leak.

c 2% or less reason code is required if leak is graded as 1, 2+, or 2:
A-Wall to wall and traveling, B-Next to, at or under building, C-Odor and next to public gathering location, D-In foreign structure, E-Audible and/or visible,
F-On facility in extremely poor condition, G-At least second customer call out, H-Leak is reported as 0% Gas Visual,
J-Leak within the scope of work by others, S–Leak is suspected to be on a copper service

MAPPING DATA

Leak Location Map — Wall Map: 2405 Plat: C3 — Federal Land ☐ Yes ☑ No

Recorded Location Map — Wall Map: 2H05 Plat: C3 — Block: 12

Normally Cathodically Protected ☒ Yes ☐ No CPA: 12501 — MOP (TP only)

SYSTEM PRESSURE (MAOP) R'qrd for Grade1, 2, & 2+ Downgrades to Grade 0
☐ LP(≤10.5" WC) ☐ SHP(≤ 25 psig) ☑ HP(≤ 60 psig) ☐ TP(>60 psig)

NOP (All Systems) 57

Year Inst. 1976 TP Line # Mile Post: Original Job # (TP Only)

For Leaks On Services: Main Connected to Service ☐ Cast Iron ☐ Plastic ☒ Steel Installation Year of Main 1963

PIPE DATA

LEAK SOURCE:
- ☐ Bell Joint
- ☑ Body of Pipe
- ☐ Clamp
- ☐ Drip
- ☐ Encapsulation
- ☐ Fitting
- ☐ Fusion Joint
- ☐ Girth Weld
- ☐ Longitudinal Weld
- ☐ Mechanical Joint
- ☐ Plastic Tee Cap
- ☐ Other Welds
- ☐ Regulator
- ☐ Riser
- ☐ Tap Connection
- ☐ SS Fitting in Plastic System
- ☐ Valve
- ☐ Unknown
- ☐ Other

LEAK CAUSE:
- ☐ Atmospheric Corrosion
- ☐ Cast Iron Fracture
- ☐ Construction Defect
- ☐ Damage by Electrical Facility
- ☐ Damage by Heavy Rains/Flood
- ☐ Damage by Earth Movement
- ☐ Damage by 3rd Party
- ☐ External Corrosion
- ☐ Internal Corrosion
- ☐ Stress Corrosion Cracking
- ☐ Material Failure
- ☑ Plastic Crack Failure
- ☐ Plastic Embrittlement
- ☐ Vandalism
- ☐ Structure Fire
- ☐ Vehicle
- ☐ Incorrect Operation
- ☐ Equipment Malfunction
- ☐ Previously Damaged
- ☐ Lightning
- ☐ Weld Failure
- ☐ Unknown
- ☐ Other

LINE USE:
- ☐ Distribution Main
- ☐ Gathering
- ☐ Single Service
- ☑ Branch Service
- ☐ Transmission

LINE MATERIAL:
- ☐ Copper
- ☐ Steel/Wrought Iron
- ☐ Cast/Ductile Iron
- ☒ Aldyl A (Tan or Gray)
- ☐ PE2406 (Yellow or Orange)
- ☐ PE2406/2708 (Yellow)
- ☐ PE 3408 (Black)
- ☐ PE 4710 (Black)
- ☐ Other Plastic
- ☐ Other

Line Size .510 Line Above Ground ☐ Yes ☑ No Internal Liner ☐ Yes ☑ No Line Inserted ☐ Yes ☑ No

High Consequence Area ☐ Yes ☐ No (Transmission Only) EFV Installed ☐ Yes ☑ No EFV Operated ☐ Yes ☑ No

Incident Report #: Material Problem Report #:

RECEIVED NOV 25 2009

RECEIVED DEC 09 2009

RECEIVED NOV 25 2009

SB_GT&S_0069227

REPAIR DATA

Repair Location: Repaired 1' Before Tee to Branch Service

☐ Yes ☒ No Pipeline Engineer Consulted — Repair Remarks

Repaired By: Redacted — Repair Date: 11-24-09 — Repair Time: 1900 — Pipe-to Soil (mV) (External Corrosion Only):

Redacted

REPAIR CODE: Redacted

- ☐ Bell Joint Seal
- ☐ Bell Joint Clamp
- ☐ CI Repair Sleeve
- ☐ BJ Permabond
- ☐ Deactivate TP Main
- ☐ Replace TP Main
- ☐ Deactivate Dist Main (1 foot or more)
- ☒ Mechanical Repair Fitting
- ☐ Replace Dist Main < 100 ft.
- ☐ Replace Dist Main > or = 100 ft
- ☐ Deactivated Entire Service
- ☐ Deactivated Partial Service
- ☐ Replace Entire Service
- ☐ Replace Partial Service
- ☐ Replace Valve < 2-Inch
- ☐ Replace Valve > or = 2-Inch
- ☐ Replace Plastic Tee Cap
- ☐ Tighten Cap/Bolt
- ☐ Aldyl Electrofusion Overcap
- ☐ Skinner Clamp
- ☐ SS Clamp w/Anode
- ☐ Soap and/or Tape
- ☐ Tee Fused Over Defect
- ☐ Fill Weld
- ☐ Patch Weld
- ☐ Direct Deposition Weld
- ☐ Welded Sleeve/Can
- ☐ Welded Save-A-Valve
- ☒ Type A Sleeve
- ☐ Type B Sleeve
- ☐ Grinding
- ☐ Clockspring
- ☐ Aquawrap
- ☐ Other

SIZE INSTALLED: 5/8 — REPLACED WITH: ☐ STEEL ☒ PE2406/2708 (Yellow) ☐ PE 4710 (Black) — ☐ Copper Entirely Replaced

Field Reviewed By: Redacted — Date: 11-25-09 — Post Repair Check ☐ Yes ☒ No — Date:

Mapping Reviewed By: Redacted — Date: 12-07-09 — Posting Required ☐ Yes ☒ No

GENERAL INSPECTION DATA

Date: 11-24-09 — Inspected by LAN ID: Redacted — Line Use: ☐ Distribution Main ☐ Gathering ☐ Single Service ☒ Branch Service ☐ Transmission

Redac

LINE MATERIAL
- ☐ Steel/Wrought Iron
- ☐ Cast/Ductile Iron
- ☐ Copper
- ☒ Aldyl-A (Tan or Gray)
- ☐ PE 2406 (Yellow or Orange)
- ☐ PE 2406/2708 (Yellow)
- ☐ PE 3408 (Black)
- ☐ PE 4710 (Black)

SOIL TYPE
- ☐ Clay
- ☐ Rock
- ☐ Sand
- ☒ Loam
- ☐ Wet
- ☐ Exposed Facility
- ☐ Other

For TP Only SOIL RESIST (ohm-cm)
- ☐ 0 - 1,000
- ☐ 1,000 - 2,000
- ☐ 2,000 - 5,000
- ☒ 5,000 - 10,000
- ☐ >10,000

SURFACE OVER PIPE
- ☒ Concrete
- ☐ Asphalt
- ☐ Soil (Previously Unsurfaced)
- ☐ Exposed
- ☐ Other

FEET EXPOSED: 02
COVER ON PIPE (Inches): 30
INTERNAL LINER ☐ Yes ☒ No
PAVED WALL TO WALL ☒ Yes ☐ No
NEAR PUBLIC ASSEMBLY ☐ Yes ☒ No
Line Size: 5/8

METALLIC PIPE CONDITION

COATING TYPE: ☐ Bare/None ☐ Paint ☐ Single Wrap ☐ Somastic ☐ Tar ☐ Epoxy ☐ Tape ☐ Double Wrap ☐ Plastic Coated ☐ Other

COATING CONDITION: ☐ Excellent ☐ Fair ☐ Good ☐ Poor

CIRCUMFERENTIAL WELD CONDITION (Visual): ☐ Acceptable ☐ Cracked ☐ High/Low Observed ☐ Dimensions not in tolerance (See Numbered Document D-20 or D-22)

LONG SEAM: ☐ DSAW ☐ ERW ☐ AO Smith ☐ Spiral ☐ SSAW ☐ SMLS ☐ LAP ☐ Flash

EXTERNAL INSPECTION

RUST ☐ None ☐ Light ☐ Heavy
PITTING ☐ None ☐ Light ☐ Heavy
GOUGING ☐ None ☐ Light ☐ Heavy

WALL THICKNESS (Req. for TP) (Inches):
MAX. PIT DEPTH (Req. for TP) (Inches):
MAX. GOUGE DEPTH (Req. for TP) (Inches):

WALL THICKNESS MEASURED ☐ Yes ☐ No
GRAPHITIZED (CAST IRON) ☐ Yes ☐ No

INTERNAL INSPECTION

RUST ☐ None ☐ Light ☐ Heavy
PITTING ☐ None ☐ Light ☐ Heavy
MAX. PIT DEPTH (Req. for TP) (Inches):

PLASTIC PIPE CONDITION

PRINTLINE VISIBLE ☐ Yes ☒ No

PIPE MANUFACTURER (LOCATED ON PIPE): DYNA-FLO — MANUFACTURE DATE: __/__/__ (MM/DD/YY)

LOCATING WIRE ☒ Good ☐ Bad ☐ None

GOUGING ☐ Yes ☐ No — UNDER STRESS/BENT ☒ Yes ☐ No — DISCOLORING TO GRAY ☒ Yes ☐ No — CRACKING ☐ Yes ☒ No — IN CONTACT WITH HARD OBJECTS ☒ Yes ☐ No

ESTIMATE GOUGE DEPTH ☐ <10% ☐ 10-50% ☐ >50%

VISUAL BEAD APPEARANCE (SEE NUMBERED DOCUMENT D-21) ☐ Acceptable ☐ Unacceptable

TEE CAP CRACKING ☐ Yes ☒ No

GAS QUARTERLY INCIDENT DATA

Damaging Party: _____ Address: _____ City: _____

Damaging Party Working For PG&E ☐ Yes ☐ No — Zip Code: _____

Phone (___) ___-____

INJURED: EMPLOYEES ____ OTHERS ____ — DAMAGE $ _____ — # Cust. Interrupted _____ — # Cust. Hours ____ — FIRE ☐ Yes ☐ No — EXPLOSION ☐ Yes ☐ No

FATAL: EMPLOYEES ____ OTHERS ____ — Media ☐ Yes ☐ No — Media Type ☐ TV ☐ Radio ☐ Newspaper — Name/Channel: ____

DOT REPORTABLE (Fatality, In-patient Hospitalization, ≥$50K Property Damage) ☐ Yes ☐ No — CPUC REPORTABLE (Major News Media) ☐ Yes ☐ No

LOCATION SKETCH

REQUIRED for new or returned to service segments of main and/or service: ☐ On-Site Test ☐ Pre-Test TESTED AT ____ PSIG FOR ____ Hour/Minutes TEST In accordance with A-34 BY ____ DATE ____ TEST QUALIFIES PIPE FOR - ____ PSIG MAOP	(if any fittings are used, then text and/or sketch must show location)	WELDED BY: Date: WELDING INSPECTED PER PG&E NUMBERED DOCUMENT D-40 BY: Date: INSPECTOR
	TYPE OF PLASTIC MATERIAL INSTALLED Manufacturer Name (Polypipe, US Poly, Performance, or KWH) ____ / MFG. DATE (MM/DD/YY) __/__/__ See Numbered Document A-93	

COMMENTS: Soap test 1/2" ALYSDA Pinched At previous squeeze point. And Rock putting At squeeze point. (pressured)

A sketch is required for all repairs (or directions as to where to find the sketch is required, if it is located on another record).

Please Note: EMS Markers are to be installed for Deactivated Facilities and where plastic is found without wire. All EMS markers shall be clearly dimensioned.

SB_GT&S_0069229

CONFIDENTIAL Provided Pursuant to Govt. Code §583

Pacific Gas and Electric Company	Leak Repair, Inspection, and Gas Quarterly Incident Report (A-Form)	62-4060 (Rev 03/11) TD-4110P-11-F01

Form Type ☐ Leak ☐ Inspection Only or Non-Leak Damage

Dates

Compliance Due Date ___-___-___ Assigned to M&C Coordinator ___-___-___ Assigned to Construction ___-___-___

INITIAL DATA

Leak Number (District - Year - Series - Location): ___-___-___-___ Location: A = Above Ground, B = Below Ground

USA Ticket # 00715503 Valid Date (Month-Day-Year) 03-14-11

Date Reported ___-___-___ Time Reported ____ (24 hr Time) PCC Number 12055

Response Date 03-22-11 Response Time 0800 (24 hr Time) Paved Wall-To-Wall ☐ Yes ☑ No

Gas Flow Stopped Date ___-___-___ Gas Flow Stopped Time ____ (24 hr Time)

SAP Repair Order # 41469356

Address: Redacted City: Rocklin

Description of Reading Location:

Reported By: ☐ Call-In ☐ Mobile Survey ☐ Foot Survey ☐ Other Employee

Surface At Read Location: ☐ Concrete ☐ Asphalt ☐ Other ☐ Unsurfaced ☐ Water/Marsh/Tidal ☐ Above ground ☐ In Substructure

Readings % Gas	Instr (a)	Grade (b)	Info Code (c)	Date	Time (24 hr Time)	Operator LAN ID	Unit Serial Number (Last 4 Digits)	Location Remarks (Not needed, if same as previous)
				___-___				
				___-___				
				___-___				
				___-___				
				___-___				
				___-___				

GRADE 2+ REQUESTED REPAIR DATE (Only needed if less than 90 days) ___-___ (Repair required within 90 calendar days)

(a) Instrument Type Used to Grade: Enter, C for Combustible Gas Indicator, V for Visual. H for Hydrogen Flame Ionization (use for waterways or marsh only)
(b) Enter Grade: (1, 2+, 2, or 3). Enter 0 (zero) if no leak is found.
(c) Info code is required if leak is graded as 1, 2+, or 2 and is less than 2% gas:
A-Wall to wall and/or Continuously Paved, B-Near to, at, inside or under building, C-Odor and next to public gathering location, D-In foreign structure, E-Audible and/or visible, F-On facility in extremely poor condition, G-At least second customer call out, H-Leak is reported as 0% Gas Visual, J-Leak within the scope of work by others, M – Migration, N – Downgrade to Grade 3 is not allowed, S–Leak is suspected to be on a copper service, T – T&R Facility

MAPPING DATA

Location Map Wall Map: 2405 Plat: C3 Federal Land ☐ Yes ☑ No

Recorded Location Map Wall Map: ____ Plat: ____ Block 12

Normally Cathodically Protected ☐ Yes ☐ No CPA ____ MAOP (All) ____

Operating Map/Diagram ____ NOP (All) ____

SYSTEM PRESSURE: ☐ LP(≤10.5" WC) ☐ SHP(≤ 25psig) ☑ HP(≤ 60 psig) ☐ TP(>60 psig)

Year Inst. 1976 TP Line # ____ Mile Point: ____ Original Job # (TP Only) ____

For Leaks On Services: Main Connected to Service ☐ Cast Iron ☐ Plastic ☐ Steel Main Installation Year 1963

HIGH CONSEQUENCE AREA

High Consequence Area ☐ Yes ☐ No (>= 20% SMYS Only) Date source of leak was determined ___-___-___

Is leak source responsible for HCA? ☐ Yes ☐ No (CHOOSE "Yes" if the diameter & pressure of the effected pipe produce the impact circle creating HCA)

SB_GT&S_0069230

PIPE DATA

SOURCE : Choose One

- ☐ Bell Joint (1)
- ☐ Body of Pipe (1)
- ☐ Drip (1)
- ☐ Encapsulation (1)
- ☐ Fusion Joint (1)
- ☐ Other Mechanical Joint (1)
- ☐ Curb Valve (2)
- ☐ Line Valve (2)
- ☐ Clamp (3)
- ☐ Compress Coupling/Fitting Plastic(3)
- ☐ Compress. Coupling Steel (3)
- ☐ Compression Coupling Stainless Steel (3)
- ☐ Fitting (3)
- ☐ Plastic Tee Cap (3)
- ☐ Pressure Control Fittings(3)
- ☐ Stab Type Fittings (3)
- ☐ Tap Connection (3)
- ☐ Non-corrodible prefab riser (4)
- ☐ Riser (4)
- ☐ Riser Insert Kit (4)
- ☐ Girth Weld (5)
- ☐ Longitudinal Weld (5)
- ☐ Other Welds (5)
- ☐ Regulator/Pilot (6)
- ☐ Riser Valve Threads (7)
- ☐ Threads (7)
- ☐ Unknown(Replaced Facility)(7)
- ☐ *Other (7)

*Other requires explanation. Describe reason for other.

Categories for Source:
(1)Body of Pipe, (2) Valves, (3) Fittings, (4) Riser, (5) Welds, (6) Regulation (7) Other

CAUSE: Choose One

- ☐ Atmospheric Corrosion (1)
- ☐ External Corrosion (1)
- ☐ Internal Corrosion (1)
- ☐ Stress Corrosion Cracking (1)
- ☐ Damage by Earth Movement (2)
- ☐ Damage by Heavy Rains/Flood (2)
- ☐ Earthquake (2)
- ☐ Lightning (2)
- ☐ Other Natural Forces (2)
- ☐ Damage by Third Party (3)
- ☐ Digin/Excavation (3)
- ☐ Previously Damaged (3)
- ☐ Vehicle (3)
- ☐ Damage by Electrical Facility (4)
- ☐ Deliberate Acts/Vandalism (4)
- ☐ Fire or Explosion on Company Facility (4)
- ☐ Fire or Explosion on Customer Facility (4)
- ☐ Cast Iron Fracture (5)
- ☐ Compression Coupling (5)
- ☐ Construction Defect (5)
- ☐ No/Deteriorated Pipe Dope (5)
- ☐ Plastic Crack Failure (5)
- ☐ Plastic Embrittlement (5)
- ☐ Material Failure (5)
- ☐ Weld Failure (5)
- ☐ Equipment Malfunction (6)
- ☐ Incorrect Operation (6)
- ☐ Rodent (7)
- ☐ Root Damage (7)
- ☐ Unknown (Replaced facility) (7)
- ☐ Other (7)_____
- ☐ Inspection Only (7)

LINE USE:

- ☐ Distribution Main <= 60 PSIG
- ☐ Distribution Main > 60 PSIG, not classified as Transmission
- ☐ Gathering
- ☐ Single Service
- ☒ Branch Service
- ☐ Transmission (>=20% SMYS)

LINE MATERIAL:

- ☐ Cast Iron
- ☐ Ductile Iron
- ☐ Steel
- ☐ Wrought Iron
- ☐ Copper
- ☒ Aldyl A
- ☐ PE2406 (Orange)
- ☐ PE2406/2708 (Yellow)
- ☐ PE 3408 (Black)
- ☐ PE 4710 (Black)
- ☐ Other Plastic _____
- ☐ *Other _____

Categories for Cause:
(1) Corrosion, (2) Outside Forces (3,4) Damage by others (5) Failures (6) Malfunctions (7) other causes

Line Size .50 | Line Above Ground ☐ Yes ☒ No | Internal Liner ☐ Yes ☒ No | Line Inserted ☐ Yes ☒ No

Existing EFV ☐ Yes ☒ No | EFV Operated ☐ Yes ☒ No (Required for Distribution Services only)

Incident Report # | Material Problem Report #

Was the damage/leak discovered as the result of current construction activity occurring this calendar year? ☐ Yes ☒ No

REPAIR DATA

Repair Location: 28 feet back of walk on service

Repair Remarks: test branch service at 100 psi

Repaired By LAN ID: Redacted | Repair Date: 03-22-11 | Repair Time (24 Hour Time): 1100

Pipeline Engineer Consulted ☐ Yes ☒ No | New EFV Installed ☐ Yes ☒ No | Paving Needed? ☐ Yes ☒ No

Is leak source a mechanical joint which can be repaired by tightening? ☐ Yes ☐ No (If no, normal leak grading and response applies)

REPAIR CODE: Choose One -- either Capital or Maintenance (Expense)

CAPITAL

- ☐ Deactivate #TP Main
- ☐ Deactivate Dist Main =>1 foot
- ☐ Deactivated Entire Service
- ☐ Replace Entire Service
- ☐ Replace #TP Main >= 50 ft
- ☐ Replace Dist Main > = 100 ft
- ☐ Replace Main Valve > = 2-inch
- ☐ Replace Service Valve > = 2-inch

MAINTENANCE (Expense)

- ☐ Bell Joint Clamp – Cast Iron
- ☐ Bell Joint Permabond – Cast Iron
- ☐ Bell Joint Seal – Cast Iron
- ☐ Cast Iron Repair Sleeve –Cast Iron
- ☐ Full Circle Clamp – Clamp
- ☐ Skinner Clamp – Clamp
- ☐ Skinner Pipe Joint Clamp – Clamp
- ☐ SS Clamp w/Anode – Clamp
- ☐ Deactivated Partial Service
- ☐ Mechanical Repair Fitting – Fitting
- ☐ Remove/Replace Completion Plug – Fitting
- ☐ Tighten Cap/Bolt – Fitting
- ☐ Aldyl A Overcap –Plastic
- ☐ Replace Plastic Tee Cap – Plastic
- ☐ Tee Fused Over Defect - Plastic
- ☐ Replace Dist Main < 100 ft
- ☐ Replace Main Valve < 2-inch
- ☒ Replace Partial Service
- ☐ Replace Riser
- ☐ Replace Service Valve <2-inch
- ☐ Replace #TP Main < 50 ft
- ☐ Direct Deposition Weld – Weld
- ☐ Fill Weld – Weld
- ☐ Patch Weld – Weld
- ☐ Type A Sleeve – Weld
- ☐ Type B Sleeve – Weld
- ☐ Welded Sav-A-Valve – Weld
- ☐ Welded Sleeve/Can – Weld
- ☐ Aquawrap – Other
- ☐ Clockspring – Other
- ☐ Greased - Other
- ☐ Grinding – Other
- ☐ Reattached Anode - Other
- ☐ Rewrapped Pipe - Other
- ☐ Soap and/or Tape - Other
- ☐ Trident Seal – Other
- ☐ Other

*Other requires explanation. Describe reason.

Size Installed: .50 | Replaced With: ☐ STEEL ☐ PE 4710 (Black) ☒ PE2406/2708 (Yellow)

Copper Entirely Replaced ☐ Yes ☒ No

SB_GT&S_0069231

GENERAL INSPECTION DATA

Reason for Inspection: ☐ Leak Repair ☐ WRO ☐ New Business ☐ Landslide ☐ Reconstruction ☐ Plugged Copper ☐ Capacity
☐ Facilities Exposed by Third Party ☐ Exposed Facility/Pipe Span ☑ Other P.G.+E Audit (explain)

Date: 03-22-11 Inspected by LAN ID: Redacted

LINE MATERIAL	SOIL TYPE	SOIL RESIST(TP)	SURFACE OVER
☐ Steel	☑ Clay	☐ 0 – 1,000	☐ Asphalt
☐ Wrought Iron	☐ Rock	☐ 1,000 - 2,000	☐ Concrete
☐ Cast Iron	☐ Sand	☐ 2,000 - 5,000	☐ Above Ground
☐ Ductile Iron	☐ Loam	☐ 5,000 - 10,000	☐ In Substructure
☐ Copper	☐ Wet	☐ >10,000	☑ Unsurfaced
☑ Aldyl-A	☐ Exposed Facility		☐ Water/Marsh/Tidal
☐ PE 2406 (Orange)	☐ Gravel		☐ Other
☐ PE 2406/2708 (Yellow)	☐ Other		
☐ PE 3408 (Black)			
☐ PE 4710 (Black)			
☐ Other Plastic			
☐ Other			

FEET EXPOSED: 2
COVER ON PIPE (Inches): 60
INTERNAL LINER ☐ Yes ☑ No
PAVED WALL TO WALL ☐ Yes ☑ No
NEAR PUBLIC ASSEMBLY ☐ Yes ☑ No

NLIS REFERENCE #: _____ LINE SIZE .50

CATHODIC PROTECTION SYSTEM CONDITION

Pipe to Soil (Mv)		LAN ID Taking Reading:		Cathodic Protection System Damaged ☐ Yes ☐ No	Corrective Form Issued ☐ Yes ☐ No

METALLIC PIPE CONDITION

COATING TYPE ☐ Bare/None ☐ Paint ☐ Single Wrap ☐ Somastic ☐ Hot Applied Asphalt ☐ Epoxy ☐ Tape ☐ Double Wrap ☐ Extru Coat ☐ Other
COATING CONDITION ☐ Excellent ☐ Fair ☐ Good ☐ Poor
COATING DAMAGED ☐ Yes ☐ No
COATING REPAIRED ☐ Yes ☐ No
ASBESTOS ☐ Yes ☐ No ☐ Unknown
PIPE SUPPORT CONDITION ☐ Good ☐ Possible Lack of - Consult Engineer
CIRCUMFERENTIAL WELD CONDITION (Visual) ☐ Acceptable ☐ Cracked ☐ High/Low Observed ☐ Dimensions not in tolerance (See D-20 or D-22)
LONG SEAM (TP only) ☐ DSAW ☐ ERW ☐ AO Smith ☐ Spiral ☐ SSAW ☐ SMLS ☐ LAP ☐ Flash
Pipe Grade/Spec (TP only) ☐ Grade B ☐ X42 ☐ X52 ☐ X60 ☐ X65 ☐ X70

EXTERNAL INSPECTION

RUST ☐ None ☐ Light ☐ Heavy	WALL THICKNESS (Req. for TP) (inches)	.	WALL THICKNESS MEASURED	☐ Yes ☐ No	
PITTING ☐ None ☐ Light ☐ Heavy	MAX. PIT DEPTH (Req. for TP) (inches)	.	GRAPHITIZED (Cast Iron)	☐ Yes ☐ No	
GOUGING ☐ None ☐ Light ☐ Heavy	MAX. GOUGE DEPTH (Req. for TP) (inches)	.	MAX. GOUGE Length (Req. for TP) (inches)		
	MAX. EXTERNAL CORROSION Length (Req. for TP) (inches)	.	DEPTH OF DENTS (inches)		

INTERNAL INSPECTION

RUST ☐ None ☐ Light ☐ Heavy | PITTING ☐ None ☐ Light ☐ Heavy | MAX. PIT DEPTH (Req. for TP) (inches) .

PLASTIC PIPE CONDITION

PRINTLINE LEGIBLE ☐ Yes ☑ No

PIPE MANUFACTURER (LOCATED ON PIPE)		MANUFACTURE DATE / /	LOCATING WIRE SIZE 14	LOCATING WIRE CONDITION ☑ Good ☐ Bad ☐ None	
GOUGING ☐ Yes ☑ No	UNDER STRESS/ BENT ☐ Yes ☑ No	DISCOLORING TO GRAY ☐ Yes ☑ No	CRACKING ☐ Yes ☑ No	IN CONTACT WITH HARD OBJECTS ☐ Yes ☑ No	
ESTIMATE GOUGE DEPTH ☐ <10% ☐ 10-50% ☐ >50%	VISUAL APPEARANCE (SEE S4170) ☐ Acceptable ☐ Unacceptable	TEE CAP CRACKING ☐ Yes ☑ No			

GAS QUARTERLY INCIDENT DATA

Damaging Party Type ☐ First Party (PG&E) ☐ Second Party (Contractor working on PG&E job) ☐ Third Party (Everyone else)

Damaging Party Name: Damaging Party Operator:	Address:	
City:	Phone:	Zip Code:
Zero Customers Out ☐ Yes ☐ No	Est. Date and Time of Restoration (or CGI) - -	Time (24 Hour)
# INJURED: EMPLOYEES ____ OTHERS ____	DAMAGE $____	# Cust. Interrupted ____
# Cust. Hours ____	FIRE ☐ Yes ☐ No	EXPLOSION ☐ Yes ☐ No
# FATAL: EMPLOYEES ____ OTHERS ____	Media ☐ Yes ☐ No	Media Type ☐ TV ☐ Radio ☐ Newspaper Name/Channel: ____

DOT REPORTABLE (Fatality, In-patient Hospitalization, ≥$50K Property Damage) ☐ Yes ☐ No CPUC REPORTABLE (Major News Media) ☐ Yes ☐ No

SB_GT&S_0069232

LOCATION SKETCH

REQUIRED for new or returned to service segments of ☐main or ☑service: ☑ On-Site Test ☐ Pre-Test ☐ Soap Test TESTED AT 100 PSIG FOR 5 Hour/Minutes TEST in accordance with A-34 BY: (LAN ID) Redacted DATE 3-22-11	TYPE OF MATERIAL INSTALLED 1/2" PE Manufacturer Name Driscopipe Size: 1/2 pe SDR: 7 WT:	MFG. DATE (MM/DD/YY) 07/09/10 See A-93	WELDED BY: (LAN ID) Date: WELDING INSPECTED PER PG&E D-40 INSPECTED BY: (LAN ID) Date:
REQUIRED for new or returned to service segments of ☐main or ☐service: ☐ On-Site Test ☐ Pre-Test ☐ Soap Test TESTED AT PSIG FOR Hour/Minutes TEST in accordance with A-34 BY: (LAN ID) DATE	TYPE OF MATERIAL INSTALLED Manufacturer Name Size: SDR: WT:	MFG. DATE (MM/DD/YY) / / See A-93	D-34 Qualifications for joining plastic: Plastic Joined BY: (LAN ID) Redacted Date: 03-22-11

TIE-IN DATA ☐ Socket Fusion ☑ Stab Coupling ☐ Electro-Fusion ☐ Compression Fitting ☐ Butt Fusion ☐ Transition Fitting

COMMENTS: air test service at 100 lbs for 5 min
install 1/2 pe. pipe + 2 permanent couplings

Responsible Person LAN ID: Redacted

A sketch is required for all repairs (or directions as to where to find the sketch is required, if it is located on another record).
If any fittings are used, then text and/or sketch must show location.

N

Redacted

Redacted

Please Note: EMS Markers are to be installed for Unlocatable Facilities, Deactivated Facilities and where plastic is found without wire. All EMS markers shall be clearly dimensioned.

Field Supervisor Reviewed By LAN ID: Redacted Date 03-29-11 Post Repair Check ☐ Yes ☑ No Date --

Mapping Reviewed By LAN ID: Date 04-04-11 Posting Required ☐ Yes ☐ No

SB_GT&S_0069233

Attachment 6

Pacific Gas and Electric Company

STANDARD CATHODIC PROTECTION MAINTENANCE REPORT

(Form must be completed in Non-erasable Ink)

COPY

GT&D
01/09
FO-16-D

A. RECORD INFORMATION

LOCATION Redacted	CITY ROSEVILLE	CP SYSTEM NO. 15-S-001A	FM/PLM# AJ50
AREA 6	DIVISION SIERRA	DISTRICT PLACER	YEAR 2011

B. PIPE-TO-SOIL POTENTIAL MEASUREMENTS (MILLIVOLTS)

TEST LOCATION	BASE DATA	LAST YR READING	Jan	Mar	May		July		Sept		Nov		
1. Redacted	-956	910	961	967	781	869	711	866	798	863	-901		
2.	-1069	979	1050	1069	859	974	820	1007	747	961	-1006		
3.													
4.													
5.													
6.													
DATA RECORDED BY (LAN ID)	Redacted												
DATA RECORDED BY (INITIALS)													
DATE (MONTH/DAY)	12-03	11-3	1-3-11	3-2-11	5-4-11	5-23-11	7-6-11	7-12-11	9-7-11	10-3-11	11-1-11		

C. GALVANIC ANODE/RECTIFIER MEASUREMENTS

GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR READING	INTERFERENCE TEST RECTIFIER - 1. 4.5A AMPS, 2. _____ AMPS, 3. _____ AMPS, 4. _____ AMPS VOLTS/AMPS										
1. Redacted	3.2A	3.2A				3.9	3.9	3.9		3.2			
2.	7.7V	8.7V				8.5	8.8	8.5		8.5			
3.													
4.													
5.													
6.													
DATA RECORDED BY (LAN ID)	Redacted												
DATA RECORDED BY (INITIALS)													
DATE (MONTH/DAY)	7/28/04	5-29				5/23/11	7-6-11	7-12-11		10-3-11			

D. RECORD REVIEW

BI-MONTHLY REVIEWED BY (LAN ID)			Redacted										
BI-MONTHLY REVIEWED BY (INITIALS)													
DATE (MONTH/DAY)			1/19/11	3/16/11	5/20/11	8/4/11	8/4/11	8/4/11	10/12/11	10/12/11	11/4/11		

CONFIDENTIAL - Provided Pursuant to P.U. Code §583

CONFIDENTIAL - Provided Pursuant to P.U. Code §583

Pacific Gas and Electric Company

E. LOG OF CATHODIC PROTECTION MAINTENANCE WORK

(Form must be completed in Non-erasable Ink)

COPY

GT&D 01/09 PO-76-D

CPA System No. _____

DATE	LAN ID	INITIALS	WORK DESCRIPTION
5/23/11	Redacted		After multible days trouble shooting determined there
			were no contacts. Interference test on rectifier is
			4.5 amps. Determined anodes are depleting Raised
			rectifier to 3.9 amps area now is up.
7/12/11			Blown fuse on rectifier, area now up.
10/3/11			Meter set had a ground wire attached to riser.
			Home own contacted. Ground removed, area now up.
			Redacted

Attachment 7

Scott

Here are the reults of testing done 5/25/11 on the PUC audit findings:

Redacted Audit P/S read = 804mv..... 5/25 P/S read = 1020mv
Audit P/S read = 843mv.....5/25 P/S read = 889mv

Redacted Audit P/S read = 814mv.....2# driveable anode installed 5/25, P/S read = 1636mv

Redacted (10%er) service is cut off and abandoned.

Redacted address does not exist. CP records do not show a P/S read ever at this address. Where did the PUC get this address?

Redacted

Follow up reads 9/10/12 by SCPS & Kevin Stevens

Redacted

P/S = -983 mV.
P/S = -1221 mV.
As found P/S = -820 mV. Installed driveable Anode.
As left P/S = -1221 mV.

No Redacted could be found.

Redacted

CONFIDENTIAL - Provided Pursuant to P.U. Code §583

Pacific Gas and Electric Company

STANDARD CATHODIC PROTE..ION MAINTENANCE REPORT

(Form must be completed in Non-erasable Ink)

GT&D
01/09
FO-16-D

A. RECORD INFORMATION

LOCATION COLUSA 10% SHEET 1	CITY COLUSA	CP SYSTEM NO.	FM/PLM#
AREA 6	DIVISION SACRAMENTO	DISTRICT COLUSA	YEAR

B. PIPE-TO-SOIL POTENTIAL MEASUREMENTS (MILLIVOLTS)

TEST LOCATION	BASE DATA	LAST YR READING	2009	2010	2011	2012							
1. Redacted		1001/05	—	—	—	976							
2.		945/01	—	1010	—	955							
3.		945/01	—	1020	—	—							
4.		1071/04	—	—	1004	—							
5.		1321/02	—	1561	—	—							
6.		1012/06	—	—	—	—							
DATA RECORDED BY (LAN ID)		SEP3		Redacted									
DATA RECORDED BY (INITIALS)		SP											
DATE (MONTH/DAY)				4/16/10	4/21/11	4/30/12							

C. GALVANIC ANODE/RECTIFIER MEASUREMENTS

GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR READING	INTERFERENCE TEST RECTIFIER - 1. _____ AMPS, 2. _____ AMPS, 3. _____ AMPS, 4. _____ AMPS VOLTS/AMPS											
1.														
2.														
3.														
4.														
5.														
6.														
DATA RECORDED BY (LAN ID)														
DATA RECORDED BY (INITIALS)														
DATE (MONTH/DAY)														

D. RECORD REVIEW

BI-MONTHLY REVIEWED BY (LAN ID)				Redacted										
BI-MONTHLY REVIEWED BY (INITIALS)														
DATE (MONTH/DAY)				4/21/10	4/15/11	9/5/leav								

Pacific Gas and Electric Company.

E. LOG OF CATHODIC PROTECTION MAINTENANCE WORK

(Form must be completed in Non-erasable Ink)

GT&D
01/09
FO-16-D

CPA System No. _____

DATE	LAN ID	INITIALS	WORK DESCRIPTION
9/12/12	Redacted		Redacted follow up read from
			PLC audit -983mv. Read during PLC Audit
			was -861mv on 5/25/11 was read at
			-1030 mv.

ıcific Gas and ectric Company

STANDARD CATHODIC PR[illegible]ECTION MAINTENANCE REPO[illegible]T

GD&TS
11/04
.-O-16-D

A. RECORD INFORMATION

LOCATION Colusa 10%ers sheet #2	CITY Colusa	CP SYSTEM NO.	FM/PLM#
AREA 6	DIVISION Sacramento	DISTRICT Colusa	YEAR

B. PIPE-TO-SOIL POTENTIAL MEASUREMENTS (MILLIVOLTS)

TEST LOCATION	BASE DATA	LAST YR. READ		2009	2010	2011	2012						
1. Redacted		1006/2008		—	964	—	-1221						
2.		973/2008		service	cut off		—						
3.		993/2008		1003/09	—	—	[illegible]						
4.		921/2008		921/08	—	[illegible]	[illegible]	Address does not exist					
5.			1746	—	—	[illegible]	—						
6.			1738	—	—	—	—						
7.			1243	—	—	—	—						
8.					948	—	-1221						
DATA RECORDED BY			Redacted										
DATE (MONTH/DAY)			11/17/07		Re 4/16		R 9/10/12						

C. GALVANIC ANODE/RECTIFIER MEASUREMENTS

GALVANIC ANODE LOCATION OR RECTIFIER LOCATION	BASE DATA	LAST YR. READ	INTERFERENCE TEST RECTIFIER 1. _____ AMPS, 2. _____ AMPS, 3. _____ AMPS, 4. _____ AMPS VOLTS/AMPS										
1.													
2.													
3.													
4.													
5.													
DATA RECORDED BY													
DATE (MONTH/DAY)													

D. RECORD REVIEW

REVIEWED BY (REQUIRED BIMONTHLY)			Redacted										
DATE (MONTH/DAY)			1/3/08	8/2/09	Redact 4/21/10		9/10/12						

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Pacific Gas and Electric Company.

E. LOG OF CATHODIC PROTECTION MAINTENANCE WORK

GD&TS
11/04
FO-16-D

CP System No. _____

DATE	INITIALS	WORK DESCRIPTION
11/7/07	Redacted	Redacted Installed 2nd driveable anode.
11/7/07		Installed 2nd driveable anode
11/7/07		Installed 2nd driveable anode
5/25/11		Redacted P/S Read during PIC audit was
		-843mv Reread on 5/25/11 is -859mv.
9/16/12		Redacted Install driveable Anode. As left
		P/S read -1221mv.

Attachment 8

Pacific Gas and Electric Company®

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Work Ticket

Always put safety first!

Order No.: 41496235
Operation No.: 0010

Assigned Individuals: N/A			
Date: 04/29/2011 - 06/23/2011		**Work Location:** Redacted	
Description: LOW PIPE TO SOIL 10% ISOLATED SERV			
Headquarters: MRYSVLLE		**Job Owner:** Redacted	
MAT Code: FII - Maint-Corr-G Cath Prot		**Job Owner No.:** 530/634-6628	
Operation: 0010	**Notification:** 105317014	**LAN Id:**	**Date:** / **Act. Hrs.:**
Tech Id: N/A	**Location:** GD.CORR CORROSION	**Equip.:** N/A	**Oper. Desc.:** CONSTRUCTION
Latitude:			

Problem: Pipe to Soil less negative than -850 mV

CAUSE		ACTIVITY	
3rd Party Damage	MeterContact	Clear Contact	
Area Found Up	No Power	Other	
Bad Connections	No Test Lead	Re-Read	
Broken Wire	Other	Repair	
Depleted Anode	Rectifier (reset/replace fuse)	Replace	
Electrical Ground	Underground Contact		
Gas Construction	Uninsulated Meter Set		

POSTED

Comments:

Operation: 0020	**Notification:** 105317014	**LAN Id:**	**Date:** / **Act. Hrs.:**
Tech Id: N/A	**Location:** GD.CORR CORROSION	**Equip.:** N/A	**Oper. Desc.:** Post-Read ETS's
Latitude:			

Comments:

Operation: 0030	**Notification:** 105317014	**LAN Id:**	**Date:** / **Act. Hrs.:**
Tech Id: N/A	**Location:** GD.CORR CORROSION	**Equip.:** N/A	**Oper. Desc.:** ASSET INFORMATION
Latitude:			

Problem: Pipe to Soil less negative than -850 mV

CAUSE		ACTIVITY	
3rd Party Damage	MeterContact	Clear Contact	
Area Found Up	No Power	Other	
Bad Connections	No Test Lead	Re-Read	
Broken Wire	Other	Repair	
Depleted Anode	Rectifier (reset/replace fuse)	Replace	

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Pacific Gas and Electric Company®

Work Ticket

Always put safety first!

Electrical Ground	Underground Contact		
Gas Construction	Uninsulated Meter Set		

Comments:

Long Text:	* 05/24/2011 13:20:21 Redacted Phone Redacted
	* LOW PS READ. REPAIR AND REREAD. ISOLATED SERVICE. NEED TO INSTALL
	* DRIVEABLE ANODE.

Items:

[ ] *10 Percenter (<100')	[ ] *Pipe to Soil less negative than -850 mV	[ ] *Repair

Facility Report Reviewed? ☐ Yes ☐ No **Asset Registry Update Required?** ☐ Yes ☐ No

[ ] As-Built Attached

COMMENTS

Notification Number:	000105317014
Completion Date:	

I have reviewed and approve this Work Ticket and Facility Report (if applicable) for accuracy.

Supervisor Signature Redacted Date 5/26/11

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(2)

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CATHODIC PROTECTION CORRECTIVE WORK FORM
GAS TRANSMISSION & DISTRIBUTION

REFERENCE TROUBLESHOOTER/PRINOTIF #:	NOTIFICATION #:
10531342G	105317014
	ORDER #: 414962235

CREW

1. PROBLEM DESCRIPTION: Troubleshooting enter CPA # and location if available (e.g. TS 2117-H Brunswick & Pompey)
Repair enter CPA # and location if available (e.g. REPAIR 2417-B Brunswick & Pompey)

low P/S Read- Repair and Reread

2. STREET ADDRESS: Redacted

3. CITY: Colusa

4. CPA NO: Isolated Source

5. TECH ID:

6. PIPELINE NO:

7. COMMENTS (LONG TEXT): Need to install driveable cable

☐ CLEARANCE REQUIRED ☐ PERMIT REQUIRED ☐ ESTIMATING REQUIRED

Asset Registry does not need to be updated SE

GAS DISTRIBUTION		GAS TRANSMISSION	
EXPENSE	CAPITAL	EXPENSE	CAPITAL
8. ☒ GC NOTIFICATION (GAS DIST – CORRECTIVE/EXPENSE)	☐ GR NOTIFICATION (GAS DIST – PROJECT/CAPITAL)	☐ TC NOTIFICATION (GAS TRANS – CORRECTIVE/EXPENSE)	☐ TR NOTIFICATION (GAS TRANS – PROJECT/CAPITAL)
9. PRIORITY: ☒ B ☐ E	PRIORITY: ☐ B	PRIORITY: ☐ B ☐ E	PRIORITY: ☐ B
B =URGENT COMPLIANCE E =SCHEDULE COMPLIANCE -YR 0	B =URGENT COMPLIANCE	B =URGENT COMPLIANCE E =SCHEDULE COMPLIANCE -YR 0	B =URGENT COMPLIANCE
10. WORK TYPE CODE (GC): ☐ 579 – GD CP Area Up Repair ☐ 656 – GD CP Area Down T/S ☒ 658 – GD CP Area Down Repair ☐ 765 – GD CP Area Up T/S	WORK TYPE CODE (GR): ☐ 316 – GD CP Area Down Repair ☐ 349 – GD CP Area Up Repair	WORK TYPE CODE (TC): ☐ 561 – GT CP Area Up Repair ☐ 655 – GT CP Area Down T/S ☐ 657 – GT CP Area Down Repair	WORK TYPE CODE (TR): ☐ 317 – GT CP Area Down Repair ☐ 380 – GT CP Area Up Repair
11. CREW CLASS: ☒ T&R CP Mech. Only ☐ T&D Crew Needed GD_CNMN2	Duration Needed: 8 MIN / H ____ MIN / H	CREW CLASS: ☐ Troubleman Needed ED_TMAN1 ☐ GSR Needed GSR_1	Duration Needed: ____ MIN / H ____ MIN / H

12. READINGS:

Post-Read ETS		Post-Read Rectifiers		
1090cr	Pipe-To-Soil (mV): 1636		Volts:	Amps:
	Pipe-To-Soil (mV):		Volts:	Amps:
	Pipe-To-Soil (mV):		Volts:	Amps:

13. REPORTED BY (LAN ID): Redacted

14. EST. MATERIAL COST: $

15. REQUIRED START DATE: 4 / 29 / 11

16. REQUIRED END DATE: 5 / 29 / 11

17. WORK COMPLETED BY (TECH INSPECT BY)
LAN ID: Redacted

18. WORK COMPLETED ON (TECH INSPECT ON):
DATE: 5 / 25 / 11

19. ACTUAL LABOR/WRENCH HOURS: 5

20. SUPERVISOR

Task: REVW | Work Reviewed/Approved by Supervisor (LAN ID): | **Reviewed/Comp. Date:** / /

LOCAL HEADQUARTER CLERK

21. PLANT SECTION/COUNTY:

22. LOCATION/DIVISION: SE

23. MAIN WORK CENTER: Colusa

24. FUNCTIONAL LOCATION:

25. SAP EQUIPMENT #: GD. Phys. 2087.00 HS 4265461

SB_GT&S_0069247

Attachment 9

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Pacific Gas and Electric Company

Pole Mount/Pedestal Mount Rectifier Test and Site Evaluation Form

(Form must be completed in Non-erasable ink)

GT&D 01/09 FO-11.1-A

Record Information		
Address Redacted	City MARYSVILLE	CPA # 12M005
Rectifier # 120085	Rectifier Manufacturer GOODALL	Rectifier Serial # 84F2167
Area 6	Division SIERRA	District COLGATE

Check AC Switch Box, Rectifier and DC Riser, for AC before starting any work. If AC is found correct immediately, or de-energize Rectifier. Check box for all items inspected and Record AC/DC voltage and DC amperage measurements leave blank if not applicable. Note corrections or changes in Log on back of form. All defective items must be corrected within 30 days, initiate an action plan for items not corrected within 30 days.

	Items of Inspection					
AC Voltage	Verify Arc Flash sticker is installed	☑	☑	☑	☑	☐
	Test riser, switch box, and rectifier for AC	☑	☑	☑	☑	☐
	Check for continuity between the AC disconnect and the DC riser	☑	☑	☑	☑	☐
	Inspect paint condition of rectifier and AC disconnect switch enclosures	☑	☑	☑	☑	☐
	PVC service riser free of separations, defects, and securely strapped	☑	☑	☑	☑	☐
	Verify AC disconnect switch enclosure is locked	☑	☑	☑	☑	☐
	Verify AC disconnect switch handle can be and is locked in the "on" position	☑	☑	☑	☑	☐
	Inspect AC disconnect switch for any openings or exposed wires	☑	☑	☑	☑	☐
	Inspect AC disconnect switch for internal corrosion	☑	☑	☑	☑	☐
	Verify ground wire is connected to AC disconnect neutral bus	☑	☑	☑	☑	☐
	Verify bonding screw or jumper is installed in AC disconnect neutral bus	☑	☑	☑	☑	☐
	Verify bonding screw or jumper and AC disconnect switch box are common	☑	☑	☑	☑	☐
	Verify that the hot leg is fused and that the neutral wire is connected to the neutral bus	☑	☑	☑	☑	☐
	Record AC Breaker disconnect switch rating					
	Record Fusible AC disconnect switch rating					
	Record AC Voltage *(per Electric Rule 2 could range between 114 VAC – 126 VAC)*	120V	121V	122v	122v	
	Record AC Breaker or Fuse size *(fuse should be rated 10% above the maximum amp rating of rectifier or next highest size)*	6A	6A	6A	6A	
Ground Resistance	Verify ground rods are below grade and resistance is at or below 25 ohms	☑	☑	☑	☑	☐
	Record Ground Resistance as found *(in ohms)*	6.8	6.6	6.9	6.8	
	If Ground Resistance is above 25 ohms, verify integrity of all grounding connections	☐	☐	☐	☐	☐
	Ground resistance is above 25 ohms, 2nd ground rod is installed 6' apart	☐	☐	☐	☐	☐
	Record Ground Resistance as left *(in ohms)*	6.8	6.6	6.9	6.8	
Rectifier	Verify Rectifier Enclosure is locked	☑	☑	☑	☑	☐
	Verify PG&E Equipment Identification sticker is installed	☑	☑	☑	☑	☐
	Inspect Rectifier for any openings or exposed wires	☑	☑	☑	☑	☐
	Inspect rectifier for internal corrosion	☑	☑	☑	☑	☐
	Record Rectifier DC Amps Rating	5A	5A	5A	5A	
	Record Rectifier DC Volts Rating	40V	40V	40V	40V	
	Record Rectifier DC Amps	2.4A	2.4A	2.5A	2.5A	
	Record Rectifier DC Volts	7.0V	7.1V	12.6V	12.5V	
Record Review	RECORDED BY *(INITIALS)*	Redacted				
	RECORDED BY *(LAN ID)*					
	DATE *(MONTH/DAY)*	3/17/09	3/22/10	3/30/11	3/27/12	
	REVIEWED BY *(INITIALS)*	Redacted				
	REVIEWED BY *(LAN ID)*					
	DATE *(MONTH/DAY)*	3/26/09	3/31/10	4/15/11	5/22/12	